

Chem eStandards v2.0

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1.0 Introduction

IMPORTANT: These Chemical eStandards have been developed on a nonprofit basis through the Chemical eStandards Association by a coalition of interested companies in the chemical industry for the mutual benefit of the entire industry. The copyright to the Chemical eStandards is owned by the Association pursuant to a Memorandum of Understanding entered into with all contributing companies. However, as stated in the terms of “Standards Use” online, the Chemical eStandards may be copied and distributed only in the form published and copyrighted and no permission is granted for any change or modification to the Chemical eStandards. Subsequent management of the Chemical eStandards is expected to be undertaken by the Chemical Industry Data Exchange Association (CIDX), which will own the Chemical eStandards. Neither the Chemical eStandards Association, nor CIDX can guarantee the accuracy, completeness, efficacy, timeliness, or correct sequencing of the Chemical eStandards. Use of the Chemical eStandards is voluntary, and reliance on them should be undertaken only after an independent review by the user. The Association, CIDX, and their officers, directors, employees and agents assume no responsibility for consequences resulting from the use of or reliance on the Chemical eStandards. Neither the Association, nor CIDX is responsible for, and each expressly disclaims all liability for, damage or loss of any kind arising out of the use of the standards, including but not limited to direct, indirect, consequential, or special damages of any type or from any copyright or patent infringement. No guarantees or warranties, including, but no limited to, any express or implied warranties of merchantability or fitness for a particular use or purpose, are made by the Association or CIDX in connection with the Chemical eStandards.

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1.1 Overview

The advent of what has come to be called “eBusiness” brings with it a large promise for the chemical industry. In an effort initiated by BASF, Dow, and DuPont in July 2000, the creation of the Chem eStandards (also known as ChemXML™) endeavors to help companies in the chemical industry adopt common communication principles, which reduces the overall cost of XML-based integration projects and enables eBusiness gains to be more fully realized. The Chem eStandards have been developed for use by the chemical industry for exchanging data Business-to-Business (B2B) and Business-to-Marketplace. There is substantial benefit to be gained by developing and adopting standards-based data interchanges that can be applied to the entire chemicals trading community. This belief has been validated with many of the chemical industry participants, including chemical manufacturers, distributors, chemical industry Marketplaces, and software solution providers, throughout the design and development of this standard.

Chem eStandards was developed by subject matter experts from various organizations within the chemical industry. The intent was to develop an XML-based data interchange standard that is freely available for broad and appropriate use, without royalty, by all chemical industry participants. The intent was also to create standards that were leveragable throughout the growing on-line chemicals trading network: manufacturers, distributors, logistics providers, financial institutions, and other on-line offerings such as Marketplaces, exchanges, and industry consortiums.

This version of the Chem eStandards (v2.0) has been endorsed and is supported by the Chemical Industry Data Exchange (CIDX) to ensure that these standards keep pace with the needs of the chemical industry. CIDX is the owner and maintenance facility for these XML-based standards for the chemical industry.

The intent of this version of the Chem eStandards is to identify and define the most common transactions that are currently, or soon will be, conducted on-line via the Internet and enabled with Internet-based technologies. However, the transactions that are defined in this document are not meant to be considered complete. Future Chem eStandards, coupled with enhancements to those provided in this version, will be developed and released in future versions of this document. It is the responsibility of the CIDX organization, working with the various members of the chemical industry, to identify the next set of transactions that require definition, to create the necessary documentation, and to publish and support them for the chemical industry.

1.1 Overview, continued

Interpretation of Specific Words in this Document

Several words are used within this document that are intended to be interpreted in a particular way. The following table lists the specific words and their meanings as they pertain to the Chem eStandards:

MUST, REQUIRED, or SHALL	These words mean that the definition is an absolute requirement of the specification.
MUST NOT or SHALL NOT, or NOT REQUIRED	These phrases mean that the definition is an absolute prohibition of the specification.
SHOULD or RECOMMENDED	These words mean that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.
SHOULD NOT or NOT RECOMMENDED	These phrases mean that there may exist valid reasons in particular circumstances, when the particular behavior is acceptable or even useful. However, the full implication should be understood and the case carefully weighed before implementing any behavior described with this label.

1.2 Scope

This version of the Chem eStandards document describes 47 business transactions that support and enable various general business processing models for the chemical industry. Specifically, the Chem eStandards document describes data interchange standards in the following technical and functional areas:

Envelope & Security

The Envelope and Security defines the requirements for communication, message enveloping, and security for the implementation of all Chem eStandards transactions defined in this document.

Customer/Company Information

Includes data interchange standards necessary to support the sharing of customer/company information and data between Buyers, Sellers, and Marketplaces.

Product Catalogs/RFQ

Includes data interchange standards necessary to support the promoting, selling, selecting and buying of products and related services.

Purchase Orders

Includes data interchange standards necessary to support the transmission of data regarding purchase orders for products and related services.

1.2 Scope, continued

Logistics

Includes data interchange standards necessary to enable the automated scheduling and transport of chemicals, plastics products, and related services.

Financials

Includes data interchange standards necessary to support the invoicing and payment processes between Marketplaces, participating companies, and financial institutions.

Forecasting

Includes data interchange standards necessary to support B2B and Business-to-Marketplace Forecasting, collaborative planning, and vendor-managed inventory (VMI) for North America and Europe.

Exchange Interactions

Includes data interchange standards necessary to support the key interactions involving Buyers, Sellers, and Marketplaces. This not only includes Buyer-to-Marketplace and Seller-to-Marketplace transactions, but also Marketplace-to-Marketplace transactions.

1.2.1 Business Transactions

The 47 business transactions included and described in this document are:

Customer/Company Information

Business Transaction	Description
Qualification Request	Notification of a Buyer, from a Marketplace, to one or more Sellers.
Qualification Response	Seller's response to the Marketplace, for a specific (Buyer) Qualification Request.

1.2.1 Business Transactions, continued

Product Catalogs/RFQ

Business Transaction	Description
Request For Quote	Used to request terms different from those included in the Product Catalog.
Product Catalog Update	Updates the entries in a Product Catalog. This transaction adds, updates, or deletes whole products or their attributes and related information (e.g., specifications, descriptions, and prices).
Customer Specific Catalog Update	Updates the entries in a Customer Specific Catalog. This transaction adds, updates or deletes whole products or their related pricing information for a specified Buyer at an item/location level.

Purchase Orders

Business Transaction	Description
Order Create	The Order Create Transaction takes place between the Marketplace or Buyer and the Seller(s). It enables new purchase order information to be communicated to the Seller.
Order Response	The Order Response Transaction is initiated by the Seller to communicate to the Buyer (either directly or through a Marketplace) the Seller's agreement to supply a specific amount of product, at a specific price, according to set pricing terms, on an agreed-upon date, using agreed-upon transportation arrangements.
Order Status Response	The Order Status Response Transaction is initiated by the Seller to communicate to the Buyer (either directly or through a Marketplace) to identify the current status of orders that have been previously placed.
Order Status Request	The Order Status Request Transaction is initiated by a Buyer (either directly or through a Marketplace) to inquire about the status of an order.
Order Change	The Order Change Transaction is initiated by a Buyer (either directly or through a Marketplace) to request that an existing order be changed in specific ways.
Order Cancel	The Order Cancel Transaction is initiated by a Buyer (either directly or through a Marketplace) to request that an existing order be cancelled.

1.2.1 Business Transactions, continued

Purchase Orders, continued

Business Transaction	Description
Order Cancel Response	The Order Cancel Response Transaction is initiated by a Seller to communicate to a Buyer (either directly or through a Marketplace) that an "Order Cancel" transaction has been received and has been accepted or rejected by the Seller's order processing system.

Logistics

Business Transaction	Description
Ship Notice	The Ship Notice Transaction is used to inform the receiver of a shipment that has been shipped.
Shipment Status	The Shipment Status Transaction is used to report the whereabouts of a tendered and accepted shipment. The information that is transmitted indicates the location of the shipment (e.g., In Transit, Delivered, etc.).
Freight Bill	The Freight Bill Transaction is used to charge the Bill To party the cost of transport charges incurred. This transaction includes charges for actual transportation along with additional charges, called accessorial charges (e.g., damage, detention, fuel surcharge, etc.)
Load Tender Motor	The Load Tender Motor Transaction is used to offer the transport of a specific shipment from place of origin to final destination. The information that is transmitted contains all shipment information (e.g., product description including hazardous classification, if applicable, weight, dates to pickup and deliver, etc.).
Load Tender Rail	The Load Tender Rail Transaction is used to offer the transport of a specific rail shipment from place of origin to final destination. The information that is transmitted contains all shipment information (e.g., rail car number, product description including hazardous classification codes, etc.).
Load Tender Ocean	The Load Tender Ocean Transaction is used to offer the transport of a specific export shipment from place of origin to final destination. The information transmitted contains all shipment information (e.g., container number, product description, etc.).

1.2.1 Business Transactions, continued

Logistics, continued

Business Transaction	Description
Load Tender Response	The Load Tender Response Transaction is used to respond to an offered load tender transaction. The information that is transmitted either accepts or rejects the offer to transport.
Carrier Weights	The Carrier Weights Transaction is used to convey weights and scale information between interested parties.

Financials

Business Transaction	Description
Invoice	The Seller electronically initiates the Invoice Transaction either directly to the Buyer, through the financial institution, or through the Marketplace, to request payment from a Buyer.
Payment	The Buyer electronically initiates a Payment Transaction via a financial institution to satisfy a Seller's invoice either directly or through the Marketplace.
Payment Detail	The Buyer electronically initiates a Payment Detail Transaction to provide Seller with detailed information to reconcile invoice(s) either directly or through the Marketplace.
Payment Response	The financial institution initiates a Payment Response Transaction to notify the Buyer that a payment file has been either received and validated or contains errors that need to be corrected.

Forecasting

Business Transaction	Description
Demand Forecast	Seller sends forecast and forecast updates to the Buyer; Buyer sends forecast and forecast updates to Seller.
Demand Forecast Response	Seller sends functional response to the Buyer to confirm receipt of forecast and receipt of forecast updates; Buyer sends functional response to Seller to confirm receipt of forecast and receipt of forecast updates.
Supply Plan	Seller sends supply plan to Buyer to initiate a collaborative planning process.

1.2.1 Business Transactions, continued

Forecasting, continued

Business Transaction	Description
Demand Plan	Buyer sends demand plan to Seller to initiate a collaborative planning process.
Supply Plan Response	Buyer sends functional response to Seller to confirm receipt of supply plan.
Demand Plan Response	Seller sends functional response to Buyer to confirm receipt of demand plan.
Replenishment Proposal Request	Seller sends proposed replenishment to Buyer for approval before creating and executing the replenishment order.
Replenishment Proposal Response	Buyer sends response to Seller to approve creation and execution of a replenishment order.
Replenishment Proposal Change	Buyer sends replenishment proposal change to Seller.
Replenishment Proposal Cancel	Buyer sends replenishment proposal cancellation to Seller.
Inventory Actual Usage	Buyer sends inventory position and/or actual usage to Seller.
Inventory Actual Usage Response	Seller sends functional response to Buyer to confirm receipt of inventory position and actual usage.
Delivery Receipt	Buyer sends to Seller to notify receipt of delivery.
Delivery Receipt Response	Seller sends functional response to Buyer to confirm receipt of delivery receipt.

Exchange Interactions

Business Transaction	Description
Posting Create	The Posting Create Transaction is used to create a buy or sell posting on a Marketplace. It contains both line-item detail for one or more line items and general instructions that apply to all of the line items. Posting Create Transactions are sent to Marketplaces only, and may be used by Buyers, Sellers, or other Marketplaces.
Posting Response	The Posting Response Transaction is used to communicate the acceptance or rejection of Posting Create and Posting Change requests. Posting Response messages are only sent by Marketplaces and are sent to the Buyers, Sellers, or other Marketplaces who initiate the Posting Create or Posting Change requests.

1.2.1 Business Transactions, continued

Exchange Interactions, continued

Business Transaction	Description
Posting Cancel	The Posting Cancel Transaction is used to request that a posting and all of its line items be removed and rendered inactive. The request will have no impact on individual line items that have already been deleted by a previous Posting Change request or accepted by a previous Posting Accept Transaction. Posting Cancel requests are sent to Marketplaces only, and may be sent by Buyers, Sellers, or other Marketplaces.
Posting Cancel Response	The Posting Cancel Response Transaction is used to communicate the success or failure of a Posting Cancel. Posting Cancel Response messages are only sent by Marketplaces and are sent to Buyers, Sellers, or other Marketplaces who initiate the Posting Cancel requests.
Posting Change	The Posting Change Transaction is used to request changes to an existing posting. Change requests may be against specific line items or they may relate to the global, posting-level parameters that impact all of the posting's line items. Line item change requests include add, modify, and delete operations. Posting Change Transactions are sent to Marketplaces only, and may be used by Buyers, Sellers, or other Marketplaces.
Posting Status Request	The Posting Status Request Transaction is used to inquire about the status of a specific posting, including the status of its individual line-items. Posting Status Requests are sent to Marketplaces only, and may be sent by Buyers, Seller, or other Marketplaces.
Posting Status Response	The Posting Status Response Transaction is used to communicate the status of a posting and its individual line items. Although the status of a posting and its line items may be particular to each Marketplace, in general a posting may be active or inactive. If a posting is active, its line items may generally be active, deleted, or accepted. Posting Status Response messages are only sent by Marketplaces. They may be sent to the Buyers, Sellers, or other Marketplaces who initiate Posting Status Requests, or they may also be "pushed" to Buyers, Sellers, and other Marketplaces without a prior Posting Status Request.

1.2.1 Business Transactions, continued

Exchange Interactions, continued

Business Transaction	Description
Posting Accept	The Posting Accept Transaction is used to indicate that a Buyer or Seller wishes to accept one or more line items associated with a posting. The line items are not considered to be accepted, however, until a confirmation is received in a subsequent Posting Accept Response. Posting Accept messages are sent to Marketplaces only, and may be sent by Buyers, Sellers, or other Marketplaces.
Posting Accept Response	The Posting Accept Response Transaction is used to communicate the acceptance or rejection of the Posting Accept. Posting Accept Response messages are only sent by Marketplaces and are sent to Buyers, Sellers, or other Marketplaces who initiate the Posting Accept requests.

1.3 General Principles and Philosophies

The following operating principles and philosophies apply to this document:

- No ownership; Chem eStandards is freely available for appropriate use without royalty for acquisition or application.
- Adopt and Adapt; whenever possible, leverage work from other industries and endorse if appropriate; position for cross-industry endorsement, incorporation/collaboration.
- Standardize data content not business processes; Chem eStandards were built to support multiple business models.
- Platform independent; Chem eStandards should not require the specific use of proprietary hardware or software.

1.4 Key Directional Decisions

This section of the Introduction summarizes and describes the key decisions that have been made throughout the design and development of the Chem eStandards that have had an impact on the direction of the initiative, and may continue to have an impact on the standards moving forward.

1.4.1 XML or EDI

EDI (Electronic Data Interchange) met important criteria when it was introduced to the chemical industry. These criteria included:

- Bandwidth efficiency - a valuable trade-off with parsing costs, when telecommunications costs were high and when bandwidth simply was not available in many situations
- Standard syntax – when there was no standardized means of expressing structured data
- Standardized structure and dictionary – for interpreting the information exchanged

1.4.1 XML or EDI, continued

Since then, telecommunications capabilities have “exploded” and continue to grow. While bandwidth efficiency will always be a constraint of data exchange, the limits of the past have been significantly reduced. The overhead of formatting data using XML is offset by its flexibility and richness for data expression. Also, XML has a very low cost of entry. Products for working with XML are generally very inexpensive or free.

Enterprise Application Integration (EAI) and B2B product vendors alike who have created XML adapters or integrated native XML capabilities into their offerings recognize this. As other technology vendors see the value of XML, we see support for it in database and messaging technologies. XML is becoming the preferred format for data exchange (and even storage in some cases). Lower entry costs and non-proprietary technologies with unrestricted access will enable all groups to easily adopt the XML-based Chem eStandards.

While XML is becoming the preferred format for what would have previously been accomplished by EDI, data needs have not changed greatly (Some changes have come from the new business models enabled by the Internet and XML). As a result, the XML messages used in the Chem eStandards have characteristics that some may consider EDI-like and not taking full advantage of the capabilities of XML. This is by design, not accident, and is consistent with XML created for similar purposes by other groups (cXML, RosettaNet, etc.).

1.4.2 Adopt or Build?

Numerous emerging XML standards were evaluated prior to creating anything new. It was hoped that something would exist that could be simply adopted, rather than adapted. Unfortunately, nothing that currently exists fully meets the needs of the chemical industry. Some of the issues associated with these various initiatives include:

- Vendor neutrality – There are a number of efforts that are sponsored or provided by technology vendors that directly support proprietary products and solutions. The Chem eStandards must not require or favor the use of any specific product(s) or solutions.
- Failure to meet chemical industry needs – While there are many initiatives for XML data exchange, none include all the data required for chemicals industry transactions, particularly for the handling of hazardous materials.
- Lack of breadth – Most of the initiatives to date have not produced a set of transactions that cover the full set of business transactions needed by the chemical industry.
- Time to market – Waiting for cross-industry standards is not an option. A solution is needed for chemical industry Marketplaces being created today. It will take years before cross-industry standards emerge (if ever). It is hoped that CIDX will evaluate and participate in any such cross-industry standardization efforts.

1.4.3 RosettaNet™

A primary objective of the Chem eStandards is to meet the chemical industry’s need for a broadly accepted, XML-based data exchange standard while, at the same time, providing an opportunity for potential cross-industry convergence. The Chem eStandards project team decided the best way to do this was to leverage the work of a well-established initiative in the development of XML-based specifications, one that has specifications in active use and has strong potential to influence the evolution and convergence of XML standards. The organization selected was RosettaNet.

1.4.3 RosettaNet, continued

Chem eStandards leverage the transport, envelope and security aspects of RosettaNet Implementation Framework (RNIF) version 1.1, as defined on the RosettaNet website. RNIF is the technical basis for the Chem eStandards because it includes specifications to ensure the secure and reliable delivery of transaction data. Specifically, RNIF requires use of digital certificates within an HTTPS framework, which is the mechanism by which credit card and other personal information is transmitted on the Internet today. At this time, only the RosettaNet specification includes these key capabilities, which ensure secure, reliable delivery of XML data.

At the present time, XML development is very dynamic and there are numerous competing XML initiatives. Some of these overlap and compete while others are entirely independent. A partial list of these efforts includes:

- Oasis
- OAG
- RosettaNet
- XEDI
- BizTalk
- AIG
- EbXML
- CXML
- UDDI
- SOAP
- XAML

It is not clear how these initiatives will consolidate and which will survive (and of those that survive, what form they will have). At the same time, chemical industry Marketplaces are emerging that need to exchange data between Buyers, Sellers and Marketplaces. Waiting for the eventual consolidation of XML standards is not an option.

The creators of the Chem eStandards chose to adopt RosettaNet as a starting point. RosettaNet is already in production use by dozens of companies in the electronics and high-tech industry and has proven that it works, which cannot be said of the other aforementioned initiatives. The automotive industry, using similar reasoning, has also begun work with RosettaNet. While it is unknown what direction XML will take, it is likely that RosettaNet will have some role in the eventual XML technology consolidation.

While RosettaNet has technical features that meet the needs of the chemicals industry, the specifications for the business data exchanged by the RosettaNet transactions do not. The Chem eStandards used the RosettaNet data specification and code tables as a starting point, but made additions and changes based on the expertise of subject matter experts of the participating companies. The participants researched other industry initiatives for best practices, including all mentioned above, and leveraged their experience in EDI. The specifications of the Chem eStandards build on current practices for data exchange of the participants while anticipating the capabilities needed in the future.

1.4.4 CIDX

The CIDX organization is the natural body to represent the needs of the chemical industry, and has facilitated the use of automated data exchange between chemical companies. CIDX has transformed its organization to operate as a standards organization, and will support and maintain the Chem eStandards.

1.4.4 CIDX, continued

Standards nearly always develop first within a company, followed by the industry, and finally across industries. The state of XML at the time of this publication is that nearly all initiatives are intra-company, while some cross-industry initiatives are beginning to form.

Should the Chem eStandards eventually move into, or are adopted by, another standards organization, CIDX can continue to be an advocate of the Chem eStandards, ensuring that the needs of the chemical industry are represented moving forward.

1.5 Chem eStandards Design Approach

The creation of the Chem eStandards required the development of a number of conventions for the content and structures of the data models/messages that it describes. These conventions are described in detail in the following three areas:

- Message Definition
- Message Responses
- Message Structure
- Message Elements

1.5.1 Message Definition

Chem eStandards chose to create individual messages for every business transaction, rather than using the same message for multiple purposes. There are two facets of this guiding principle:

1. Individual messages are intended to support only one business function. The message should not have more than one functional or business meaning based on the value of a code contained within the message structure (e.g., a separate message should exist for an order create and an order change).
2. Data values within individual messages that support a single business function can modify the nature of the transaction being performed (e.g., an Order Create transaction supports a regular order versus as well as a blanket order, based on data values).

The key advantages and disadvantages of this approach are summarized in the following table:

Advantages	Disadvantages
<ul style="list-style-type: none"> • More clearly defined use of Chem eStandards transactions • Reduces the number of optional fields, which reduces the amount of negotiations involved in trying to apply the Chem eStandards properly • Ease of implementing specific solutions • Transaction independence leads to greater flexibility for modifications over time 	<ul style="list-style-type: none"> • A large number of business transaction models must be created, however, given the correct set of guidelines/principles, this is considered a controllable issue.

1.5.1 Message Definition, continued

Note: The Chem eStandards design teams had the freedom to do what was appropriate for their defined business processes and transactions. For example, the Order Team (from the Phase 1 effort) needed to create separate transactions for creating, changing, and deleting an order. However, this approach was not necessary for some of the other design teams.

Messages names are all nouns. Where several words have been put together to create a message name, those words have been put together so that every word is a noun (vs. a verb).

Not Used	Used
<ul style="list-style-type: none"> • Create Order • Change Order • Accept Posting 	<ul style="list-style-type: none"> • Order Create • Order Change • Posting Accept

Some transactions only require a single message to be complete. These messages do not require a reply messages of any sort. Examples include the “Request for Quote” and “Product Catalog Update” messages.

In other cases, messages require a reply. In these cases, the reply message has the word “Response” appended to it. For example, a “Payment” message causes a “Payment Response” message to be returned. The two are part of a two-part exchange of information. Both parts are required for the transaction to be considered complete. In these transactions, the original message is the meat of the transaction and the response provides information that may be used by the sender for tracking or other purposes.

There are other messages where the initiator of a two-message transaction is more appropriately considered a request (such as an informational request). In these transactions, the response message is the meat of the transaction. In these cases, the original message has the word “Request” appended to it. For example, “Order Status Request,” is replied to with an “Order Status” message.

1.5.2 Message Responses

The Chem eStandards discusses two types of message responses: technical responses and transaction responses.

Technical responses are returned to the source system from the destination system upon the delivery of messages from source to destination. Business Partner software systems must follow the specifications defined in the Envelope & Security section (Section 2.0), and are responsible for ensuring a technical response is returned for all received messages.

Transaction responses are unique messages used as part of a business process as a reply or response to some requested action. Not all messages are required to have a transactional responses. For example, the Order Create message requires a transactional response in the form of the Order Response (see Section 5.0), while the Request For Quote message does not (see Section 4.0).

1.5.3 Message Structure

Each Chem eStandards message is an XML document conforming to a specific Document Type Definition (DTD) described in detail in this standard for the transaction being executed. The DTDs for each of these transactions are described throughout this document, and are included in the Appendix. **Should any discrepancies exist between this narrative and the DTD that describes a particular message, the DTD should be considered correct.**

An XML specification describes structured data. XML document elements may either contain other data elements or data (or both). The approach used in the Chem eStandards is that message elements may only contain other elements or data. In addition, message elements may contain attributes that describe the data within the message element.

Each Chem eStandards message payload (business content) begins with a root element with the same name as the transaction or message itself. For example, the root element of the Order Create message is named Order Create. Below this root element, every message contains a Header and a Body structure. The Header structure is common across all messages, while the Body element may have any/all of the following three elements: Properties, Partners, and Details.

Use of a common header and a body message structure was evaluated prior to selecting this particular approach for Chem eStandards messages. It is common for data to have metadata that assists in its handling or disposition. Other XML specifications that have chosen to use a header and body structure include RosettaNet, cXML (Ariba), and xCML (CommerceOne). Many data exchange specifications also include a header/body structure of one form or another.

Note: At the time of creation of this version of the Chem eStandards, the World-Wide-Web Consortium (W3C) has not yet fully approved XML Schemas to replace DTDs as the preferred structure and method of data transfer. In the future, the CIDX organization may choose to replace the Chem eStandards DTDs with an equivalent set of XML Schemas. Further, the approximate timeframe for this transition was unknown at the time of this publication.

The Header structure of the Chem eStandards contains information on the disposition of the message itself, but does not contain specifics on the data exchanged. The Body section contains the message-specific metadata in three sections: Properties, Partners and Details. Each of these structures are optional, and provide data and information to be used in the data exchange. Properties contain message meta-data, Partners contains information about the parties involved in the data exchange, and Details contains the remainder of the message data. In each of these transactions, these names are prefixed with the name of the transaction in which they occur. These elements are functionally the same, but have been given unique names to ensure their uniqueness.

The Properties, Partners, and Details message structures contain further elements (which may, in turn, contain further elements) and data values as needed to fully represent the data of the message.

1.5.3 Message Structure, continued

The following diagram illustrates the message structure of the Chem eStandards:

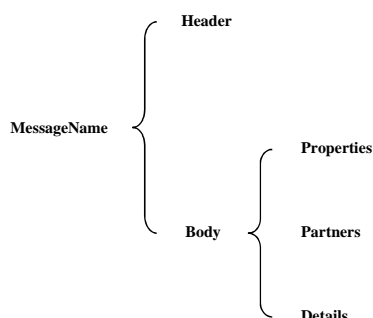


Figure 1.5.3.a: Chem eStandards message payload structure

The Chem eStandards approach is to create structures that match the most natural relationship amongst the data elements in the messages.

The Chem eStandards message structure:

- Facilitates standardization amongst other standards and future extensions
- Organizes information into reusable components to facilitate change management
- Structures information in the message to facilitate understanding
- Takes advantage of XML data structuring capabilities

The above message structure is delivered within a RosettaNet format enveloping structure, the details of which are provided by RosettaNet and discussed further in Section 2.0 of this document.

1.5.4 Message Elements

The approach used in the definition of Chem eStandards message data elements is:

- When there is a match between a RosettaNet message and this standard, adopt RosettaNet element names and data structures.
- When new element names are required, follow the RosettaNet naming convention of:
 - creating element names comprised of one to several words
 - using letters only; no underscores, hyphens or other non-letter characters
 - using upper case for letters that begin words, and lower case for all other letters
 - using singular tense
 - avoiding abbreviations and acronyms
 - not using numbers in names (e.g., AddressLine1, AddressLine2, etc.)
- The majority of message data elements do not have attributes. Elements are used whenever the data being delivered is “persistent” (not used for the delivery of interpretation of data transferred).
- Attributes are only used where they are considered to element metadata, such as the Version tag for the overall message, or Type for Telephone Number (which may be work number, mobile, etc.).

1.5.4 Message Elements, continued

- Attributes follow the same naming convention as elements.
- Where possible, data elements are specified to have values based on industry standard code sources (e.g., ISO 8601 or ANSI ASC X12 335). The definitions and code sources of all elements have been reused when elements have been borrowed from existing standards.

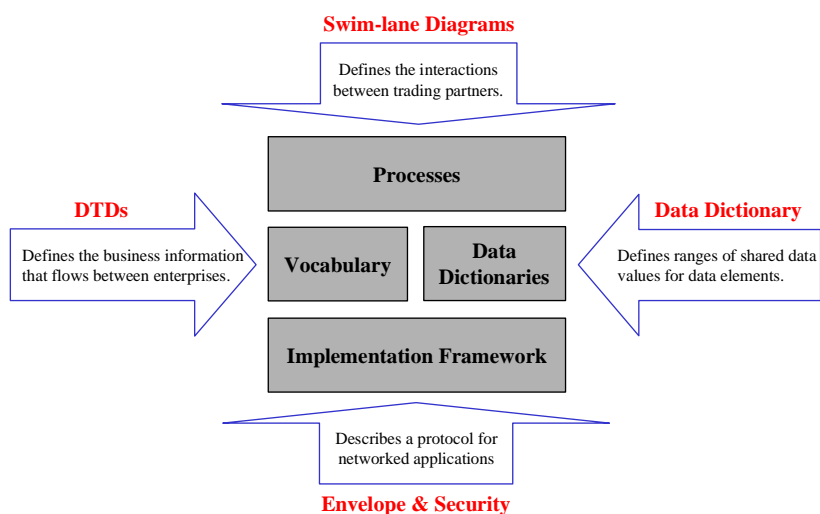
All message data elements are part of a common Data Dictionary, which is located in the Appendix, with Chem eStandards level scope. There are no elements that are private to a particular message.

1.6 Structure of the Chem eStandards Document

The structure of the Chem eStandards document:

- Closely aligns to approaches taken by other XML standards across vertical industries
- Eases the use of reading and using the Chem eStandards
- Better leverages XML capabilities and syntax
- Organizes the data in a logical manner

The following diagram illustrates the four overarching components that make up a complete standard specification:



¹ Source: *Creating a Standard* (webMethods, Inc., 2000)

1.6.1 Envelope & Security

The Envelope & Security section of this document, Section 2.0, defines the requirements for communication, message enveloping, and security for the implementation of all Chem eStandards transactions. The user should begin with a thorough understanding of the Envelope & Security section of the Chem eStandards, which provides the technical foundation upon which to apply and implement the various Chem eStandards transactions.

1.6.2 Business Transactions

Sections 3.0 through 9.0 of the Chem eStandards document include detailed definitions and descriptions of the various Business Transactions. These sections contain high-level definitions of the transactions, listings of key scope and business model assumptions, swim-lane diagrams (business processes) and detailed descriptions, data model graphics and descriptions, data element tables with implementation-related annotations, links to transaction Document Type Definitions (DTDs), and example markups. As discussed above, the following Business Transactions are included in this publication:

Section 3.0 – Customer

Section 4.0 – Catalog/RFQ

Section 5.0 – Purchase Order

Section 6.0 – Logistics

Section 7.0 – Financials

Section 8.0 – Forecasting

Section 9.0 – Exchange Interactions

1.6.3 Common Data Structures

Common data structures that exist in multiple Chem eStandards transactions are included in Appendix F – Common Data Elements. Data models and detailed descriptions of these common data structures do not appear in the various Transaction sections of this document.

1.6.4 Data Dictionary

A common Data Dictionary that supports all Chem eStandards transactions is located in Appendix D. The Data Dictionary contains detailed descriptions of all Chem eStandards data structures and elements. The following detailed information is provided for each structure or element:

- Definition
- Data Type
- Data Length
- Sample Data
- Code List Name
- Code List
- Synonyms

1.6.5 Document Type Definitions (DTDs)

The current document format for Chem eStandards XML messages is the Document Type Definition (DTD). DTDs for all Chem eStandards transactions are included in ASCII text format in Appendix E. Individual Chem eStandards transaction DTDs are also be available for download on the CIDX website at www.cidx.org.

1.7 General Implementation Guidelines

This section provides an overview of the information contained within the Chem eStandards to assist with the implementation of an XML interface or translation engine in accordance with the specifications provided within this document. The Implementation Guide content contained within this document is provided for the following reasons:

- To assist the user in finding the appropriate Chem eStandards transaction format for a given business process.
- To provide detailed information regarding changes in relation to previous releases of the Chem eStandards.
- To provide a detailed and precise description of the transaction formats, structures, data elements, attributes, data types and referenced code lists, including annotations and special instruction on the intended use of specific data structures, elements, and attributes.
- To help the user understand the content and format of a specific transaction by providing sample data and example markups.

1.7.1 Implementation Requirements

The following are general implementation requirements for the Chem eStandards. Additional details are provided in the Envelope & Security section of this document (see Section 2.0).

- All enveloping information must be included and passed through by all data delivery mechanisms. The Chem eStandards enveloping information includes, among other items, transactional response data required by source and destination systems. Information in the envelope structure may be ignored by components of a particular implementation that do not require the information it contains, but the envelope must be delivered intact from source to destination.
- All implementations must honor the Chem eStandards message and data specifications contained in this document. Messages exchanged by systems that implement this standard must be well-formed XML that can be validated against the DTD appropriate for the information being exchanged.
- Within several Chem eStandards transactions, valid values for message data elements and attributes are derived from various reference code lists. The sources for these code lists, where indicated, are the only source that should be used within Chem eStandards messages. In several instances, the code source is referenced as RosettaNet + additional codes as extended and defined by the Chem eStandards. Under these circumstances, both RosettaNet and this document must be used as code sources (see Section 2.0). Hopefully, the aforementioned RosettaNet code extensions required by the Chem eStandards will be incorporated into the RosettaNet standard itself at a future date.

1.7.2 Implementation Recommendations

Since it serves as the technical foundation for Chem eStandards, a thorough understanding of the RosettaNet specifications, its goals, and implementations is strongly recommended for a successful implementation of the Chem eStandards. RNIF was adopted as the basis for enveloping and security. Many of the Chem eStandards' data structures refer to RNIF as a proven specification in more than 50 production implementations. The Envelope & Security section of this document (Section 2.0) provides additional guidance on implementation details that extend beyond the current RNIF.

1.7.3 How to Use this Document as an Implementation Guide

The design and development of the Chem eStandards is based on the specific business requirements and common business processes within the chemical industry (i.e., all Chem eStandards transactions defined within this document are associated with a specific business process). Therefore, in order to find the appropriate transaction and its corresponding message format for a given business process, the following steps should be taken:

- Define and document a model of your required business processes (e.g., preferably in the form of a Swim-lane Diagram as illustrated in the Business Transaction sections of this document).
- Identify the Business Transaction that best match your documented business processes.
- Identify the specific Chem eStandards transaction(s) within the Business Transaction that enable your business processes and expected scenarios within your business model. For every Chem eStandards transaction the following information is included in this document:
 - Graphical illustration of the Document Type Definitions (DTDs) showing the structure and data elements of each transaction. The DTDs are also included in ASCII format in Appendix E.
 - Detailed information and descriptions of each transaction data element. The description, data type, data length, code list, attributes, synonyms and sample data for each data elements are included in the Data Dictionary. In addition, transaction-specific notes and annotations for selected data elements are included in tabular format within the various sections of the document that describe the Chem eStandards transactions in detail.
 - Example Markups (at least one per transaction) that apply to (i.e., linked to) common or expected business scenarios within B2B or Business-to-Marketplace models. Note: the Example Markups contained in the various Business Transaction sections do not illustrate the Envelope portion of the transaction (as defined by RosettaNet). Example Markups for the Envelope are included in the Envelope & Security section of this document (see Section 2.0).
 - Information regarding specific changes in relation to previous releases of the Chem eStandards.
- Obtain the appropriate sections of the Chem eStandards, which are downloadable by section, free of charge, at www.cidx.org. The following are the recommended sections of the Chem eStandards publication to download in order to ensure a more successful implementation of Chem eStandards transactions.
 - Section 1.0 - Introduction
 - Section 2.0 - Envelope & Security
 - Business Transaction sections that are relevant for your business model (Sections 3.0 - 9.0)
 - Appendices, specifically Common Data Structures, Data Dictionary, Document Type Definitions (DTDs), and Chem eStandards Compliance Criteria

1.7.3 How to Use this Document as an Implementation Guide, continued

- Download the appropriate DTD files (also available at www.cidx.org) for your selected transaction(s). The DTDs will be required to validate the XML messages that will be created and utilized during your implementation process.

1.8 Backward Compatibility

ChemXML™ has been created to reduce the overall costs to the chemical industry associated with conducting business via the Internet. As such, the ability of future releases of ChemXML™ to be “backward compatible” (i.e., production implementations of past releases of ChemXML™ can be “rolled forward” into future releases with minimal impact during runtime execution) has been an important consideration throughout the development of the Chem eStandards.

It has been determined that ChemXML™ 2.0 will not be backward compatible with ChemXML™ 1.0, which was published in August, 2000. This is the case for several reasons:

- ChemXML™ 1.0 was developed based on a set of transactions, and their associated business requirements, as opposed to being driven by data element requirements. Because of this, ChemXML™ 1.0 did not contain the core elements and structures required for the future functional requirements as dictated by ChemXML™ 2.0.
- As the scope of ChemXML™ was expanded, the need for common structures across transactions became more apparent; the Chem eStandards development team concluded that common structures, although changing many data element names from ChemXML™ 1.0, would simplify implementations, future support, and aid in understanding the intended functionality and inter-relationships of the XML messages.
- As of 4Q00, ChemXML™ 1.0 was not in production use by any chemical company. Therefore, it was determined that making changes to improve the Chem eStandards had minimal impact to the industry at the present time.

After deciding to create ChemXML™ 2.0, and not be concerned with backward compatibility to ChemXML™ 1.0, the Chem eStandards team began formulating a strategy for backward compatibility. This has become increasingly important due to the number of chemical manufacturers, Marketplaces, and industries that have committed to endorse and use Chem eStandards. Keeping this in mind, in order to develop the strategy, the considerations were as follows:

- What were the backward compatibility strategies of other XML-based standards, as well as the historical efforts of EDI and when and why did standards become backward compatible?
- What is an acceptable balance between allowing the Chem eStandards to be enhanced to meet the demands of the industry versus the cost impact of having multiple versions of a standard available to the chemical industry and those that may use ChemXML™?

1.8.1 Backward Compatibility Strategies Outside of Chem eStandards

The table below illustrates the compatibility strategies of other XML-based standards and EDI:

Effort	Type	Years in Production	Backwards Compatible ?	Years before Standard became Backwards Compatible	Backwards Compatibility Strategy
RosettaNet	XML	2-3	No	N/A	
ANSI X12	EDI	20	Yes	4-8	X12 began in the early 1980s and significant changes to X12 continued until the mid '80s; reliable, stable transactions sets began emerging in the mid to late '80s.
EDIFACT	EDI	20	Yes	Several	EDIFACT leveraged the X12 experience and moved to reliable, stable transactions in a couple of years.

1.8.2 What is the Acceptable Balance for the Chemical Industry?

After reviewing the approaches of other communication-based standards, it became apparent that backward compatibility is a difficult and challenging problem to address. However, because of the goals of ChemXML™, the Chem eStandards recommends the following publication strategy to address backwards compatibility as part of delivering ChemXML™ 2.0:

- Chem eStandards publication policy will support the speed required in eBusiness development balanced against needs of the chemical industry, specifically backwards compatibility, as well as the goals and expectations of CIDX in maintaining a quality standard.
- This policy has led to 3 levels of publication, which are further detailed in the table below:

1.8.2 What is the Acceptable Balance for the Chemical Industry?, continued

Type of Publication	Backward Compatible?	Impact to Chem eStandards	ChemXML n.n	Expected Frequency
Version	No	Occur only when major changes are required to the Chem eStandards due to some technological advance or when significant functional enhancements are required to the standard which would change existing XML messages, structures, and data elements	Increase the left-hand side of the decimal of the Chem eStandards (e.g., 2.x → 3.0)	Rarely; CIDX's charter is to have this occur as infrequently as possible
Release	Yes	Entails making minor enhancements to ChemXML™ DTD, adding new ChemXML™ DTDs, and their supporting text in order to increase functionality or enhance existing functionality. In addition, during Release publications, additional text required to support any sub-release changes is added to the publication.	Increase the right-hand side of the decimal of the Chem eStandards (e.g., 2.3 → 2.4)	Possibly a 3-6 month schedule.
Sub-Release	Yes	Includes emergency fixes to ChemXML™ DTDs and/or adding new ChemXML™ DTDs which are required for use of the Chem eStandards Example: 3 new data elements are added to an existing ChemXML™ DTD and made available, however, supporting text within the sub-release (such as sample mark-ups) are not updated.	Adds a number (or letter) to the right-hand side of the decimal of the Chem eStandards (e.g., 2.3. → 2.3.1)	Often, possibly monthly

The Chem eStandards team acknowledges that this publication strategy implies that backward compatibility may be jeopardized when a Version publications occurs, which does imply that chemical companies may in fact need to maintain at least two sets of integration maps and processes in order to support two different versions of ChemXML™. The aforementioned conclusion and position on backward compatibility was reached to allow for Chem eStandards enhancements balanced against cost savings.

1.9 Revision History

1.9.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release v2.0:</p> <ul style="list-style-type: none">• Added Interpretation of Specific Words in this Section• Added Key Directional Decisions• Improved the content of the Structure of the Chem eStandards• Moved the General Implementation Guidelines that was previously located in an Appendix.• Added Backward Compatibility information• Included the revision history for the Introduction section

2.0 Envelope and Security

IMPORTANT: These Chemical eStandards have been developed on a nonprofit basis through the Chemical eStandards Association by a coalition of interested companies in the chemical industry for the mutual benefit of the entire industry. The copyright to the Chemical eStandards is owned by the Association pursuant to a Memorandum of Understanding entered into with all contributing companies. However, as stated in the terms of “Standards Use” online, the Chemical eStandards may be copied and distributed only in the form published and copyrighted and no permission is granted for any change or modification to the Chemical eStandards. Subsequent management of the Chemical eStandards is expected to be undertaken by the Chemical Industry Data Exchange Association (CIDX), which will own the Chemical eStandards. Neither the Chemical eStandards Association, nor CIDX can guarantee the accuracy, completeness, efficacy, timeliness, or correct sequencing of the Chemical eStandards. Use of the Chemical eStandards is voluntary, and reliance on them should be undertaken only after an independent review by the user. The Association, CIDX, and their officers, directors, employees and agents assume no responsibility for consequences resulting from the use of or reliance on the Chemical eStandards. Neither the Association, nor CIDX is responsible for, and each expressly disclaims all liability for, damage or loss of any kind arising out of the use of the standards, including but not limited to direct, indirect, consequential, or special damages of any type or from any copyright or patent infringement. No guarantees or warranties, including, but no limited to, any express or implied warranties of merchantability or fitness for a particular use or purpose, are made by the Association or CIDX in connection with the Chemical eStandards.

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2.1 Introduction

The primary objective of Chem eStandards is to meet Chemical Industry needs for inter-enterprise interoperability via XML-based standards, while at the same time, providing a path forward for potential cross-industry convergence as XML-based standards become more robust. The ChemXML developers decided that the best way to accomplish this was to leverage the work of a well-established organization developing XML-based specifications, one that has specifications in active use and is in a very good position to influence the evolution of the XML standards. The organization selected was RosettaNet.

The RosettaNet components that were considered for use were the RosettaNet Implementation Framework (RNIF), Partner Interface Process (PIP™), and Dictionary. Chem eStandards leverage the transport, envelope, and security aspects of RNIF, version 1.1, as documented on the RosettaNet website: <http://www.rosettanel.org>. RNIF 1.1 is the basic reference for envelope and security information. Further clarification of how the eStandard leverages the RNIF is provided in this section.

RNIF 2.0 was presented to RosettaNet membership in November 2000 for vote. Assuming approval by membership, integration tool vendors anticipate product releases supporting RNIF 2.0 in second quarter of 2001. Based on the availability RNIF 2.0 will be reviewed for inclusion in a future version of Chem eStandards. Note RNIF 2.0 is not backward compatible. Changes improve marketplace support and communication options, but do not impact transaction DTD's

Chem eStandards did not adopt the entire RosettaNet Dictionary but the project team did use the Dictionary as a source of data element tags to build the eStandard Dictionary. Where a RosettaNet data element tag is used, the Chem eStandards Dictionary refers to the RosettaNet Dictionary as the source.

2.2 Disclaimer

While there is agreement in principle for Chem eStandards to leverage and reference RosettaNet, the two groups have not yet reached a formal legal agreement. Therefore, references to RosettaNet may change in the final document.

2.3 Envelope

Most ChemXML transactions are sent within an eStandard envelope. Chem eStandards uses an envelope of the same format as RosettaNet. For implementation details, please refer to RosettaNet RNIF 1.1. Specific differences are pointed out in this document in bold text.

The basic transmission envelope structure (figure 2.1) is very simple in design. The envelope itself is a direct copy from the RosettaNet implementation and the XML definitions are available from the RosettaNet website. The structure holds little else beside three XML documents (a Preamble, a Service Header, and the ChemXML transaction stored as a multi-part MIME document) as well as length fields and optional signature information. [MIME, Multipurpose Internet Mail Extensions is a common Internet standard for describing the content of an object].

Where RosettaNet objects define their MIME type as “Application/x-RosettaNet,” Chem eStandards will use “Application/x-ChemXML.” This distinction will support enterprises that exchange XML both with Chemical companies using ChemXML and with Information Technology companies using RosettaNet. Additionally, the value for GlobalAdministeringAuthorityCode for ChemXML is “CIDX,” which is the organization that will oversee eStandards (see example markup).

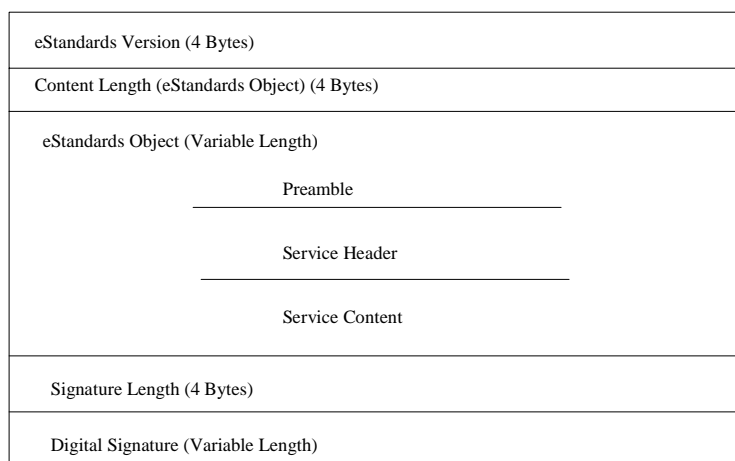


Figure 2.3.a basic envelope structure

2.4 Transaction Format/Process Flow

RosettaNet XML definitions are incorporated as part of a specific business process to which the participating companies have agreed. Chem eStandards defines the XML for specific transactions, but does not define a required business process for the transaction. Each transaction stands by itself, and the enterprises using ChemXML define the business processes in which ChemXML is used.

2.4 Transaction Format/Process Flow, continued

For example, two companies using ChemXML might elect to use a business process of “Create Purchase Order” to be responded to with “Purchase Order Response.” Note however, as specified by RosettaNet RNIF 1.1, Receipt Acknowledgements are signals that a message has been received, rather than a separate transaction or process. Receipt Acknowledgements are a requirement for each transaction; otherwise, this example is just one way these transactions can be combined into a process.

Example (Create Purchase Order with Purchase Order Response):

An example of a buying and selling entity executing a “Purchase Order Request” (create purchase order) transaction follows:

Step 1:

The buyer creates a “Create Purchase Order” document and sends the document to the selling entity.

Note: The “Create Purchase Order” message is unique to this process.

Step 2:

The supplier, or selling entity, has two hours (by mutual agreement) to respond to the buyer with a “Receipt Acknowledgment” message. This message is ~~aci~~ transaction specific and serves only to acknowledge the sender of the original message that the Step 1 transmission was received and was well formed.

Note: This two-hour reply window is specified as a parameter in the service header of the document. See “Service Header” description within the “Transaction Structure” below. Also, see the section on Generic and Transaction Specific Acknowledgments below.

Step 3:

The supplier then has 24 hours (by mutual agreement) to respond to the buyer with a “Purchase Order Response” message. This message indicates that the supplier is going to fulfill the buyer’s request as indicated in this document (may include quantity changes, price changes etc.).

Note: This 24-hour reply window is specified as a parameter in the service header of the document. See “Purchase Order Response” description within the “Service Header” of the “Transaction Structure” below.

Note: The “Purchase Order Response” message is unique to this transaction.

Step 4:

The buyer has a two-hour window (by mutual agreement) in which to transmit a “Receipt Acknowledgment” message back to the supplying organization. This signifies that the buyer has received the “Purchase Order Response” message from the supplier. If the buying organization does not agree to the terms on the acceptance document, a change purchase order and/or cancel purchase order transaction may be executed.

Note: As in Step 2, the “Receipt Acknowledgment” message is a generic eStandard message.

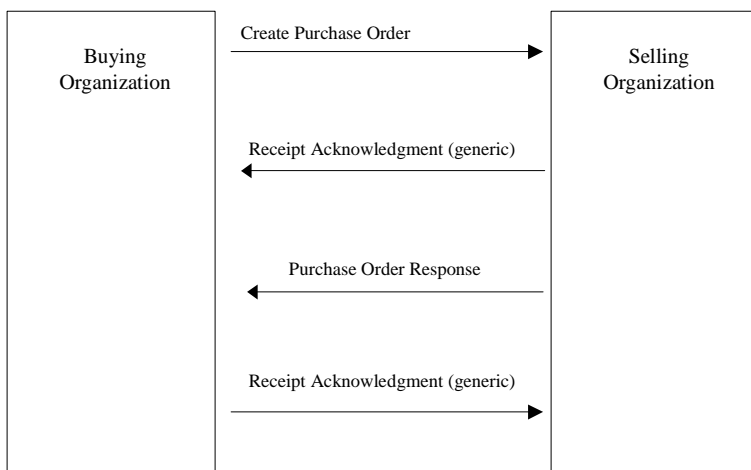


Figure 2.4.a actual document flow

Note: Although the eStandard specification also provides necessary transactions to handle error situations, cancellations, etc., they were omitted from these examples for sake of conciseness.

2.5 Generic and Transaction Specific Acknowledgments:

As shown in the example above, the Chem eStandards model provides accommodation for two types of acknowledgment: Generic receipt acknowledgements and transactions specific acknowledgements. **Receipt Acknowledgements are signals as specified in RosettaNet RNIF 1.1, but specific acknowledgements are separate XML transactions.**

2.5.1 Generic Acknowledgments:

The generic receipt acknowledgment is very similar to an EDI functional acknowledgment and is called “ReceiptAcknowledgment.” The purpose of the ReceiptAcknowledgment message is to alert the sender of the previous message that their transmission is received and is well formed. If the original message has errors (such as formatting or content), a “ReceiptAcknowledgmentException” message is returned. All exception messages contain free form text fields that allow the receiver of the errant message to include descriptive text.

2.5.2 Transaction Specific Acknowledgments:

The second type of acknowledgment (“Purchase Order Response”) used in the above example is a separate transaction, specific to the initial transaction, and provides feedback based on the business request in the original message (i.e. the selling entity may fulfill a given purchase order). Note that not all transactions have a business process specific acknowledgment, however, all transactions use the generic “Receipt Acknowledgment” messages. See the implementation guides for more information regarding specific acknowledgments.

2.6 Transaction Structure:

As shown in the schematic above, the envelope itself encloses the actual “payload” of the transaction. The object is comprised of three ChemXML subsections, each of which is a valid XML document. Each of these sub-sections: Preamble, Service Header and Service Content are defined by separate DTDs. Each of these sub-sections is described in more detail below.

2.6.1 Preamble:

The purpose of the preamble is to handle information that is global to the document (i.e. version, datestamp, etc.). Schematically, the preamble may be represented as follows:

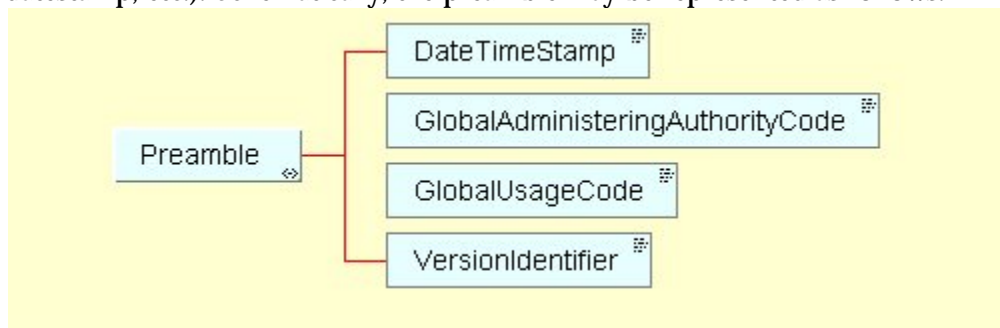


Figure 2.6.1.a

Note: The structure of the preamble document is static across all transactions.

For ChemXML, the Preamble uses RosettaNet Preamble DTD, however, GlobalAdministeringAuthorityCode is “CIDX” to distinguish transactions from RosettaNet.

2.6.2 Service Header:

The Service Header contains the transaction routing and processing information for a given transaction. The service header contains three separate data objects. They are shown schematically below:



Figure 2.6.2.a

The ProcessIdentity object contains information that describes the process to be carried out by the transaction encapsulated in the service content section of this document. The individual elements in the ProcessIdentity are shown below:

Note: For ChemXML, the GlobalProcessCode and GlobalProcessIndicatorCode contain identifiers for ChemXML transactions rather than RosettaNet processes. The VersionIdentifier contains the ChemXML version number (currently “2.0.” or previous version “1.0”).

2.6.2 Service Header, continued

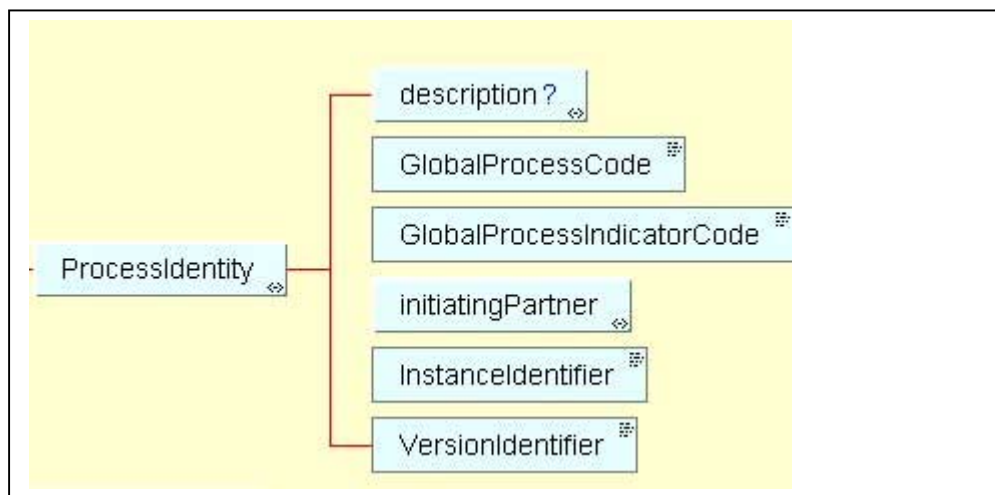


Figure 2.6.2.b

The **ServiceRoute** object contains the “to” and “from” information for this document. The data elements are shown below:

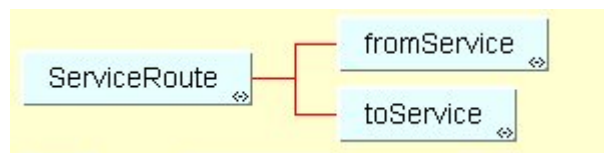


Figure 2.6.2.c

The final object in the service header is the **TransactionControl** object. This object contains data elements that provide information about how the transaction encapsulated in the service content document is to be processed. It also contains monitoring information such as the number of times this transaction has been attempted, reply time windows, and acknowledgment time windows. Below is a pictorial representation of the transaction control object.

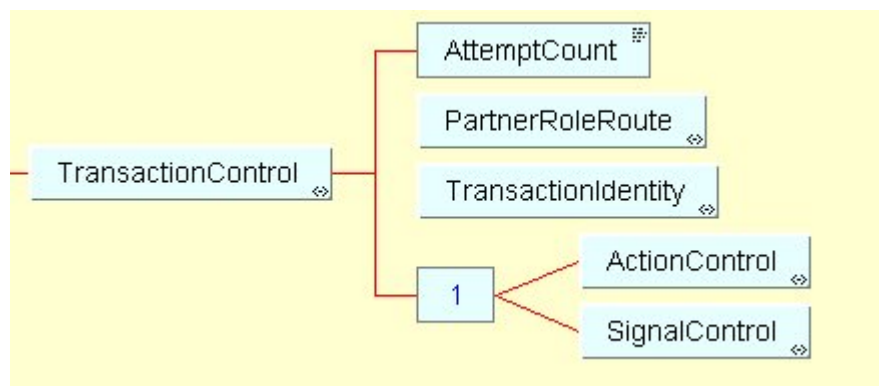


Figure 2.6.2.d

2.6.2 Service Header, continued

Note: As with the preamble document, the structure of the service header document is static across all transactions. The preamble and service header sections as used by Chem eStandards are unchanged from those in RosettaNet version 1.1, except for the coding noted above.

2.6.3 Service Content:

The service content section of the document contains the actual transaction markup. Unlike the preamble and service header, the structure of the service content document is unique to each transaction.

2.7 Security

- Chem eStandards endorses RosettaNet's security standards. The RosettaNet security standards and requirements are documented in RNIF 1.1, dated November 8, 1999. RNIF 1.1 should be consulted as the definitive eStandard for security.
- While RNIF 1.1 specifies only HTTP (Hypertext Transfer Protocol) and HTTPS (Secure HTTP) protocols, this eStandard recognizes that current Marketplaces and Business Partners use other mechanisms such as FTP, SMTP, and asynchronous message queuing. While RNIF 2.0 anticipates the use of such communications mechanisms, these mechanisms are not part of this eStandard, which is based upon RNIF 1.1. If such mechanisms are to be used, they are expected to be subject to the following conditions:
 - Marketplaces must support security standards documented in RNIF 1.1 for those Business Partners who choose to use them.
 - Marketplaces that also support alternative mechanisms must provide equivalent security functionality; see "Security for Accommodations for Exceptions."
 - Mechanisms for such accommodations should not violate explicit prohibitions in RNIF 1.1.
- This accommodation of FTP, SMTP, and asynchronous message queuing should be viewed as an accommodation by this eStandard, and should not be construed as a request for RosettaNet to accommodate these transport mechanisms.
- In the future, we expect to incorporate alternative mechanisms into the eStandard as they are recognized by industry standards, for example, if they became part of RNIF version 2.0.

2.7.1 Envelope and Security for Accommodations

While tactical accommodations may be made for non-RNIF 1.1 frameworks that use asynchronous message queuing, FTP, or SMTP, such accommodations must meet the following security requirements:

- Assurance of document source, destination, and delivery must be provided.
- Authentication between the Marketplace and Business Partners should at least be via user-id and password, and preferably should use digital certificates for authentication.
- Communications between the Marketplace and Business Partners should be strongly encrypted.
- Document integrity should be assured.
- Non-repudiation should be assured.

Use of PKI and digital certificates are the most appropriate approach to secure any of the accommodations listed above.

2.7.2 Significant Implications

The intent of this document is not to repeat all the RNIF envelope and security requirements; however, key implications of RNIF security incorporated in this eStandard follow:

- Secure Sockets Layer (SSL) v3 is to be used for mutual authentication during a session, confidentiality and integrity during a session, and receipt of objects sent during a session.
- Public Key Cryptography Standard (PKCS) #7 detached Digital Signatures on signed objects is to be used not only for transport, but also for persistent proof of non-repudiation. This in turn requires tools for generating and managing Digital Signatures beyond an SSL v3 browser.
- Digital Certificates based on X.509 version 3 standard is to be used. A third party Certificate Authority whose Root Certificate is distributed with standard browsers is recommended. Since HTTPS communication for these standards is between servers, server certificates are required.
- Security that is optional at the overall level may be required for a specific transaction: for example, digital signatures are optional overall, but are required for most specific transactions.
- An implementation that uses digital signatures that violate RNIF v1.1 specifications is prohibited.
- Authorization for access control is typically via the “subject organization name” in digital certificates. If this is not sufficiently granular for access control, trading partners may negotiate other mechanisms such as account number with digital certificates. In general, access control standards are not part of the RosettaNet specification or this document.

2.7.3 Stipulations

RNIF is a broad framework with several implementation options; however, this eStandard specifies the following choices among the RNIF options:

- Transfer of messages are via “Server-to-Server” interaction, rather than “Server-Browser-Server” interaction (refer to RNIF Version 1.1, page 34 and 54).
- Consequently, server certificates are required rather than end-user and browser digital certificates.
- It remains to validate that the then current Certificate Revocation List (CRL) be stored with each signed message (reference item 9 documented on page 55 of RNIF Version 1.1). Since the size of the CRL may greatly exceed the size of the signed object, mechanisms such as storing a CRL sequence number or other methods of delegating CRL storage to the Certificate Authority (CA) should be explored.

Moreover, the following stipulations are implicit in this eStandard endorsement of the RosettaNet security framework:

- Chem eStandards focus on B2B (Business-to-Business) transactions; consequently, consumer to business and web browsing are not within scope. This implies that order status is “pushed” from the Marketplace or seller via a server-to-server exchange, rather than “pulled” by the buyer via a browser session.
- The security portion of Chem eStandards is largely a technical framework; consequently, business practices are not currently in scope, except to the extent they are defined in specific transactions.

2.8 Transaction Security Requirements

Appendix H summarizes security requirements by transaction.

- The *Authentication* column indicates whether mutual authentication is required for a particular transaction.
- A “yes” in the *Digital Signature* column indicates that the object should be accompanied by a PKCS-7 digital signature of non-zero length that conforms to RNIF requirements.
- A “yes” in the *Non-repudiation* column implies the following:
 - The object has been signed.
 - Both initiator and recipient of the object store that object’s digital signature including object message digest.
 - Both initiator and recipient of the object store supporting information (such as signer certificate, certificate authority and public key, secure time stamp, and unambiguous reference to the then-current CRL).

2.9 Implementation Guidance

2.9.1 Application Integration Tools

Chem eStandards ChemXML defines the format in which transactions will travel between business entities. At origin, transaction information will be translated from a back-end system into ChemXML for transmission to business trading partners. Upon receipt, trading partners will convert the ChemXML to the format required for internal processing systems. Application integration software is the most likely tool for translating to and from ChemXML. Business entities may already have such a tool for Enterprise Application Integration (EAI) or eCommerce Application Integration (eAI). Many EAI/eAI tools already have capability to process ChemXML. In addition, the list of Solution Partners on the RosettaNet website includes a number of EAI/eAI tool vendors who have the capability to process RosettaNet transactions or have committed to do so.

Because EAI/eAI tools are in a dynamic market space, an evaluation checklist is much more appropriate than an analysis of current tools. The characteristics to examine before selecting a tool are delineated in the following table:

Criteria	Rationale	Analysis
What data formats does the tool support for mapping transformations?	This is the minimum essential requirement: the tool must support XML and the back-end systems used by the enterprise	The required formats may be standard features or extra-cost additions. A release upgrade may be required for full support

2.9.1 Application Integration Tools, continued

Criteria	Rationale	Analysis
What communications mechanisms does the tool support?	For use with eStandards, the tool must be able to support <u>or transfer to</u> the external communication mechanism to be used. If the tool is expected to handle the external communication directly, it should support HTTP/HTTPS, including mutual authentication. Some marketplaces will also communicate via MQSeries (IBM's asynchronous messaging product) over a virtual private network (VPN); if using such a Marketplace, MQSeries support may be required.	If the tool does not have this capability, but meets the preceding requirement, it may be possible to pass data through another tool to handle the communication. Enterprise security provisions may include such a requirement, or a relay between Intranet and Extranet may be required.
Does the tool incorporate support for Chem eStandards	This support could be in the form of: <ul style="list-style-type: none"> • accepting ChemXML DTD's • HTTPS communication • signaling acknowledgements • Creating and processing envelope headers • Creating and authenticating digital signatures. 	Some vendors have expressed interest in supporting ChemXML. The expected vehicle for providing this support would be to extend the flexibility of RosettaNet support (see next entry) to allow substitute DTD's, process flexibility, and additional values for specific codes. Alternatively, vendors could modify their RosettaNet offering and create an alternate offering for ChemXML.
Does the tool incorporate support for RosettaNet?	Some tools provide add-on packages that facilitate use of RosettaNet transactions, including envelope processing, PIP process support, RosettaNet DTD mapping, and signaling and digital signatures.	Flexibility is an important issue here. E.g., some tools provide "all or none" RosettaNet support, which is useless for Chemical eStandard ChemXML. However, if the envelope and security provisions can be used, substituting the ChemXML transactions, this approach will lower development cost. If the tool does not provide this capability, then additional programming will be required to handle signaling, digital signatures and enveloping.

2.9.1 Application Integration Tools, continued

Criteria	Rationale	Analysis
Does the tool vendor have a schedule for incorporating support for RosettaNet RNIF 2.0?	RNIF 2.0 was submitted to vote by RosettaNet membership in November 2000. Tool vendors anticipate support for RNIF 2.0 approximately 2Q 2001	Chem eStandards will continue to use RNIF 1.1 for the current release, and will evaluate RNIF 2.0 for use mid 2001, when tool vendors should be able to support it.
Does the tool have a built-in facility for digital certificates and digital signatures?	ChemXML transactions need to be signed for tamper-proofing and non-repudiation	If this capability is not already provided as part of ChemXML or RosettaNet support, it may be available as a stand-alone capability. If it is not, then custom programming or calls to other packages will be required to sign the transactions.

Table 2.9.1.a

2.9.2 Processing Sequence

When a document is to be sent in ChemXML format, processing will usually follow a sequence like this:

- Back-end system (e.g. SAP or legacy system):
 - Create Document and export to integration tool
- Integration Tool
 - Receive back-end system document
 - Convert document to ChemXML
 - Apply digital signature (or call external modules to apply signature)
 - Pass document to communications interface
 - Await receipt acknowledgement (generate error if not received in timely fashion)
- Communications Interface
 - Receive ChemXML
 - Establish HTTPS communication with target enterprise
 - Send ChemXML over HTTPS link

When a document is received in ChemXML format, processing will generally follow a sequence like this:

- Communications Server
 - Receive request for HTTPS session
 - Exchange authentication information to establish session
 - Receive ChemXML document over HTTPS
 - Relay ChemXML to integration tool

2.9.2 Processing Sequence

- Integration Tool
 - Receive ChemXML
 - Validate digital signature
 - Parse ChemXML
 - Respond back to sending system with ReceiptAcknowledgement or ReceiptAcknowledgementException (if there was an error).
 - Convert ChemXML as required for back-end system
 - Relay converted document to back-end system
- Back-end System
 - Receive formatted document from integration tool
 - Process document according to design
 - Acknowledge with appropriate transaction (which travels as a sent document above)
 - 2.10.3 HTTPS Communication

HTTPS Communication requires preparation and configuration. For bi-directional communication, a separate mutually-authenticated HTTPS connection is configured in each direction. Although the same concept as browser to server HTTPS is being used, for Chem eStandards, a higher level of security is involved and the connections are server to server (B2B eCommerce frequently involve substantial financial transactions, content is considered proprietary, and qualified purchasers must be authenticated).

Each business entity will need to tell the other entities what information they require to establish HTTPS communication. For each connection, the receiving business will indicate the requirements for the sending business to meet to enable access. The specific requirements may differ by company but will include information such as:

- SSL v3 required
- Certificate level required (level 3)
- Valid certificate, public key
- Domain name and/or IP address, port from which access will originate

The business entities exchange the required information with the receiving company. When each entity has configured its communications capability to support the connection, they will notify the other entity, so that communications can be initiated.

Establishing HTTPS communication is a significant event for enterprise security officers and for Intranet/Extranet and security infrastructure support groups. If the enterprise does not already provide for HTTPS communication, the plan must be laid out well in advance.

It is strongly recommended that Certificates be obtained from a recognized Certificate Authority (CA). Where mutually agreed, businesses may act as their own CA's, but this can create issues. Obtaining certificates requires lead-time and documentation.

2.9.3 Alternate Communication

HTTPS communication is a requirement for Chem eStandards compliance, because it is open and non-proprietary (making it inexpensive for most participants to implement), yet provides a high degree of security and reliability as used here.

2.9.3 Alternate Communication, continued

As specified in this document, however, a pair of business entities may select another approach to communication that better meets their mutual needs, e.g. for very short response times. Some of these alternate approaches involve significant resources (people and money) to implement, creating barriers to participation if they were the only communication approaches. It is acceptable to use alternate approaches with Chem eStandards, as long as the alternate approach incorporates requirements that meet chemical company needs for reliability and security.

One example of alternate communication is asynchronous messaging (a frequently referenced example would be IBM's MQSeries product). For this approach to be acceptable, the messaging between business entities must be encrypted and digital signatures must be maintained. A dedicated asynchronous messaging connection could carry encrypted, signed documents, or the signed documents could travel over a Virtual Private Network (VPN). Some asynchronous messaging tools may provide guaranteed delivery and assurance of source and destination for the connection. If so, the business entities using this approach may decide to disable or eliminate envelopes and receipt acknowledgements. Note however that those receipt acknowledgements also carry information about whether the message sent is well formed XML and could be used to document receipt for legal purposes. If receipt acknowledgements are eliminated, thorough testing and alternate notifications are essential.

Since ChemXML transactions, in envelopes, travel as multipart MIME (Multipurpose Internet Mail Extensions) documents, e-mail is another possible communication approach. S/MIME (Secure MIME) transport of digitally signed documents would make this approach acceptable. This communication method is an optional addition to HTTPS in RosettaNet RNIF 2.0 (to be reviewed for future releases of Chem eStandards).

FTP (file transfer protocol) is the most basic alternate transfer method. This method is only acceptable if the ChemXML transactions are signed and encrypted prior to transmission.

Communication Compliance Checklist:

- HTTPS v3 (mutually authenticated) with PKCS7 digital signatures provided for trading partners who request this approach
- Additional communication methods to meet mutually-agreed business requirements:
 - Data that travels outside enterprise firewalls is strongly encrypted
 - Transactions that require digital signatures are signed with PKCS7 digital signatures for non-repudiation and tamper-proofing
 - A mechanism exists to assure the businesses of document source, destination, and successful delivery
 - Mutual agreement by business entities is documented

2.9.4 Digital Signatures

Digital signatures are important to Chem eStandards, because they can ensure integrity of documents long after processing, and can be used for authentication and non-repudiation (confirmation of who originated the document). For the chemical industry, which deals in large financial values of products that may only be sold to qualified buyers, confirmation will be important.

Implementation of digital signatures (ability to create them and verify them) will vary according to the selection of integration tools and security the business entity uses. Some EAI/eAI tools have this capability built in, either by default or as part of support for Chem eStandards or RosettaNet. If built-in, configuration may only require choosing options and determining where and when to sign specific content. Other tools will require custom programming or calls to special tools to implement signatures. The signature implementations may require purchase of a separate tool.

2.9.4 Digital Signatures, continued

An existing or new digital certificate with public and private keys may be used to generate digital signatures.

Chem eStandards follow RosettaNet guidance on specifications for digital signatures

- PKCS #7 (detached digital signatures)
- National Institute of Standards and Technology (NIST) Digital Signature Specification, which specifies a Digital Signature Architecture (also specified as Federal Information Processing Standard FIPS 186).
- The encryption algorithm should be SHA-1 (Secure Hashing Algorithm 1) but MD5 (Message Digest 5) is also supported.

Digital signatures are usually created and validated in association with parsing the ChemXML, but some security environments will process the digital signatures as part of the Extranet acceptance criteria. In this case, the signature should remain with the document, so that it can be validated again by the parsing process.

2.9.5 Sample ChemXML Transmission with Envelope and Digital Signature

Example Markup	Annotation
<pre>0x00010100 nnnn -UMime-Version: 1.0 Content-Type: multipart/related; boundary=RN-Part-Boundary977171819368; type="application/x-ChemXML" RN-Part-Boundary977171819368 Content-Type: application/xml; rsubtype=preamble-header Content-transfer-encoding: 7bit Content-Description: Preamble Header <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE Preamble SYSTEM "PreamblePartMessageGuideline.dtd"> <Preamble> <DateTimeStamp>20001218T203658.923Z</DateTimeStamp> <GlobalAdministeringAuthorityCode>CIDX</GlobalAdministeringAuthorityCode> <GlobalUsageCode>Test</GlobalUsageCode> <VersionIdentifier>1.1</VersionIdentifier> -- </Preamble> --RN-Part-Boundary977171819368 Content-Type: application/xml; rsubtype=service-header Content-transfer-encoding: 7bit Content-Description: Service Header <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE ServiceHeader SYSTEM "ServiceHeaderPartMessageGuideline.dtd"> <ServiceHeader> <ProcessControl> <ProcessIdentity> <description> <FreeFormText>Create purchase order transaction.</FreeFormText></pre>	<p>RosettaNet version number content length</p> <p>ChemXML designation differentiates this from RosettaNet</p> <p>ChemXML transaction name ChemXML transaction code</p> <p>DUNS Number</p> <p>Unique identifier generated for this transaction</p> <p>2.0 is the version number for the ChemXML transaction being described in this service header</p>

2.9.5 Sample ChemXML Transmission with Envelope and Digital Signature, continued

Example Markup	Annotation
<pre> </description> <GlobalProcessCode>Order Create</GlobalProcessCode> <GlobalProcessIndicatorCode>E41</GlobalProcessIndicatorCode> <initiatingPartner> <GlobalBusinessIdentifier>001307032</GlobalBusinessIdentifier> </initiatingPartner> <InstanceIdentifier>c.ikirt7j.x8m4.000000e3836b04912.ikiv5t1.x8m4..basf_dev. 1307032.E41-1_0-Buyer-Create Order Dow2.1.0.1</InstanceIdentifier> <VersionIdentifier>2.0</VersionIdentifier> </ProcessIdentity> <ServiceRoute> <fromService> <BusinessServiceDescription> <GlobalBusinessServiceCode>Buyer Service</GlobalBusinessServiceCode> </BusinessServiceDescription> </fromService> <toService> <BusinessServiceDescription> <GlobalBusinessServiceCode>Seller Service</GlobalBusinessServiceCode> </BusinessServiceDescription> </toService> </ServiceRoute> <TransactionControl> <AttemptCount>1</AttemptCount> <PartnerRoleRoute> <fromRole> <PartnerRoleDescription> <GlobalPartnerRoleClassificationCode>Buyer</GlobalPartnerRoleClassificationCode> </PartnerRoleDescription> </fromRole> <toRole> <PartnerRoleDescription> <GlobalPartnerRoleClassificationCode>Seller</GlobalPartnerRoleClassificationCode> </PartnerRoleDescription> </toRole> </PartnerRoleRoute> <TransactionIdentity> <description> <FreeFormText>Create purchase order transaction.</FreeFormText> </description> <GlobalTransactionCode>Order Create</GlobalTransactionCode> <InstanceIdentifier>c.ikirt7j.x8m4..101.2001381581.0</InstanceIdentifier> </TransactionIdentity> <ActionControl> <ActionIdentity> <GlobalBusinessActionCode>Order Create</GlobalBusinessActionCode> <InstanceIdentifier>d.ikirt7j.x8m4.</InstanceIdentifier> </pre>	

2.9.5 Sample ChemXML Transmission with Envelope and Digital Signature, continued

Example Markup	Annotation
<pre> <VersionIdentifier>2.0</VersionIdentifier> </ActionIdentity> <GlobalDocumentFunctionCode>Request</GlobalDocumentFunctionCode> <PartnerRoute> <fromPartner> <PartnerDescription> <BusinessDescription> <GlobalBusinessIdentifier>001307032</GlobalBusinessIdentifier> </BusinessDescription> <GlobalPartnerClassificationCode>End User</GlobalPartnerClassificationCode> </PartnerDescription> </fromPartner> <toPartner> <PartnerDescription> <BusinessDescription> <GlobalBusinessIdentifier>001381581</GlobalBusinessIdentifier> </BusinessDescription> <GlobalPartnerClassificationCode>End User</GlobalPartnerClassificationCode> </PartnerDescription> </toPartner> </PartnerRoute> </ActionControl> </TransactionControl> </ProcessControl> </ServiceHeader> --RN-Part-Boundary977171819368 Content-Type: application/xml; rsubtype=service-content Content-transfer-encoding: 7bit Content-Description: Service Content <?xml version="1.0" encoding="UTF-8"?> <OrderCreate Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000034</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> </PartnerInformation> </From> </Header> </OrderCreate> </pre>	<p>ChemXML version number</p> <p>MIME Description for service content, third of three XML documents</p> <p>This message is duplicated exactly from Section 5 of this document, from here to digital signature</p>

2.9.5 Sample ChemXML Transmission with Envelope and Digital Signature, continued

Example Markup	Annotation
<pre> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <OrderCreateBody> <OrderCreateProperties> <PurchaseOrderNumber>987544</PurchaseOrderNumber> <PurchaseOrderTypeCode> <Code Domain="ANSI ASC X12 92">KN</Code> </PurchaseOrderTypeCode> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <RevisionNumber>0</RevisionNumber> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>890897</DocumentIdentifier> </DocumentReference> <SpecialInstructions InstructionType="ShipperInstructions">Ship in Stainless Steel tank car.</SpecialInstructions> <SpecialInstructions InstructionType="ShipperInstructions">Maintain 30 degrees C. in transit</SpecialInstructions> <SpecialInstructions InstructionType="CarrierInstructions">Get Safety instructions at gate entrance to plant. </SpecialInstructions> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">CIF</Code> </ShipmentTermsCode> <ShipmentTermsLocation>Dover</ShipmentTermsLocation> </ShipmentTerms> <PaymentTerms> <TermsOfSale>CIF</TermsOfSale> </PaymentTerms> </pre>	

2.9.5 Sample ChemXML Transmission with Envelope and Digital Signature, continued

Example Markup	Annotation
<pre> <ShipWithPurchaseOrder> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>987542</DocumentIdentifier> </DocumentReference> </ShipWithPurchaseOrder> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> </OrderCreateProperties> <OrderCreatePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> </pre>	

2.9.5 Sample ChemXML Transmission with Envelope and Digital Signature, continued

Example Markup	Annotation
<pre> <Payer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Payer> </OrderCreatePartners> <OrderCreateDetails> <OrderCreateProductLineItem> <LineItemNumber>1</LineItemNumber> <PurchaseOrderLineItemNumber>10</PurchaseOrderLineItemNumber> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">90969909</ProductIdentifier> <ProductDescription>Test Product B</ProductDescription> </ProductIdentification> </SellerProductInformation> <BuyerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">AB-34244</ProductIdentifier> <ProductDescription>Test Product Beta-1 Highly Confidential</ProductDescription> </ProductIdentification> </BuyerProductInformation> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>890897</DocumentIdentifier> <ReferenceItem>6</ReferenceItem> </DocumentReference> <ProductQuantity> <Measurement UnitOfMeasureCode="kgs">25</Measurement> </ProductQuantity> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <DispatchOnDateTime> <DateTime TimeZone="EST">20011121</DateTime> </DispatchOnDateTime> <LineItemPurposeCode> <Code Domain="ANSI ASC X12 92">00</Code> </LineItemPurposeCode> </OrderCreateProductLineItem> </OrderCreateDetails> </OrderCreateBody> </OrderCreate> --RN-Part-Boundary977171819368 „ 0 , € * † H † ÷ </pre>	<p>End of service content</p> <p>What follows is the digital signature length and digital signature, including message digest.</p>

2.9.5 Sample ChemXML Transmission with Envelope and Digital Signature, continued

Example Markup	Annotation
<pre> ,c0,m1 0 + 0 *†H†÷ ,]0, Y0,]0 *†H†÷ 0!1 0 U BASF10Ubasfsig0- 001031050000Z 011031050000Z0!1 0 U BASF10Ubasfsig0\0 *†H†÷ K 0HA Ěž)Äç<ØN M°ð°9sjôÿ½6ð8É£(" - 8¶E-¹§^%² ~¼ÀDk+Q°Yn /ð9R-ðÛKu £#0!0U0 test0Uÿ€0 *†H†÷ A šØŽþÛ6)+a1W÷r ieÛi-†Aÿ? ¾U-@ÐP Û#£f6 -úÁóÚ!Qf?tJ%)dî' B%~İµ *1 î0 é0)0!1 0 U BASF10Ubasfsig]0 +]0 *†H†÷ 1 *†H†÷ 0 *†H†÷ 1 001218203700Z0# *†H†÷ 1Å#Š5--üE³ : jÿ §³ žIâ0 *†H†÷ @1µc- £AÜ)&šPZ7Š8Uj_cHŞ7~yŽpõ"Ûï!\$cÈ,%oh+oÑčlùBÈÈ[ô ´vŽçõa"{ </pre>	

3.0 Customer

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3.1 Introduction and Scope of Effort

This section defines the data exchange interfaces necessary to support the qualification and identification of registered Buyers (See 3.2.1 Marketplace Model) between a Marketplace and participating Sellers. The following business transactions, which may be considered part of a Buyer Qualification process, are supported and discussed in detail below:

Qualification Request	Notification of a Buyer, from the Marketplace, to one or more Sellers
Qualification Response	Seller's response to the Marketplace, for a specific Qualification Request

The Qualification Request transaction takes place between the Marketplace and the Seller and enables the identification of a Buyer through the Marketplace. Few data elements for this message are required (mandatory), among which is the Dun & Bradstreet D-U-N-S® Number (D-U-N-S). If the company does not have a D-U-N-S Number, it can easily be requested from Dun & Bradstreet. Finally, optional data elements (such as account information, addresses, and financial information) are defined and may be included at the discretion of the Marketplace.

The Qualification Request message includes many of the basic data elements of a typical customer registration record. The Qualification Response is a short message containing the return status of the initial Qualification Request.

3.1.1 Key Scope Assumptions

- A Business Partner is identified at the requested company level. Individual companies may be further identified as Buyers, Sellers, Distributors, etc. within the Marketplace.
- A standard coding scheme, D-U-N-S, which has been used in Chem eStandards, is necessary to uniquely identify Business Partners.
- It is not the intent of the Chem eStandards to develop standard customer master information across Marketplaces and Business Partners. Instead, these specifications include a minimum set of information necessary to identify a Buyer to a Seller.
- It is not the intent of the Chem eStandards to change current business processes for Buyer evaluation, creation, or maintenance within the Seller's organization.
- The Marketplace is responsible for collecting sufficient information about the Buyer to initiate a qualification request to a Seller. It is not the intent of the Chem eStandards to standardize that data collection process.

3.1.2 Key Business Model Assumptions

The Marketplace model introduces a new method for establishing and maintaining business relationships for electronic transactions in the Chemical Industry. The following are assumptions regarding these relationships within a Marketplace environment.

- Within the various eStandard transactions, the D-U-N-S Number is used to uniquely identify individual registered Business Partners. This code allows for identifying individual Business Partner locations.

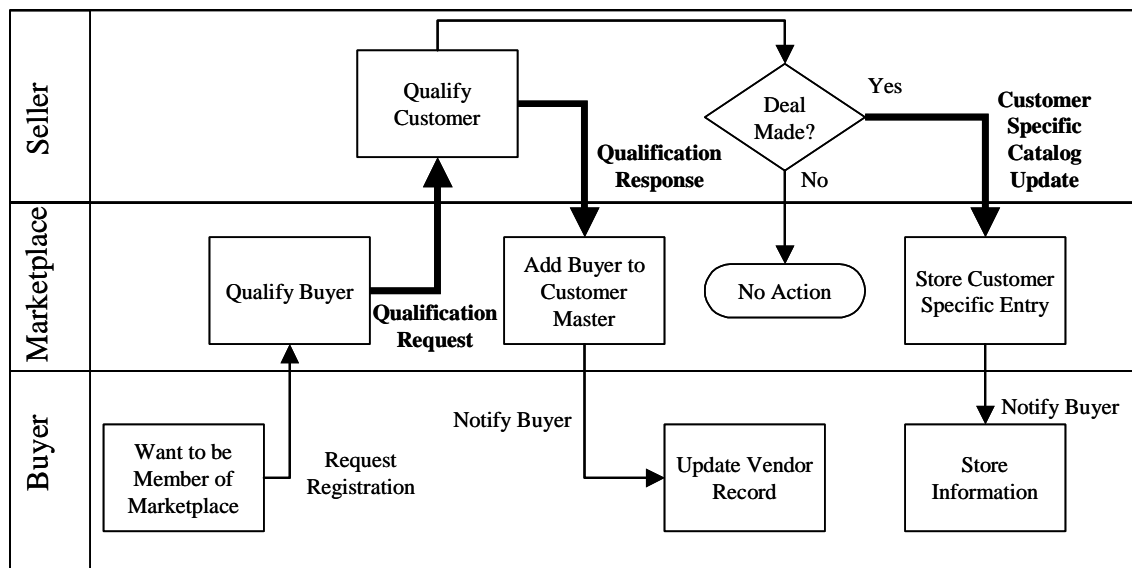
3.1.2 Key Business Model Assumptions, continued

- The Marketplace collects and maintains a record of Buyers and Sellers, their relationships, and their transactions in the Marketplace, in accordance with the contractual agreement between the concerned parties.
- It is the responsibility of the Seller to decide whether to do business with the Buyer, having evaluated such things as a Buyer's credit worthiness, reputation, and product stewardship.
- The Buyer Qualification process, as described in this document, is not relevant for direct, B2B transactions between Buyers and Sellers (i.e., Qualification Request and Qualification Request Response transactions are not applicable in a B2B Model between Buyers and Sellers).
- The Marketplace ensures that a Seller is given the opportunity to accept or reject a new Buyer by offering Qualification prior to the execution of a business transaction and/or triggering Qualification at the point of a first transaction. This processing applies to both contract and non-contract purchases.

3.2 Business Process Diagrams with Descriptions

The general business process model for the qualification and identification of Buyers via a Marketplace is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace and Seller. Solid thin lines illustrate the Buyer to Marketplace transactions (communications can be via telephone, fax, email, browser, and use of the Chem eStandards).

Customer Registration



Supported in This Standard	■ ■ ■ ■ ■ ■ ■ ■	Buyer / Seller Communications	Process Not Currently Supported in This Standard	—
	—————	Marketplace to Seller/Buyer Communications		

3.2 Business Process Diagrams with Descriptions, continued

In general, a Buyer chooses to participate in a Marketplace, which is typically followed by the Registration process for that Marketplace. Next, although not necessarily triggered by the Registration process itself, the Marketplace facilitates a Buyer Qualification process between the Buyer and a registered Seller. This process entails sending the Qualification Request transaction to the Seller. (It is important to note that the Buyer Qualification process may be initiated by several different business events within the Marketplace, each are discussed in detail below.) Upon receiving a Qualification Request, a Seller typically evaluates the potential Buyer. After evaluating the Buyer, the Seller needs to return a Qualification Response transaction to the Marketplace. Based on the information contained within the Qualification Response, the Marketplace typically performs a Marketplace-defined business process (for example, if approved, provide access to Buyer). Finally, the Marketplace may choose to communicate the response (i.e., status) of the Qualification Request to the Buyer.

Marketplace Model	The Buyer Qualification process, as described in this document, applies to a Marketplace model. Additional details regarding Buyer Qualification in a Marketplace model are presented in Section 3.2.1.
Business-to-Business Model	The Buyer Qualification process, as described in this document, is not relevant for direct, B2B transactions between Buyers and Sellers (i.e., Qualification Request and Qualification Request Response transactions are not applicable in a B2B Model between Buyers and Sellers).

3.2.1 Marketplace Model

As discussed above, the Buyer Qualification process, as described in this document, is not relevant for direct, B2B transactions between Buyers and Sellers (i.e., Qualification Request and Qualification Response transactions are not applicable in a B2B Model between Buyers and Sellers).

The following Marketplace model business processes and their associated transactions, as outlined above, is discussed in further detail below:

- Marketplace Registration
- Buyer Qualification

Marketplace Registration

The collection of business information required for the Marketplace Registration process is initiated when a Seller or Buyer makes a business decision to join a Marketplace. A Chem eStandards transaction has not been developed to enable the Marketplace Registration process for the following reasons:

- Since the event that initiates the Marketplace Registration process is a manual, business decision, it is unlikely that Registration will become an automated transaction requiring a standard XML message. However, once a Seller's or Buyer's identity has been established within a Marketplace (i.e., saved or stored electronically), automated transactions between Buyers, Sellers, and the Marketplace may occur.

3.2.1 Marketplace Model, continued

- Marketplaces within the Chemical Industry may adopt different business models, provide different types of services, and target different segments of the market, which in turn drive very diverse registration requirements from Business Partners. The diverse registration requirements that can be anticipated between Marketplaces may likely limit the adoption and compliance of a Chem eStandards transaction for the Marketplace Registration process.

To effectively leverage and apply the Chem eStandards described in this document, the Marketplace Registration process **must** obtain the following from all Business Partners that desire to join a Marketplace:

- D-U-N-S Number - Unique, 9-digit global company or business identifier assigned and maintained by Dun & Bradstreet. Note: All Business Partner locations desiring to participate in a Marketplace must be registered with a D-U-N-S Number.

Buyer Qualification

The Buyer Qualification process is initiated when a Buyer indicates an interest in doing business with a Seller via the Marketplace. A number of scenarios may initiate the Buyer Qualification process, and these are discussed in detail below:

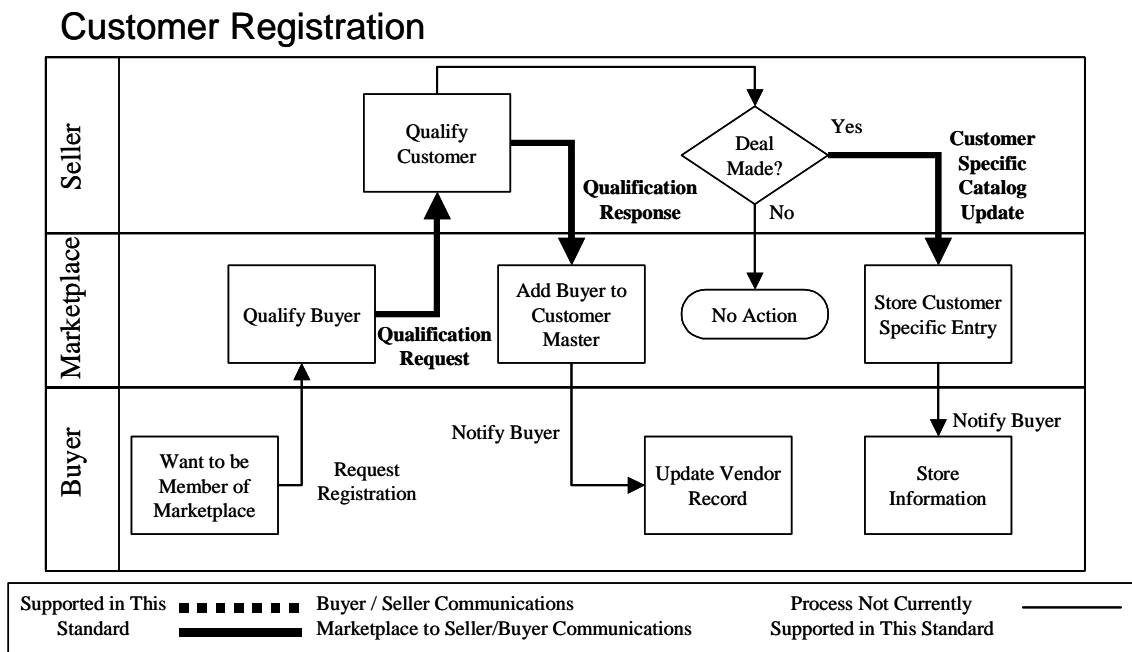
- Existing Contracts
- First-time Purchase Order
- First-Time RFQ

The Buyer Qualification process as it is described below, is limited to qualification at the company level (i.e., financial evaluation, credit worthiness, or reputation). Since Buyers and Sellers in 'open' Marketplaces may not have an existing business relationship, qualification at the product level (i.e., product stewardship, regulatory restrictions), may only take place following the submission of a Purchase Order or RFQ to the Marketplace. It is important to realize that the Buyer Qualification process is purely a Seller's affair that occurs only once for a given Seller/Buyer relationship.

3.2.2 Scenario #1: Existing Contracts

The Business Process Model for Existing Contracts using the Marketplace model is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace and Seller. Solid thin lines illustrate the Buyer to Marketplace transactions (communications can be via telephone, fax, email, browser, and use of the Chem eStandards).

3.2.2 Scenario #1: Existing Contracts, continued



Existing Contracts refers to a Buyer that has a pre-existing business relationship with a Seller, which is typically characterized by a contract arrangement or purchase agreement between the Buyer and Seller. If a Buyer, during the Marketplace Registration process, chooses to provide information to the Marketplace regarding its current business relationships with registered Sellers (i.e., D-U-N-S Number, Company Names, or Contract Numbers), the Marketplace transmits a Qualification Request to each of the registered Sellers requesting a response from the Seller indicating whether or not the Seller is willing to do business with the Buyer via the Marketplace. The Qualification Request includes the following information:

- Buyer’s D-U-N-S Number and Buyer Name
- Contract Numbers
- Optional Data Elements (e.g., payment terms.)

The Qualification Response, which is required from the Seller to whom the Qualification Request was issued, includes the following information:

- Buyer D-U-N-S Number and Buyer Name
- Seller D-U-N-S Number and Seller Name
- Status (e.g., Approved, Denied, etc.)
- Description of Status

3.2.2 Scenario #1: Existing Contracts, continued

A return status of acknowledged or approved generally allows the Buyer to proceed with a Purchase Order or RFQ with the Seller within the Marketplace, whereas a return status of denied prevents the Buyer from conducting further business with that Seller. Additionally, if the Seller approves a Buyer, then the Buyer may be granted more immediate access to their contract pricing via the Marketplace. In either case, the Marketplace may choose to forward the Qualification Response to the Buyer as a means of notification.

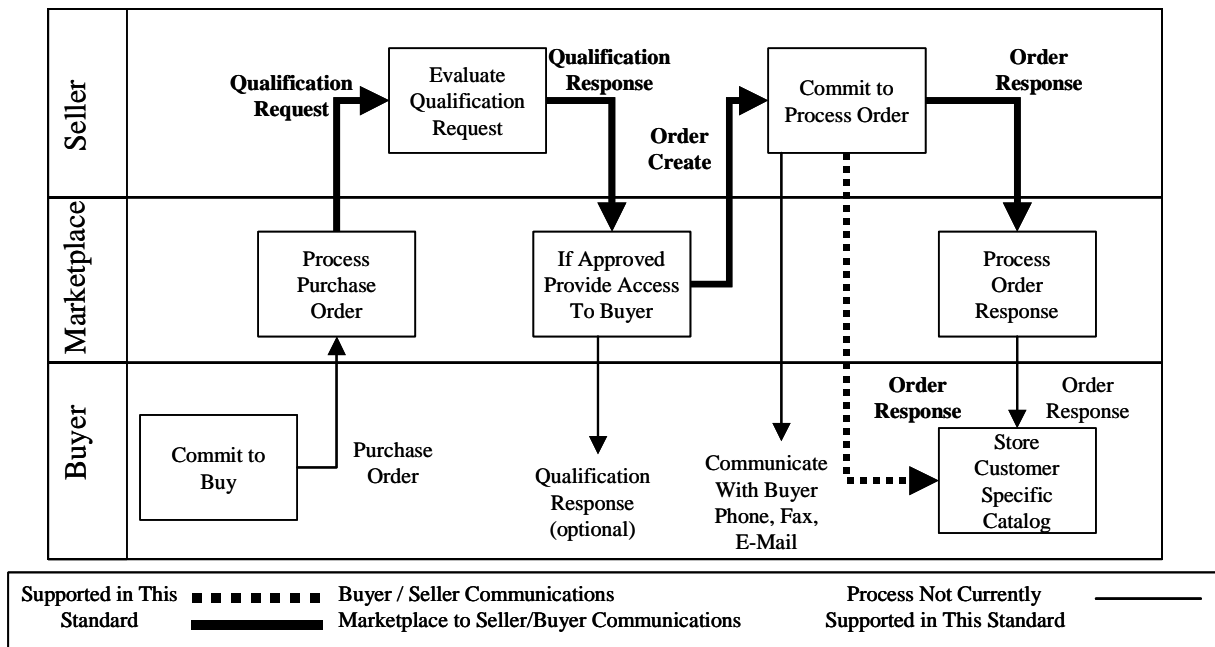
[Qualification Request Example Markup](#)

[Qualification Response Example Markup](#)

3.2.3 Scenario #2: First-Time Purchase Order

The Business Process Model for First-Time Purchase Order using the Marketplace model is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace and Seller. Dashed thick lines indicate the Buyer to Seller transactions. Solid thin lines illustrate the Buyer to Marketplace transactions (communications can be via telephone, fax, email, browser, and use of the Chem eStandards).

First Time Purchase Order



3.2.3 Scenario #2: First-Time Purchase Order, continued

First-time Purchase Order refers to a Buyer that has not purchased a product or service via the Marketplace from a given Seller or Sellers. For example, upon browsing the Marketplace’s catalog of products and services, a registered Buyer may indicate a desire to purchase a product, potentially at list price, from a given Seller. If the Marketplace determines that the Buyer has not yet been qualified by the Seller to conduct business via the Marketplace, the Marketplace transmits a Qualification Request to the Seller, which gives the Seller an opportunity to evaluate and qualify the potential Buyer. The Seller then returns a Qualification Response to the Marketplace. If the Seller has acknowledged or approved the Buyer, the Marketplace generally proceeds with the Purchase Order. Finally, the Marketplace may choose to forward the Qualification Response to the Buyer in question as a means of notification.

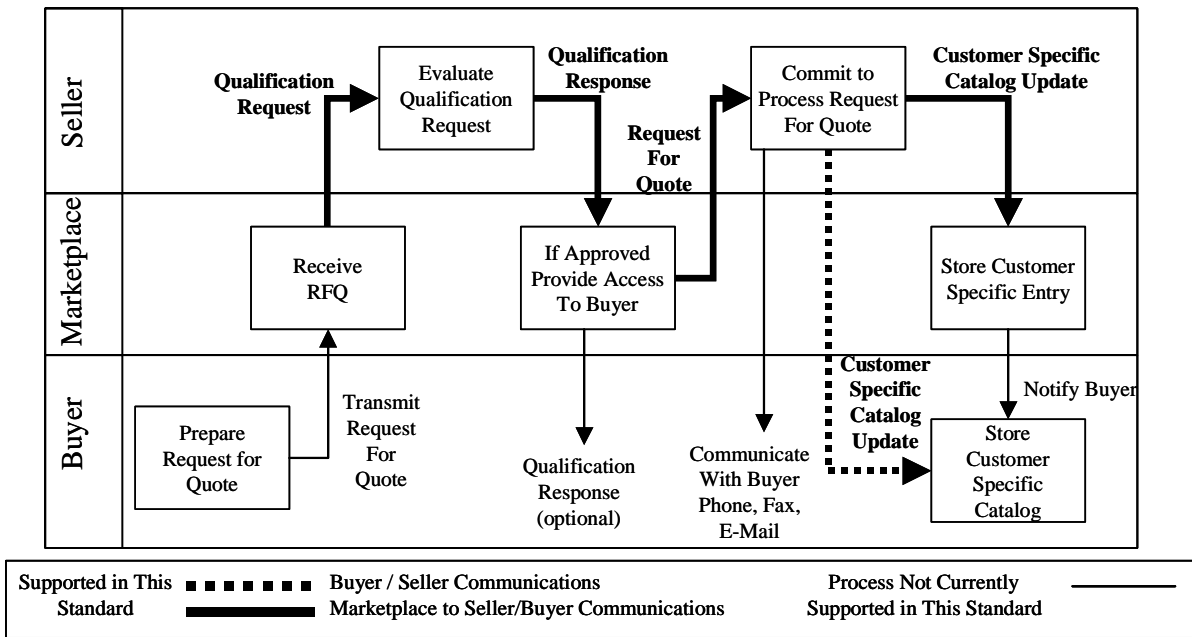
[Qualification Request Example Markup](#)

[Qualification Response Example Markup](#)

3.2.4 Scenario #3: First-Time RFQ

The Business Process Model for “First-Time RFQ” using the Marketplace model is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace and Seller. Dashed thick lines indicate the Buyer to Seller transactions. Solid thin lines illustrate the Buyer to Marketplace transactions (communications can be via phone, fax, email, browser, and use of this eStandard).

First Time Request For Quote



3.2.4 Scenario #3: First-Time RFQ, continued

First-time RFQ refers to a Buyer who has not previously submitted a request for quote (RFQ) via the Marketplace to a given Seller. For example, upon browsing the Marketplace's catalog of products and services, a registered Buyer may desire to purchase a product from a given Seller, but not at the list price included in the on-line catalog. If the Marketplace determines that the Buyer has not yet been qualified by the Seller to conduct business via the Marketplace, the Marketplace transmits a Qualification Request to the Seller, which gives the Seller an opportunity to evaluate and qualify the potential Buyer. The Seller then returns a Qualification Response to the Marketplace. If the Seller has acknowledged or approved the Buyer, the Marketplace generally proceeds with the Transmit RFQ transaction. Finally, the Marketplace may choose to forward the Qualification Response to the Buyer in question as a means of notification.

Note: It is reasonable to assume that a Buyer need not be qualified for both the First-time RFQ and the First-time Purchase Order scenarios (i.e., the Buyer Qualification process between a given Seller and Buyer should occur only once).

[Qualification Request Example Markup](#)

[Qualification Response Example Markup](#)

3.3 Qualification Request

The Qualification Request transaction functions as the notice to the Seller that a registered Buyer is requesting purchasing access through the Marketplace. Data elements of a basic customer registration record are included in this message. The data model and example markup for the Qualification Request are documented below:

3.3.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>Properties:</p> <ul style="list-style-type: none"> • The Properties section was made mandatory. • The element LanguageCode replaces the phase 1 Language element, and became mandatory. • The element CurrencyCode replaces the phase 1 Currency element, and became mandatory. • The structure MarketPlaceInformation was added with 0-1 occurrence. •

3.3.1 Release Information, continued

	<p>Partners:</p> <ul style="list-style-type: none"> • The Buyer structure was changed from 0-1 occurrence to mandatory occurrence. • The Seller structure was added with mandatory occurrence. • The DeliverTo structure changed into the ShipTo structure, with 0-many occurrence instead of 0-1 occurrence. • The PayerInformation structure was added with mandatory occurrence, which includes the PartnerInformation structure and the AccountInformation structure <p>Details:</p> <ul style="list-style-type: none"> • The element BuyerIdentifier was removed. • The structure BuyerReference (linked to the structure DocumentReference) was added with 0-many occurrences • The AccountInformation structure was removed (and added to the Payer structure). • The structure PaymentTerms was added with 0-1 occurrence. • The element PaymentMethodCode was added with 0-1 occurrence. • The structure InvoicePreference was added with 0-1 occurrence. <p>The element FinalDestinationCountryCode was added with 0-many occurrences.</p>
--	---

3.3.2 Qualification Request Data Model

The following diagrams show the graphical representation of the Qualification Request Data Model:

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

3.3.2 Qualification Request Data Model, continued



Figure 3.3.2.a: QualificationRequest structure

The QualificationRequest structure contains a Header and Body. The Body section contains sections for Properties, Partners, and Details.

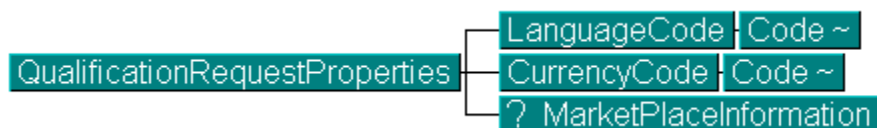


Figure 3.3.2.b: QualificationRequestProperties structure

The QualificationRequestProperties structure contains only basic information about the Buyer such as Language and Currency.

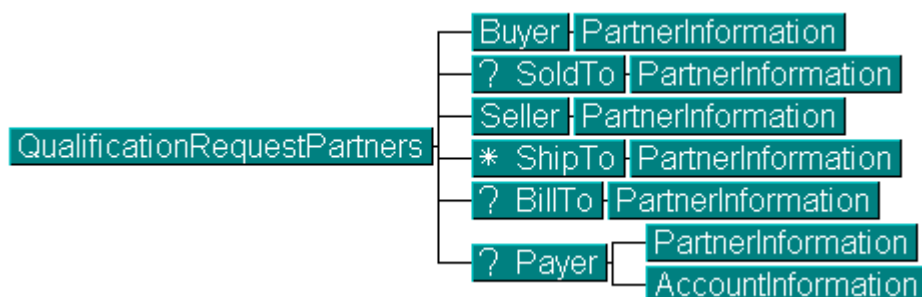


Figure 3.3.2.c: QualificationRequestPartners structure

The QualificationRequestPartners structure identifies the Buyer, the Seller doing the qualification, and other partners of Buyer that may be useful in determining qualification status.

3.3.2 Qualification Request Data Model, continued

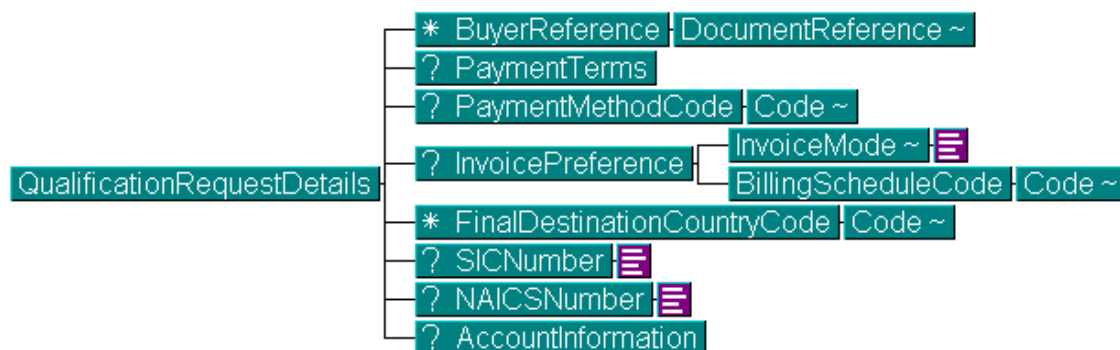


Figure 3.3.2.d: QualificationRequestDetails structure

The QualificationRequestDetails structure contains details about the Buyer that the Seller can use to help determine qualification status.

3.3.3 Data Elements and Attributes

The following tables lists the data elements and attributes for Qualification Request business transaction:

QualificationRequest Properties section:

Element (E)/Structure (S)	Notes
LanguageCode (E)	Default language for the Buyer/SoldTo, which can be stored in the customer master of the Seller.
CurrencyCode (E)	Default currency for the Buyer/SoldTo, which can be stored in the customer master of the Seller.
MarketPlaceInformation (S)	Structure with information filled by the Marketplace used for identification by the Marketplace.
MarketPlaceIdentifier (E)	Identifier, which is used by Marketplace to identify the document.
MarketPlaceSellerIdentifier (E)	Specific identifier for the Seller as given by the Marketplace.
MarketPlaceBuyerIdentifier (E)	Specific identifier for the Buyer as given by the Marketplace.

QualificationRequest Partners section (will not be repeated for each business transaction):

3.3.3 Data Elements and Attributes, continued

Element (E)/Structure (S)	Notes
Buyer (S)	Buyer who wants to qualify. If the Buyer is not the same as the SoldTo, then it is not the Buyer who should be evaluated for qualification, but the SoldTo.
SoldTo (S)	Filled if the Buyer is not the same as the SoldTo. In this scenario, the Seller will qualify the SoldTo.
Seller (S)	Qualifying party.
ShipTo (S)	Potential ship to addresses may be important for the Seller, as they may affect the qualification.
FinalDestinationCountryCode (E)	Similar to ShipTo, these can be important for the Seller, as they may affect the qualification.

QualificationRequest Details section:

Element (E)/Structure (S)	Notes
BuyerReference (S)	Structure through which the Buyer can specify previous/existing agreements.
DocumentIdentifier (E)	Filled with the document number (e.g., contract number) which indicates the previously agreed upon relation. Through the attribute ReferenceType, one can specify the type of reference involved.
ReferenceItem (E)	Filled with the item number within the document referred to in DocumentIdentifier (e.g. contract number item).
PaymentTerms (S)	Default payment terms for the Buyer/SoldTo, which can be stored in the customer master of the Seller. If necessary however, these payment terms can be overwritten in the OrderCreate transaction by the Buyer if necessary.
PaymentMethodCode (E)	The Buyer/SoldTo default method of payment, which can be stored in the customer master of the Seller.
InvoicePreference (S)	Structure through which the Buyer can specify how/when the invoice needs to be sent.
InvoiceMode (E)	Default means for sending the invoice to the Buyer/SoldTo, which can be stored in the customer master of the Seller.
BillingScheduleCode (E)	Default calendar for sending the invoice to the Buyer/SoldTo, which can be stored in the customer master of the Seller.

3.3.4 Example Markup

The following are examples of the Qualification Request business transaction:

3.3.4.1 QualificationRequest

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <QualificationRequest Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1100</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000000</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <QualificationRequestBody> <QualificationRequestProperties> <LanguageCode> <Code Domain="ISO">EN</Code> </LanguageCode> </QualificationRequestProperties> </QualificationRequestBody> </pre>	

3.3.4.1 QualificationRequest, continued

Example Markup	Annotation
<pre> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> </QualificationRequestProperties> <QualificationRequestPartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">423145908</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </QualificationRequestPartners> <QualificationRequestDetails> <BuyerReference> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>BA4523</DocumentIdentifier> </DocumentReference> </BuyerReference> <InvoicePreference> <InvoiceMode CommunicationMode="Fax"/> <BillingScheduleCode> <Code Domain="LAST DAY OF MONTH"/> </BillingScheduleCode> </InvoicePreference> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> <SICNumber>69357-1</SICNumber> </QualificationRequestDetails> </QualificationRequestBody> </QualificationRequest> </pre>	

3.4 Qualification Response

The Qualification Response transaction functions as the notice to the Marketplace that the registered Buyer is either acknowledged, approved, or denied purchasing access to the Seller through the Marketplace. The data model and example markup for the Qualification Response are documented below:

3.4.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>Properties:</p> <ul style="list-style-type: none"> • Section removed; the elements BuyerIdentifier and SellerIdentifier were replaced by the Buyer and Seller structures within the Partner section. • LanguageCode added with mandatory occurrence. • The structure MarketplaceInformation was added with 0-1 occurrence. <p>Partners:</p> <ul style="list-style-type: none"> • Section added, with structures Buyer (mandatory occurrence) and Seller (mandatory occurrence) <p>Details:</p> <ul style="list-style-type: none"> • The element FinalDestinationCountryCode was added with 0-many occurrences. • Structure StatusInformation was replaced by QualificationStatusInformation structure. • Element Status was replaced by QualificationStatus. • Element Description was changed from 0-1 occurrence to 0-many occurrences. •

3.4.2 Qualification Response Data Model

The following diagrams show the graphical representation of the Qualification Response Data Model:

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

3.4.2 Qualification Response Data Model, continued

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 3.4.2.a: QualificationResponse Structure

The QualificationResponse structure contains a Header and QualificationResponseBody. The QualificationResponse Body section contains sections for QualificationResponseProperties, QualificationResponsePartners, and QualificationResponseDetails.



Figure 3.4.2.b: QualificationResponseProperties structure

The QualificationResponseProperties structure gives general data about the QualificationResponse message.

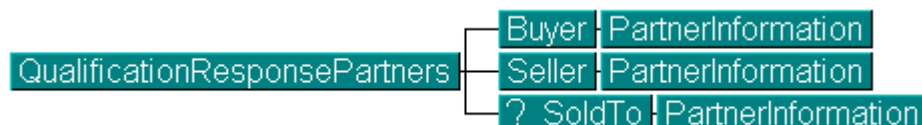


Figure 3.4.2.c: QualificationResponsePartners structure

The QualificationResponsePartners section identifies the Buyer, Seller, and SoldTo parties.



Figure 3.4.2.d: QualificationResponseDetails structure

The QualificationResponseDetails provides the Marketplace with the results of the Buyer's qualification from the Seller.

3.4.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Qualification Response business transaction:

QualificationResponseProperties section:

Element (E) / Structure (S)	Notes
LanguageCode	Code for the language of the Description field (in the details of the message).

QualificationResponsePartners section:

Element (E) / Structure (S)	Notes
Buyer (S)	Buyer who wants to qualify. If the Buyer is not the same as the SoldTo, then it is not the Buyer who should be evaluated for qualification, but the SoldTo.
SoldTo (S)	Filled if the Buyer is not the same as the SoldTo. In this scenario, the Seller will qualify the SoldTo.
Seller (S)	Seller who qualifies.

QualificationResponseDetails section:

Element (E) / Structure (S)	Notes
FinalDestinationCountryCode (S)	Country/countries for which the Seller has qualified the Buyer/SoldTo to sell the product to.
QualificationStatus (E)	Code indicating that the Buyer was qualified or the reason for rejection.
Description (E)	Description of why qualification was accepted/rejected.

3.4.4 Example Markup

The following are examples of the Qualification Response business transaction:

3.4.4.1 QualificationResponse

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <QualificationResponse Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1100</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000000</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <QualificationResponseBody> <QualificationResponseProperties> <LanguageCode> <Code Domain="ISO">EN</Code> </LanguageCode> </QualificationResponseProperties> <QualificationResponsePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">423145908</Code> </PartnerIdentifier> </PartnerInformation> </Buyer> </QualificationResponsePartners> </QualificationResponseBody> </QualificationResponse> </pre>	

3.4.4.1 QualificationResponse, continued

Example Markup	Annotation
<pre> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </QualificationResponsePartners> <QualificationResponseDetails> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> <QualificationStatusInformation> <QualificationStatus>Approved</QualificationStatus> <Description>Approved for orders and RFQ's that have a final destination in the US</Description> </QualificationStatusInformation> </QualificationResponseDetails> </QualificationResponseBody> </QualificationResponse> </pre>	

4.0 Catalog and RFQ

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4.1 Introduction and Scope of Effort

This section of the document defines the data exchange interfaces necessary to support the sharing of product information, for the purpose of populating electronic catalogs to promote, select, purchase and sell chemical products and services via a Marketplace. The following business transactions are discussed in this section:

Product Catalog Update	Adds, updates, or deletes whole products or their attributes and related information (e.g., specifications, descriptions, prices).
Customer Specific Catalog Update	Adds, updates, or deletes whole products or their related pricing information for a specified Buyer at an item/location level.
Request For Quote	Used to request terms different from those available in the Product Catalog.

The Product Catalog Update is used by Sellers to update the Product Catalog on a Marketplace. The Product Catalog contains product information, conditions of sale and list prices viewable by all Registered participants in the Marketplace, except where the Catalog entry is limited to participants specified by the Seller.

The Customer Specific Catalog Update is used by Sellers to update the Customer Specific Catalog on a Marketplace. This catalog contains special pricing arrangements or conditions of sale between Buyers and Sellers viewable only by the Buyer and the Seller involved in the arrangement.

The Request For Quote is a transaction sent from a Buyer to a Seller to request special conditions of sale different from the standard conditions of sale offered in the Product catalog.

Note: The Catalog and RFQ transactions may be used to support communication between a Buyer and Seller through a Marketplace, or direct Business-to-Business (B2B) communication. It is assumed that these transactions will be used in support of a Marketplace, and so the descriptions are written in terms of a Marketplace, but any place in this section (Section 4.0) where “Marketplace” is used, may also be interpreted to include direct Buyer to Seller.

4.1.1 Key Scope Assumptions

Catalog

- Entries in the Product Catalog are accessible by all Registered participants in the Marketplace except where the Catalog entry is limited to participants specified by the Seller. Entries may be limited by a provision in the transaction that cross-references the entry to Customer Specific Catalog.
- Customer Specific Catalog entries do not exist independently of Product Catalog entries (i.e., a Seller does not offer a Buyer a special price on a product if that product is not sold in the Marketplace).
- The catalogs are designed to support on-line buying and selling of chemical products; however, they do not support detailed technical research.

RFQ

- The RFQ is intended for—but not limited to—small companies that need to request simple changes to the standard price or conditions of sale offered in the Product Catalog. It is not the intent that this be used as the first step for complex negotiations. It is expected that Sellers will attempt to automate the RFQ process as much as possible, but for the foreseeable future this will remain mostly a manual process.
- RFQs are not interactive; they generate a response that is sent via alternate means such as fax, telephone, or e-mail. A positive response may be followed up with one or more Customer Specific Catalog Update transactions.
- RFQs are for products listed in the Product Catalog only.

4.1.2 Key Business Model Assumptions

- Each orderable item in the Product Catalog has a unique Seller/SKU combination.
- Within the various Marketplace transactions, the D-U-N-S Number is used to uniquely identify individual Buyers, Sellers, and other Business Partners (such as Carriers).
- All catalog maintenance is the responsibility of the Seller, insofar as updates to content via catalog update transactions are concerned. The Marketplace or other entity that receives the transactions and physically maintains the database is responsible for proper sequencing of updates (by date) and maintaining the integrity of the data.
- Sellers maintain the primary sources of information that are loaded into the catalog. “Master” product information is stored in an ERP (or other) system at the Seller. The Seller is responsible for issuing catalog updates to keep the various Marketplace catalogs accordant.
- The Seller (or participating Marketplace) defines the rules for which the optional fields in the catalogs are populated.

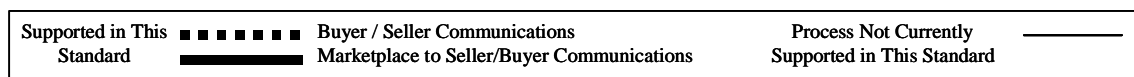
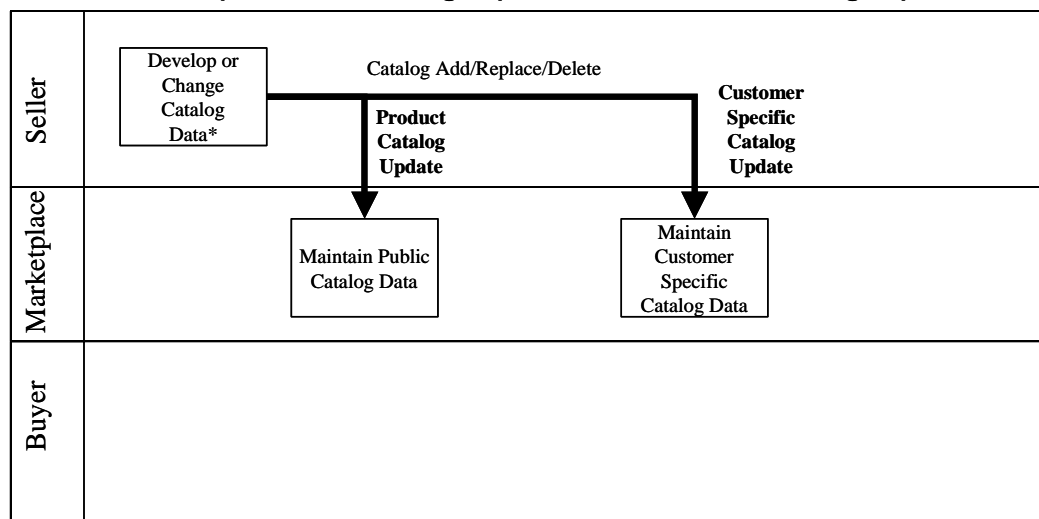
IMPORTANT: Providing standard list price information and Buyer-specific pricing information is a desirable function of the Marketplace. With this assumption in mind, a facility for the transmission of pricing information to be stored in a Marketplace catalog is provided in these transactions. However, transmission, storage, and presentation of product pricing information **are not a requirement** for Marketplaces using these transactions.

4.2 Business Process Diagram with Descriptions

4.2.1 Product Catalog/Customer Specific Catalog

The general business process model for the update of catalog information in a Marketplace is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace and Seller.

Customer Specific Catalog Update-Product Catalog Update



- | | |
|---|--|
| <p>Add</p> <ul style="list-style-type: none"> •New Product •New Seller •New Market Channel for Existing Product | <p>Replace</p> <ul style="list-style-type: none"> •Change – Any Data Element Changes <p>Delete</p> <ul style="list-style-type: none"> •Not Manufacturing Product •Decide Not to Market Product on Marketplace |
|---|--|

Conceptually, there are two components to a catalog. These are individually referenced as the Product Catalog and the Customer Specific Catalog. Sellers update these catalogs as necessary using Product Catalog Update and Customer Specific Catalog Update transactions.

The Product Catalog is where the offered items are defined, along with all key attributes necessary to further qualify or search for the item. It is similar to an Item Master File found in most Sales Order systems.

The Customer Specific Catalog contains Buyer-specific agreed price and conditions of sale. It also allows for multiple pricing such as location-specific pricing for a Buyer.

The Sellers of products offered on the Marketplace perform updates to Product and Customer Specific Catalogs on a Marketplace. Specific scenarios that initiate an update are discussed below, but in general, any change in product information, and/or any new contractual agreements entered into between a Buyer and a Seller should initiate a Customer Specific Catalog Update.

Requirements for catalog content, architecture and other technical definitions are the domain of the Marketplace. Population and maintenance of the actual data in the catalog are the domain of the Sellers. It is anticipated that different emerging Marketplaces have differing business models. In the development of these transactions, and in an attempt to create an “open” standard, various scenarios for catalog management have been incorporated.

4.2.1 Product Catalog/Customer Specific Catalog, continued

<p>Marketplace Model</p>	<p>The most likely scenario is that the Marketplace maintains the Product Catalog and Customer Specific Catalogs on behalf of the Sellers and Buyers. In this case, Sellers transmit Update transactions to the Marketplace, which implements updates to the catalogs.</p>
<p>B2B Model</p>	<p>In a B2B situation, catalogs may be resident at either the Seller or Buyer location. If resident at the Buyer, the Seller transmits updates to the Buyer, who implements the updates to the catalogs. If resident at the Seller, the need for Update transactions becomes less clear because their use becomes a local system design decision. For example, one Seller may choose to use these transactions to promote a common interface for all divisions within the company that need to update catalog information, while another may specify their own internal process.</p>

Product Catalog Update

The Product Catalog is where the offered item is defined with all key attributes necessary to further qualify or search for the item. It is similar to an Item Master file found in most Sales Order systems.

Just as each implementation of an ERP system (i.e., SAP) is somewhat unique because of differing levels of data capture – it is expected that the different Sellers will populate their catalogs with detail to varying levels (subject to Marketplace rules, if participating in one). Some Sellers may perhaps only define a minimal amount of SKU attributes, while another Seller defines and maintains a much richer file. To accommodate this requirement, much of the data defined in the messages to populate and maintain the catalog is optional.

The Product Catalog Update is a multi-purpose transaction that is intended to serve the following purposes:

- Add – to insert new records into an existing Product Catalog file
- Replace – to update existing records in a Product Catalog file
- Delete – to remove existing records in a Product Catalog file

As changes may be time-dependant, it can be that for one product there are multiple catalog entries, each with different validity dates. It is up to the Marketplace to decide whether change logs are kept. The Delete transaction does not necessary have to physically delete the record, but can make the records no longer visible.

Scenarios for Product Catalog Update

The following scenarios cause Product Catalog Updates and their corresponding actions:

- Seller joins a Marketplace initially – **Add**

oEèi æÈÇ=ç=éçèi ä-iÈ=ÜÈ-Ä-i-äçÖ=Ö=ç="çéÉä=Ñç=Äi äääÈëö-çä=iÜÈ-j ~êâÈíéä-ÄÈ=

A Business Partner is joining the Marketplace as a Seller. This scenario occurs either at the startup of the Marketplace itself, or as the Seller makes the strategic decision to market products via the existing Marketplace. In either case, the Seller needs to do an initial load of the items it offers onto the catalog that is accessed by the Buyers of the Marketplace. The initial load is done using a Product Catalog Update transaction, with the Action set to “Add” for every SKU to be offered on the Marketplace. This assumes the Product Catalog is hosted remotely to the Seller.

- Seller introduces new Products – **Add**

oĒèì áĒĒÇ-íç~äçì = ì óĒĒë-íç-éì êĀŪ~ĕĒ-áĒì =mêçÇì Áí-áíéçÇì Áíáçäë=

A Seller that is already selling on a Marketplace, and already has its Product Catalog populated, develops a new product or configuration (creates a brand new SKU) and elects to market this item via the Marketplace. This scenario involves a simple Product Catalog Update (Action = Add) transaction for the SKUs involved. The internal process necessary to initiate this event, along with the exact timing, is varied and controlled by the Seller. Since the presence of these SKUs on the catalog may be a requirement for potential Buyers to execute Purchase Orders, timing is critical.

- Seller expands Product offering on Marketplace – **Add**

oĒèì áĒĒÇ-íç~äçì = ì óĒĒë-íç-éì êĀŪ~ĕĒ~Āĕç~ÇĒĕ-ê~áŪĒ-çÑmêçÇì Áíë=

A Seller that is already selling on a Marketplace, and already has its Product Catalog populated, decides to increase the total items offered on the Marketplace with additional items. This scenario is likely for many reasons, such as, strategic decisions to expand marketing breadth or depth on a particular Marketplace, mergers and acquisitions by the Seller that provide additional products to be marketed, or as part of an overall migration effort to use electronic Marketplaces. There are many possible reasons a Seller may need to occasionally add SKUs to a Marketplace. For these scenarios, a simple Product Catalog Update (Action = Add) transaction for the SKUs is involved. The internal process necessary to initiate this event, and the exact timing, may be varied and controlled by the Seller. Since the presence of SKUs on the catalog may be a requirement for potential Buyers to execute Purchase Orders, timing is critical.

[Adding Product Catalog Example Markup](#) (See 4.3.4.1)

Scenarios for Product Catalog Update, continued

A Seller that is already selling on a Marketplace, and already has its Product Catalog populated, may change coding associated with an item that is currently offered in the Product Catalog. Sellers make changes to the descriptions, attributes, and other related data of their products for any number of reasons. These internal decisions need to be reflected in the overall data integrity of the internal system and the related Product Catalog records.

The key assumptions relating to catalog updates are summarized at the end of this section - see **General Discussion on Synchronization of Catalog Data**

The Product Catalog (Action = Replace) is designed to provide all possible elements to be changed. It is possible to use this transaction to convey only those items that have changed and their corresponding new data. In this scenario, the receiving system or Marketplace needs to recognize that the elements that are contained in the message need to be updated for the product defined. It is also possible to provide all data relevant to the product so that the receiving system does a delete/replace function to achieve the same result. The decision on the level of data necessary to achieve an update is driven by the needs of the specific Marketplace. These transactions accommodate either design and do not mandate which method must be used.

The presence of synchronized product information on the catalog with current and up-to-date internal codes may be a requirement for potential Buyers to execute Purchase Orders, which means that timing is critical.

As changes may be time-dependant, it is possible that there are multiple catalog entries for one product, each with different validity dates. It is up to the Marketplace to decide whether change logs are kept.

[Replacing Product Catalog Example Markup](#) (See 4.3.4.2)

Scenarios for Product Catalog Update, continued

- Seller discontinues a product – **Delete**

A Seller that is already selling on a Marketplace, and already has its Product Catalog populated, discontinues a product or configuration (deletes an SKU) and therefore must reflect this in the offerings via the Marketplace. This scenario involves a simple Product Catalog Update (Action = Delete) transaction for the SKUs involved. The internal process necessary to initiate this event, along with the exact timing may be varied and controlled by the Seller. Since the presence of these SKUs on the catalog allows potential Buyers to execute Purchase Orders, timing is critical. Timely Deletes ensure potential Buyers are not misled into thinking a Seller is still offering Products it has in fact discontinued.

- Seller elects to remove an item from Marketplace – **Delete**

A Seller that is already selling on a Marketplace, and already has its Product Catalog populated, decides to restrict the total items offered on the Marketplace by deleting one or more items. This scenario is likely for many reasons, which include strategic decisions to narrow marketing breadth or depth on a particular Marketplace, divestitures of business units or Product lines by the Seller which limit products to be marketed, part of an overall strategy/migration effort to reduce the use of electronic Marketplaces, shifting from one Marketplace to another for competitive reasons. There are many possible reasons a Seller may need to occasionally delete products or particular SKUs from a Marketplace. For these scenarios, a simple Product Catalog Update (Action = Delete) is involved. The internal process necessary to trigger this event, along with the exact timing may be varied and controlled by the Seller. Since the presence of these SKUs on the catalog allows potential Buyers to execute Purchase Orders, timing is critical. Timely Deletes ensure potential Buyers are not misled into thinking a Seller is still offering products it has in fact stopped selling through the Marketplace. [Deleting Product Catalog Example Markup](#) (see 4.3.4.3)

Customer Specific Catalog Update

The Customer Specific Catalog contains Buyer-specific agreed price and conditions of sale. It also allows for multiple pricing such as location-specific pricing for a Buyer. Therefore, entries are not available for viewing by all Registered participants in the Marketplace, only those participants for whom the special pricing is intended. The Customer Specific Catalog is meant to facilitate the contractual agreements in B2B relationships. It is not assumed that Customer Specific data is a mandatory requirement of the Marketplace; however, it provides for the storage and maintenance of this level of data in the event that it is relevant.

These transactions do not assume that there are two separate and distinct physical catalogs, or does it assume where these files are physically resident. Conceptually, a Seller may maintain a single catalog that contains list pricing as well as contractual pricing, host this catalog internally or externally, and these transactions should accommodate that choice.

Customer Specific Catalog Update, continued

The purpose of logically separating into “Product” and “Customer Specific” is to accommodate the different emerging business models and expected Marketplace functions. In a Business-to-Consumer model (B2C), as well as a “Big Business-to-little business” model (B2b) many Buyers are looking to procure commodity items from Sellers using searchable catalogs that typically contain list pricing. Many of the emerging Chemical Marketplaces are expected to cover the contract business space where Buyers and Sellers already conduct commerce for large volumes of pre-determined product over defined time periods. This activity is prevalent in the Chemical Industry, and this emerging B2B Model was adopted for these transactions to support the “Customer Specific Catalog” concept.

By providing public versus private content, and using different transactions accordingly, the transactions are able to meet the various needs currently envisioned within the rapidly developing Marketplace environment.

The Customer Specific catalog update is similar to the Product Catalog Update in that it is also a multi-purpose transaction intended to serve the following purposes:

- Add –insert new records into an existing Customer Specific Catalog file
- Replace –update existing records in a Customer Specific Catalog file
- Delete –remove existing records in a Customer Specific Catalog file

As changes may be time-dependant, it is possible that there are multiple catalog entries for one product, each with different validity dates. It is up to the Marketplace to decide whether change logs are kept. The Delete transaction does not have to physically delete the record, but can make the records no longer visible.

Scenarios for Customer Specific Catalog Update

Because the content and purpose of the Product Catalog and Customer Specific Catalog are different, the causes and effects relative to these are different. Conceptually, the Product Catalog contains general information to be used by generic Marketplace Buyers, and Customer Specific Catalog items are generally a result of a negotiated process that may have been initiated by a Request for Quote.

The following scenarios outline causes for Customer Specific Catalog Updates and their corresponding actions:

- Seller joins a Marketplace initially – **Add**

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A Business Partner is joining the Marketplace as a Seller. This scenario occurs either at the startup of the Marketplace itself, or as the Seller makes the strategic decision to market products via the existing Marketplace. In either case, the Seller needs to do an initial load for the items already covered by existing contracts for Buyers already established on the Marketplace. To facilitate this, each product covered by a Buyer specific price or conditions of sale that may be potentially ordered must be loaded via a Customer Specific Update (Action = Add) transaction. These transactions must follow the load of the Product Catalog Update for each SKU, since the Product Catalog acts as parent to the Customer Specific Catalog records. This assumes the Customer Specific Catalog is hosted remotely to the Seller.

Note: This only needs to be done for Products of potential Buyers on the Marketplace. As new Buyers join the Marketplace, if any contracts exist for that relationship, those Customer Specific Catalog updates are processed at that time.

Scenarios for Customer Specific Catalog Update, continued

- Seller accepts an RFQ – **Add**

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A Seller that is already selling on a Marketplace, and already has its Product Catalog populated, receives, and accepts an RFQ from a potential Buyer. Upon acceptance of this, a Customer Specific Catalog Update (Action = Add) is issued to allow this agreement to be executed in the forthcoming orders from this Buyer.

The internal process necessary for this event, along with the exact timing may be varied and controlled by the Seller. Since the presence of these records on the Customer Specific Catalog may be a requirement for potential Buyers to execute correct Purchase Orders, timing is critical.

- Seller introduces new Products – **Add**

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A Seller that is already selling on a Marketplace, and already has its Product Catalog populated, develops a new product or configuration (creates a brand new SKU) and elects to market this item via the Marketplace. Once the pre-requisite Product Catalog Update (Action = Add) transaction has been processed, then Buyer specific pricing and conditions of sale can be enabled immediately through a Customer Specific Catalog Update (Action = Add). The internal process necessary for this event, along with the exact timing may be varied and controlled by the Seller. Since this is a new product, it is likely that the occurrence of pre-arranged Buyer specific pricing and conditions of sale for these items may be limited. Since the presence of these SKUs on the catalog may be a requirement for contract Buyers to execute properly priced Purchase Orders, timing is critical.

- Seller expands product offering on Marketplace for items which are covered by contracts or agreements previously negotiated outside the Marketplace – both Buyer and Seller are Marketplace participants – **Add**

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A Seller that is already selling on a Marketplace, and already has its Product Catalog populated, decides to increase the total items offered on the Marketplace by adding additional items. This scenario is likely for many reasons, such as, strategic decisions to expand marketing breadth or depth on a particular Marketplace, mergers and acquisitions by the Seller that provide additional Products to be marketed, part of an overall migration effort to use electronic Marketplaces For these scenarios, after the Product Catalog Update (Action = Add) transaction for the SKUs is processed, a subsequent Customer Specific Catalog Update (Action = Add) must follow. The internal process necessary for this event, along with the exact timing may be varied and controlled by the Seller. Since the presence of these SKUs on the catalog may be a requirement for contract Buyers to execute properly priced Purchase Orders, timing is critical.

[Adding Customer Specific Catalog Update Example Markup](#) (See 4.4.4.1)

Scenarios for Customer Specific Catalog Update, continued

- Seller changes price, conditions of sale or other item attributes covered by an agreement – **Replace**

A Seller that is already selling on a Marketplace, and already has its Customer Specific Catalog populated, changes any coding associated with an item that is currently offered on the Customer Specific Catalog. A key assumption is that the Seller is maintaining the primary source for all catalog data within internal systems and files. Therefore, in order to keep these files and data elements in synchronization with those presented on the Customer Specific Catalog, a process is required to identify when updates occur on the internal records which need to be reflected within the Marketplace Customer Specific Catalog. Assuming this process is available, the designated source data elements need to be monitored for changes. Upon changes to any of these designated elements, a Customer Specific Catalog (Action = Replace) transaction is generated by the Seller and transmitted to the Marketplace, or the body controlling the Customer Specific Catalog.

Likely scenarios that may drive this event include:

- A contract is lapsing and the Seller wants to extend the current price
 - Note:** This scenario assumes the Marketplace deletes or otherwise makes unavailable the Customer Specific Catalog records upon expiration of the contract date. If this is not the case and the expiration date acts only as information, then this scenario does not trigger the need for the Customer Specific Catalog Update (Action = Replace) transaction since a lapsed contract is still “valid.”
- A contract price is re-negotiated during the term of the contract – Buyer agrees

The Customer Specific Catalog (Action = Replace) is designed to provide all data relevant to the agreement so that the receiving system does a delete/replace function with respect to that agreement.

Since current and up-to-date internal codes, including Buyer specific pricing, along with the presence of synchronized data on the catalog may be a requirement for contract Buyers to execute properly priced Purchase Orders, timing is critical.

[Replacing Customer Specific Catalog Update Example Markup](#) (See 4.4.4.2)

- Seller discontinues a product – **Delete**

A Seller that is already selling on a Marketplace, and has Customer Specific Catalog entries for an SKU that becomes discontinued must be reflected in the Marketplace by processing Customer Specific Catalog Update (Action = Delete) transactions. This scenario involves a simple Customer Specific Catalog Update (Action = Delete) transaction for each of the contracts associated with the SKUs involved. These should be processed prior to the Product Catalog Update deletes of the parent items. The internal process necessary for this event along with the exact timing may be varied and controlled by the Seller. Since the presence of these SKUs on the catalog allows contract Buyers to execute Purchase Orders, timing is critical. Timely Deletes ensure Buyers are not misled into thinking a Seller is still offering products it has in fact discontinued.

Scenarios for Customer Specific Catalog Update, continued

- Seller elects to remove an item from Marketplace – **Delete**

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A Seller that is already selling on a Marketplace, and already has its Customer Specific Catalog populated, decides to restrict the total items offered on the Marketplace by deleting one or more items. This scenario is likely for many reasons, such as, strategic decisions to narrow marketing breadth or depth on a particular Marketplace, divestitures of business units or product lines by the Seller which limit Products to be marketed, part of an overall strategy/migration effort to reduce the use of electronic Marketplaces, shifting from one Marketplace to another for competitive reasons. There are many possible reasons a Seller may need to occasionally delete SKUs from a Marketplace. For these scenarios, Customer Specific Catalog Update (Action = Delete) transactions for each of the contract items for each of the SKUs involved is necessary. The internal process necessary to trigger this event, along with the exact timing may be varied and controlled by the Seller. Since the presence of these SKUs on the catalog allow contract Buyers to execute Purchase Orders via this Marketplace, timing is critical. Timely Deletes ensure potential Buyers are not misled into thinking a Seller is still offering products it has in fact discontinued from the Marketplace.

- Seller elects to revoke the buyer’s qualification for a product – **Delete**

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A Seller who is already selling on a Marketplace and has a Customer Specific Catalog entry for an SKU with a Buyer can decide that the special agreement with the Buyer to purchase the product at Buyer-specific pricing is no longer valid. There are many possible reasons a Seller may wish to do so. The internal process necessary for this event, and the responsible parties, along with the exact timing may be varied and controlled by the Seller. Since the presence of these SKUs on the catalog allow contract Buyers to execute Purchase Orders via this Marketplace, timing is critical. Timely deletes ensure the Buyer can no longer create a purchase order from the Customer Specific Catalog.

- Seller revokes a Buyers’ qualification from the Marketplace - **Delete**

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It is possible for a Seller to remove the permission of a Buyer to place a Customer Order or Request For Quote. Under this scenario, no further Purchase Orders or Request for Quotes are processed or entered into the Marketplace. Removal of existing Customer Specific Catalog records is good practice, but not mandatory. However, depending upon the rules and practices of the particular Marketplace, Customer Specific Catalog Update (Action = Delete) transactions may be necessary.

Scenarios for Customer Specific Catalog Update, continued

- Marketplace revokes a Buyers' registration from the Marketplace - **Delete**

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It is possible for a Marketplace to remove the permission of a Buyer to participate. Under this scenario, no further Purchase Orders are processed or entered into the Marketplace. Removal of existing Customer Specific Catalog records is good practice, but not mandatory. However, depending upon the rules and practices of the particular Marketplace, Customer Specific Catalog Update (Action = Delete) transactions may be necessary.

[Deleting Customer Specific Catalog Update Example Markup](#) (See 4.4.4.3)

General Discussion on Synchronization of Catalog Data

A key assumption is that the Seller is maintaining the primary source for all catalog data within internal systems and files. Therefore, in order to keep these files and data elements in synchronization with those presented on the Marketplace catalog(s), a process is required to identify when updates occur on the internal records which need to be reflected within the Marketplace catalog(s). Assuming this process is available, the designated source data elements need to be monitored for changes. New records need to generate Product Catalog (Action=Add) or Customer Specific Catalog Update (Action = Add) transactions. Changes to any of these designated elements must generate a Product Catalog (Action = Replace), or a Customer Specific Catalog (Action = Replace) transaction by the Seller. Expirations of these agreements or deletions for other reasons must generate Product Catalog (Action=Delete) or Customer Specific Catalog Update (Action = Delete) transactions, and be transmitted to the Marketplace, or the body controlling the Customer Specific Catalog.

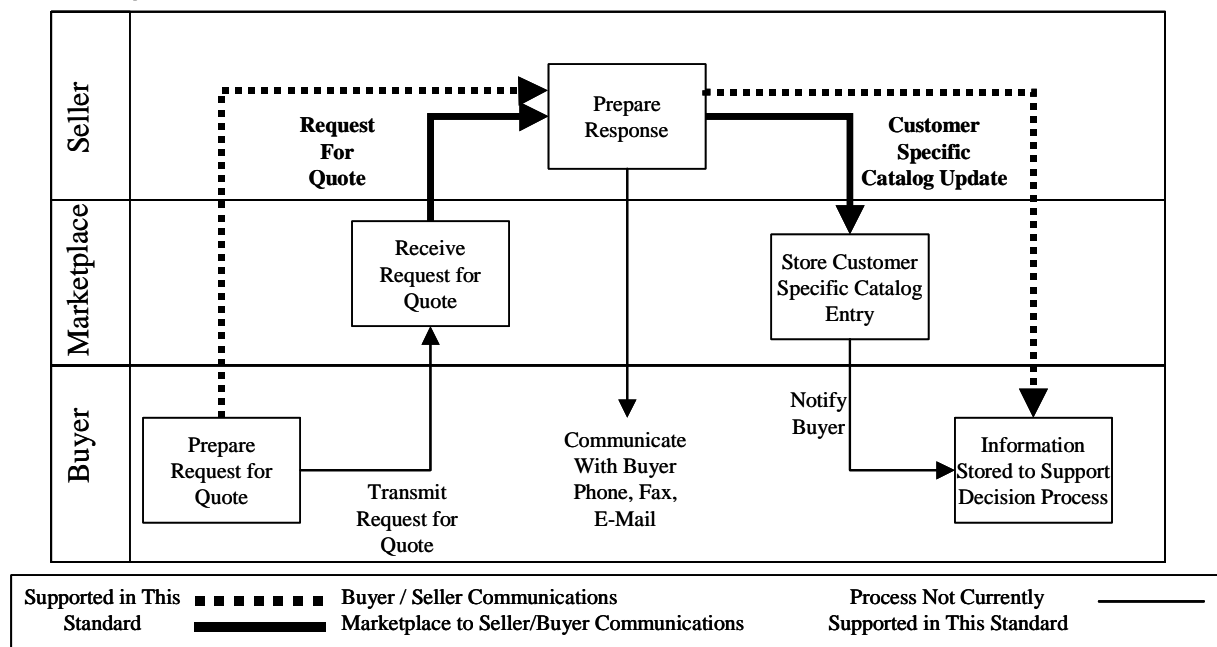
The Product Catalog is expected to be fairly stable, and once a Seller loads it originally, maintenance should be an infrequent event. Identifying the need to create a Product Catalog (Action = Replace) transaction, and then correctly populating and transmitting it into the Product Catalog are necessary for proper catalog maintenance. Without these processes in place, the Product Catalog is not synchronized with the internal files resulting in downstream problems as Purchase Orders are placed via the Marketplace. To properly manage this process a Seller may require an automated process to monitor changes to the source system and create corresponding Product Catalog (Action = Replace) records. Without such a process, a Seller risks lack of synchronization if they are participating in any Marketplace at a significant level. As Marketplace activity increases, the need for automated synchronization becomes critical. If a Seller offers the same SKU on multiple Marketplaces, it may be necessary to generate multiple occurrences of the Product Catalog transaction, depending on the hosting strategies deployed.

Conversely, the Customer Specific Catalog is expected to be much more dynamic, and Sellers need to address this issue. The maintenance involved to keep the various Buyer specific pricing and other conditions of sale is more intense. The need to maintain accurate and timely Customer Specific Catalog records may play a critical role in a Seller's success of the Marketplace environment. In addition, this issue may determine if the Marketplace itself succeeds, because if the Sellers collectively do not maintain the Customer Specific Catalog to the necessary degree, potential Buyers may not consider the Marketplace viable.

4.2.2 Request for Quote (RFQ)

The general business process model for the Request for Quote is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace and Seller. Dashed thick lines indicate the Buyer to Seller transactions. Solid thin lines illustrate the Buyer to Marketplace transactions (communications can be via telephone, fax, e-mail, browser, and use of the Chemical eStandards).

Request for Quote



In general, the Request For Quote (RFQ) transaction is a mechanism by which a Buyer participating in the Marketplace may request pricing or conditions of sale different from those currently available to that Buyer.

The RFQ process is Buyer initiated. The Buyer determines future demand requirements and Sellers for these items using a variety of methods. The Buyer obtains the standard list price and conditions of sale for the product from the Seller (or from the Product Catalog on Marketplace, if the Marketplace's business model includes this service). If these are acceptable, the Buyer may place an Order. If not, the Buyer may send an RFQ to request a different price or conditions. If accepted (the Seller agrees to enter a special arrangement with the Buyer), the Customer Specific Catalog may be updated.

4.2.2 Request for Quote (RFQ), continued

Marketplace Model	If a Marketplace is acting as an intermediary, then the RFQ transaction specified herein flows from the Marketplace to the Seller because of an initiating Buyer action. The method by which the Buyer does this is not specified as part of the RFQ design since a Buyer could log on to a Marketplace web site via a browser to “build” an RFQ and then press a “send” button. If accepted, then a Customer Specific Catalog Update flows back to the Marketplace to insert Buyer specific pricing in the catalog. (Please see the section on Catalog design for more detail).
B2B Model	In a B2B situation, the Buyer builds the RFQ transaction and transmits it directly to the Seller. If accepted, the Customer Specific Catalog is updated to reflect the Buyer specific arrangement. This may include a Customer Specific Catalog Update if the catalog is resident at the Buyer. (Please see the section on Catalog design for more detail.)

Scenarios for Request for Quote

An RFQ always begins with Buyer initiation. There are three possible outcomes: The Seller rejects all line items in the RFQ; accepts all lines items in the RFQ; or accepts some line items in the RFQ and rejects others.

- Buyer initiates an RFQ which is rejected by the Seller in its entirety
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The RFQ flows to the Seller and is declined by the Seller. The Seller contacts the Buyer and informs the Buyer of the RFQ decision. This communication may occur in various forms (telephone, fax, e-mail, etc.). No other action is required.

- Buyer initiates an RFQ which is accepted by the Seller in its entirety
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The RFQ flows to the Seller and is accepted in its entirety by the Seller. The Seller contacts the Buyer and informs the Buyer of the RFQ decision. This communication may occur in various forms (telephone, fax, e-mail, etc.). If a Customer Specific Catalog is involved, the Seller issues one or more Customer Specific Catalog Updates that are sent to whichever Business Partner maintains the Customer Specific Catalog for this Buyer and Seller.

- Buyer initiates an RFQ which is accepted by the Seller in part
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The RFQ flows to the Seller and some individual line items are declined. The Seller contacts the Buyer and informs the Buyer of the RFQ decision. This communication may occur in various forms (telephone, fax, e-mail, etc.). If a Customer Specific Catalog is involved, the Seller issues one or more Customer Specific Catalog Updates for those items that were accepted. The transactions are sent to whichever Business Partner maintains the Customer Specific Catalog for this Buyer and Seller.

[Request for Quote Example Markup](#) (See 4.5.4.1)

4.3 Product Catalog Update

The Product Catalog Update updates the entries in a Product Catalog. This transaction adds, updates or deletes whole products or their attributes and related information (e.g., specifications, descriptions, and prices).

4.3.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>Properties</p> <p>The structure CatalogEffectiveDates (EffectiveDates in Release 1.0) was shifted from the properties to the details section. In addition, it is now linked to the structure DateTimeRange.</p> <p>The element CatalogIdentifier was added with 0-1 occurrence.</p> <p>Partners</p> <p>The structure Seller data (Supplier in Release 1.0) was shifted from details to partner section. The structure Seller is now linked to the PartnerInformation structure.</p> <p>ProductLineItem</p> <p>The element LineNumber was added.</p> <p>The structures Supplier and Manufacturer have been replaced by one structure ProductInformation with mandatory occurrence, which contains several substructures (among which are ProductIdentification and ManufacturerInformation).</p> <p>The element FullDescription changed from one occurrence to 1-many occurrences.</p> <p>The element ShortDescription was replaced by the element ProductDescription within the structure ProductIdentification.</p> <p>The element ParametricDataset was removed because it is replaced by the structure ProductSpecifications that is within the structure ProductInformation.</p> <p>The element TradeName was replaced by the element MarketingName within the ProductInformation structure.</p> <p>The structure Codes was removed, as it is replaced by the structure ProductClassificationCode (with 0-many occurrences) within the ProductInformation structure.</p> <p>The element OrderLeadTime was changed into a structure linked to the structure Duration.</p>

4.3.1 Release Information, continued

Jan. 2001	<p>The element RequestedPrice has been replaced by a new structure ProductCatalogPriceData with 0-many occurrences.</p> <p>The element PriceEffectiveDate has been changed into a structure (linked to the structure DataTimeRange) and has been put inside the ProductCatalogPriceData structure</p> <p>The element PriceExpiryDate has been removed as it is covered by the PriceEffectiveDate structure</p> <p>The elements MinimumOrderQuantity and ApproximateWeight have been changed into structures, both linked to the element Measurement.</p> <p>The element PackageCode was replaced by the element PackagingType within the structure PackagingInformation within the ProductInformation structure.</p> <p>The element StandardShippingPackageNumber was replaced by the structure PackagingQuantity within the structure PackagingInformation</p> <p>The element GlobalUnitOfMeasureCode was removed as it is covered by the element Measurement, linked to different quantity fields.</p> <p>The element SpecialHandlingInstruction was replaced by the element SpecialInstructions, and changed from 0-1 occurrence to 0-many occurrences.</p> <p>The element ProductAvailableInCountries was replaced by the structure NotAvailableInCountryCode.</p> <p>The element CountryOfOrigin was renamed into CountryOfOriginCode and changed from 0-1 occurrence to 0-many occurrences.</p> <p>The element ShelfLife changed into a structure linked to the structure Duration.</p> <p>The element DangerousGoodsIndicator was removed (there should be a general disclaimer in the catalog, referring to the need to check for an Material Safety Data Sheet.</p> <p>The element Number within the structure MSDS has been replaced by the element DocumentIdentifier.</p> <p>The element RestrictedOrder was renamed into RestrictedOrderLFlag</p> <p>The element Restrictions changed from 0-1 occurrence to 0-many occurrences.</p> <p>The element HandelingCertificationRequired was replaced by the structure HandlingCertificationRequiredCode, and changed from 0-1 occurrence to 0-many occurrences.</p>
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4.3.1 Release Information, continued

Jan. 2001	<p>The elements PriceModifierDown and PriceModifierUp moved into the ProductCatalogPriceData structure.</p> <p>The structure RoundingFactor was added, linked to the element Measurement with 0-1 occurrence.</p> <p>The new boolean element LimitDisplay was added.</p>
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4.3.2 Product Catalog Update Data Model

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 4.3.2.a: ProductCatalogUpdate structure

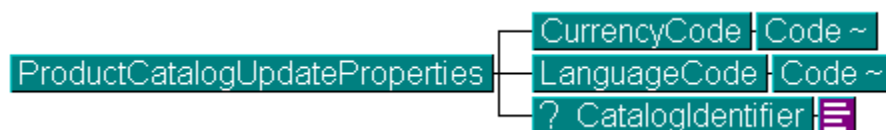


Figure 4.3.2.b ProductCatalogUpdateProperties structure

The ProductCatalogUpdateProperties structure contains general information about all line items in the transaction. The Currency is the default currency and may be overridden with the currency on the line item level.

4.3.2 Product Catalog Update Data Model, continued

ProductCatalogUpdatePartners | Seller | PartnerInformation

Figure 4.3.2.c ProductCatalogUpdatePartners structure

The ProductCatalogUpdatePartners section only contains information about the seller since the other parties that may be involved in future transactions are not yet known.



Figure 4.3.2.d ProductCatalogUpdateProductLineItem structure

The ProductCatalogUpdateProductLineItem structure contains the detailed information for the catalog posting. See the appendix of common elements for a detailed breakdown of the Pricing structure and the ProductInformation structure.

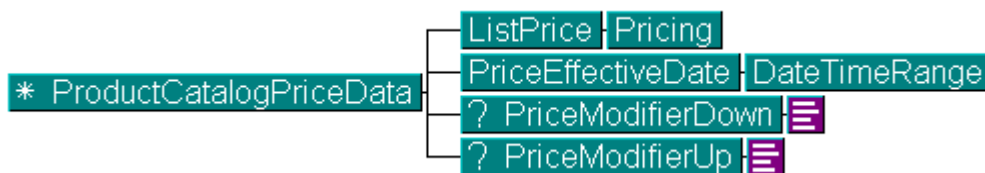


Figure 4.3.2.e ProductCatalogPriceData structure

4.3.3 Data Elements and Attributes

The following tables list the data elements and attributes for Product Catalog Update business transaction:

ProductCatalogUpdateProperties:

Element (E)/Structure (S)	Notes
LanguageCode (E)	Default language for all texts.
CurrencyCode (E)	Default currency, which can be overwritten by the currency within the ProductCatalogPriceData structure.
CatalogIdentifier (E)	Identifier for the specific catalog, incase multiple catalogs are used on the Marketplace.

ProductCatalogUpdatePartners:

Element (E)/Structure (S)	Notes
Seller (S)	Owner of Product Catalog entry.

ProductCatalogUpdateDetails:

Element (E)/Structure (S)	Notes
LineNumber (E)	Line number of the document
ProductInformation (S)	General structure with information on the product as used by the Seller
ProductIdentification (S)	Identification structure
ProductIdentifier (E)	Number as used by the Seller to identify the product at stockkeeping unit level
ProductDescription(E)	Description as used by the Seller for the product
ProductGradeDescription(E)	Description as used by the Seller for the product grade. Often used when, for example, a product has been diluted, or is not exactly within quality specifications
ProductSpecifications (S)	List of attributes describing the product, which allow for selection of products
ProductSpecificationName (E)	Name of attribute
ProductSpecificationValue (E)	Value of attribute
ProductSpecificationUnit (E)	Unit of attribute
ProductSpecificationMethod (S)	Method used to determine the value of the attribute
ProductClassificationCode (S)	Used to specify different codes, e.g. UNSPSC, <u>eCl@ss</u> , EAN, IsoChemical, CASCode, GTN etc. Code list is linked to it.
PackagingInformation (S)	Structure used to specify all packaging related information
ProductIdentification (S)	Identification structure for the packaging (e.g., number and description as used by the Seller for the packaging)

ProductCatalogUpdateDetails, continued

Element (E)/Structure (S)	Notes
PackagingQuantity (E)	Number of units of the packaging, linked to the packaging type
PackagingType (E)	Type of the packaging, e.g. drum, pallet
PackagingWeight (S)	Weight of the empty packaging
PackagingLabel (E)	Specific label which is on the packaging
SpecialInstructions (E)	Any instructions (type of instructions is linked via attribute list) for the packaging
PackagingInformation (S)	Recurring element, to specify for example those packaging where inside the pack there is another type of packaging like sachets in a box, which are inside a carton
CountryOfOriginCode (S)	Code of the country where the product is manufactured
MarketingName (E)	Used to specify tradenames, brandnames etc.
ManufacturerInformation (S)	Structure to specify information on manufacturer of the product
PartnerName (E)	Short name of the manufacturer
PartnerInformation (S)	Structure detailing partner information on the manufacturer, including D-U-N-S number, addresses etc.
ProductIdentification (S)	Structure which includes the product number and description as used by the manufacturer
ProductInformation (S)	Recurring element, used to specify components/products linked to the saleable end product
CatalogEffectiveDates (S)	From and To date which determine when the catalog entry is valid for display
FullDescription (E)	Complete description of the product
Keywords (S)	List of keywords which can be used to search for the product
Keyword (E)	Individual keyword
ProductFamilyName (E)	Name of product family to which the product belongs
OrderLeadTime (S)	General lead time for ordering, which excludes transportation
ProductCatalogPriceData (S)	Structure containing different types of data which determine the price of the product
ListPrice (S)	Structure containing the list price of the product
Pricing (S)	Structure containing the price of the product
MonetaryAmount (E)	Amount plus currency (attribute)
PriceBasis (S)	Quantity plus unit for which the price (MonetaryAmount) is quoted
PriceReason(E)	Description specifying further information on the price, like special offers
PriceEffectiveDate (S)	Effective From and To date which determine when the ListPrice is valid
DateTimeRange (S)	From and To date
PriceModifierDown (E)	Conditions specifying when the list price reduces, like quantity discounts

ProductCatalogUpdateDetails, continued

Element (E)/Structure (S)	Notes
PriceModifierUp (E)	Conditions specifying when the list price increases, like additional costs
MinimumOrderQuantity (S)	Minimum quantity plus unit which have to be purchased
ApproximateWeight (S)	Approximate gross weight (including unit) of the product in it's standard form of packaging (e.g., gross weight in pounds of 4 drums on a pallet)
SpecialInstructions (E)	Any instructions (type of instructions is linked via attribute list) for the product, like instructions on how to handle the product.
NotAvailableInCountryCode (S)	Lists only those countries where the product cannot be sold. If no country is listed, product can be, in principle, sold to all countries, provided legal reasons don't prevent it.
ShelfLife (S)	Number identifying shelf life for the product (includes unit, which is mostly days)
TechnicalSpecificationsURL (E)	URL which allow direct link to a web site containing the technical specifications of the product
MSDS (S)	Structure containing information on the Material Safety Data Sheet
DocumentIdentifier (E)	Number identifying the Material Safety Data Sheet
URL (E)	URL which allow direct link to a web site containing the Material Safety Data Sheet of the product
RestrictedOrderFlag (E)	Flag indicating that there are restrictions to the product, like that the order of the product needs to be manually verified
Restrictions (E)	List of restrictions linked to buying the product
HandlingCertificationRequiredCode (S)	Code list identifying type of certifications required to handle the product
Regulations (E)	List of legal regulations linked to the product, like Export Compliance.
RoundingFactor (S)	Quantity to which an order needs to be rounded. When for example the minimum order quantity equals 20 MT, and the rounding factor equals 1 MT, then one can only buy the product in increments of 1 MT, provided the quantity is higher or equal to 20 MT.
LimitDisplayFlag (E)	Boolean, where the default is 'N.' If set to 'Y,' the product catalog entry should be accessible only by those partners for whom also a customer-catalog entry exists.

4.3.4 Example Markup

The following are examples of the Product Catalog Update business transaction:

4.3.4.1 Adding Product Catalog

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <ProductCatalogUpdate Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1100</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000000</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <ProductCatalogUpdateBody> <ProductCatalogUpdateProperties> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <LanguageCode> <Code Domain="ISO">EN</Code> </LanguageCode> </ProductCatalogUpdateProperties> <ProductCatalogUpdatePartners> </pre>	

4.3.4.1 Adding Product Catalog, continued

Example Markup	Annotation
<pre> <Seller> <PartnerInformation> <PartnerName/> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">296327491</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Clinton</ContactName> <ContactDescription>eBusiness Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>302</AreaCode> <PhoneNumber>9999999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1010 34th Street</AddressLine> <CityName>New York City</CityName> <StateProvince>New York</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </ProductCatalogUpdatePartners> <ProductCatalogUpdateDetails> <ProductCatalogUpdateProductLineItem Action="Add"> <LineItemNumber>1</LineItemNumber> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">PR-32A445</ProductIdentifier> <ProductDescription>Colourant Alpha 1</ProductDescription> <ProductGradeDescription>1-45/2</ProductGradeDescription> </ProductIdentification> <ProductSpecifications> <ProductSpecificationName>Low Yellow Scale</ProductSpecificationName> <ProductSpecificationValue>45/2</ProductSpecificationValue> <ProductSpecificationUnit>mg/1000 ltr</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">D-4256</Code> </ProductSpecificationMethod> </ProductSpecifications> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier"/> </ProductIdentification> <PackagingQuantity>25 kgs</PackagingQuantity> <PackagingType>drums</PackagingType> <PackagingWeight> <Measurement UnitOfMeasureCode="KG"/> </PackagingWeight> <PackagingLabel>Brown with Blue Crosses</PackagingLabel> <SpecialInstructions InstructionType="ShipperInstructions">Do not mix with other food colourants</SpecialInstructions> </pre>	

4.3.4.1 Adding Product Catalog, continued

Example Markup	Annotation
<pre> </PackagingInformation> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <MarketingName Registration="RegisteredTradeMark"/> </ProductInformation> <CatalogEffectiveDates> <DateTimeRange> <FromDateTime TimeZone="EST">20010101</FromDateTime> <ToDateTime TimeZone="EST">20013112</ToDateTime> </DateTimeRange> </CatalogEffectiveDates> <FullDescription>Food Additive</FullDescription> <Keywords> <Keyword>Coloring</Keyword> <Keyword>Yellow</Keyword> <Keyword>Food</Keyword> </Keywords> <ShelfLife> <Duration TimeUnit="Month">24</Duration> </ShelfLife> <LimitDisplayFlag>N</LimitDisplayFlag> </ProductCatalogUpdateProductLineItem> </ProductCatalogUpdateDetails> </ProductCatalogUpdateBody> </ProductCatalogUpdate> </pre>	

4.3.4.2 Replacing Product Catalog

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <ProductCatalogUpdate Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1100</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000000</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> </Header> </ProductCatalogUpdate> </pre>	

4.3.4.2 Replacing Product Catalog, continued

Example Markup	Annotation
<pre> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <ProductCatalogUpdateBody> <ProductCatalogUpdateProperties> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <LanguageCode> <Code Domain="ISO">EN</Code> </LanguageCode> </ProductCatalogUpdateProperties> <ProductCatalogUpdatePartners> <Seller> <PartnerInformation> <PartnerName/> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">296327491</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Clinton</ContactName> <ContactDescription>eBusiness Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>302</AreaCode> <PhoneNumber>9999999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1010 34th Street </AddressLine> <CityName>New York City</CityName> <StateProvince>New York</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </ProductCatalogUpdatePartners> <ProductCatalogUpdateDetails> <ProductCatalogUpdateProductLineItem Action="Update"> <LineItemNumber>1</LineItemNumber> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">PR-32A445</ProductIdentifier> <ProductDescription>Colourant Alpha 1</ProductDescription> <ProductGradeDescription>1-45/2</ProductGradeDescription> </ProductIdentification> </ProductInformation> </ProductCatalogUpdateProductLineItem> </ProductCatalogUpdateDetails> </ProductCatalogUpdateBody> </pre>	

<pre></ProductIdentification> <ProductSpecifications> <ProductSpecificationName>Low Yellow Scale</ProductSpecificationName></pre>	
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4.3.4.2 Replacing Product Catalog, continued

Example Markup	Annotation
<pre> <ProductSpecificationValue>45/2</ProductSpecificationValue> <ProductSpecificationUnit>mg/1000 ltr</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">D-4256</Code> </ProductSpecificationMethod> </ProductSpecifications> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier"/> </ProductIdentification> <PackagingQuantity>25 kgs</PackagingQuantity> <PackagingType>drums</PackagingType> <PackagingWeight> <Measurement UnitOfMeasureCode="KG"/> </PackagingWeight> <PackagingLabel>Brown with Blue Crosses</PackagingLabel> <SpecialInstructions InstructionType="ShipperInstructions">Do not mix with other food colourants</SpecialInstructions> </PackagingInformation> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <MarketingName Registration="RegisteredTradeMark"/> </ProductInformation> <CatalogEffectiveDates> <DateTimeRange> <FromDate Time="EST">20010101</FromDate> <ToDate Time="EST">20013112</ToDate> </DateTimeRange> </CatalogEffectiveDates> <FullDescription>Food Additive </FullDescription> <Keywords> <Keyword>Coloring</Keyword> <Keyword>Yellow</Keyword> <Keyword>Food</Keyword> </Keywords> <ShelfLife> <Duration TimeUnit="Month">24</Duration> </ShelfLife> <LimitDisplayFlag>N</LimitDisplayFlag> </ProductCatalogUpdateProductLineItem> </ProductCatalogUpdateDetails> </ProductCatalogUpdateBody> </ProductCatalogUpdate> </pre>	

4.3.4.3 Deleting Product Catalog

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <ProductCatalogUpdate Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1100</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000000</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <ProductCatalogUpdateBody> <ProductCatalogUpdateProperties> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <LanguageCode> <Code Domain="ISO">EN</Code> </LanguageCode> </ProductCatalogUpdateProperties> <ProductCatalogUpdatePartners> <Seller> </pre>	

4.3.4.3 Deleting Product Catalog, continued

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName/> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">296327491</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Clinton</ContactName> <ContactDescription>eBusiness Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>302</AreaCode> <PhoneNumber>9999999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1010 34th Street </AddressLine> <CityName>New York</CityName> <StateProvince>New York</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </ProductCatalogUpdatePartners> <ProductCatalogUpdateDetails> <ProductCatalogUpdateProductLineItem Action="Delete"> <LineItemNumber>1</LineItemNumber> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">PR-32A445</ProductIdentifier> <ProductDescription>Colourant Alpha 1</ProductDescription> <ProductGradeDescription>1-45/2</ProductGradeDescription> </ProductIdentification> <ProductSpecifications> <ProductSpecificationName>Low Yellow Scale</ProductSpecificationName> <ProductSpecificationValue>45/2</ProductSpecificationValue> <ProductSpecificationUnit>mg/1000 ltr</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">D-4256</Code> </ProductSpecificationMethod> </ProductSpecifications> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier"/> </ProductIdentification> <PackagingQuantity>25 kgs</PackagingQuantity> <PackagingType>drums</PackagingType> <PackagingWeight> <Measurement UnitOfMeasureCode="KG"/> </pre>	

4.3.4.3 Deleting Product Catalog, continued

Example Markup	Annotation
<pre> </PackagingWeight> <PackagingLabel>Brown with Blue Crosses</PackagingLabel> <SpecialInstructions InstructionType="ShipperInstructions">Do not mix with other food colourants</SpecialInstructions> </PackagingInformation> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <MarketingName Registration="RegisteredTradeMark"/> </ProductInformation> <CatalogEffectiveDates> <DateTimeRange> <FromDate Time="20010101" TimeZone="EST">20010101</FromDate Time> <ToDate Time="20011312" TimeZone="EST">20011312</ToDate Time> </DateTimeRange> </CatalogEffectiveDates> <FullDescription>Food Additive </FullDescription> <LimitDisplayFlag>N</LimitDisplayFlag> </ProductCatalogUpdateProductLineItem> </ProductCatalogUpdateDetails> </ProductCatalogUpdateBody> </ProductCatalogUpdate> </pre>	

4.4 Customer Specific Catalog Update

Customer Specific Catalog Update updates the entries in a Customer Specific Catalog. This transaction adds, updates or deletes whole products or their related pricing information for a specified Buyer at an item/location level.

4.4.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>Properties</p> <ul style="list-style-type: none"> • The CatalogEffectiveDates (EffectiveDates in release 1.0) was shifted from the Properties section to the Details section, and is now linked to the DateTimeRange structure. • The element Currency was removed as it is now an attribute to the element MonetaryAmount that is within the Pricing structure linked to the CustomerCatalogPrice structure. • The element CatalogIdentifier was added with 0-1 occurrence. <p>Partners</p> <ul style="list-style-type: none"> • The structures Seller (Supplier in Release 1.0) and Buyer shifted from the Details section to the Partners section (both with mandatory occurrence) and are linked to the PartnerInformation structure. <p>ProductLineItem</p> <ul style="list-style-type: none"> • The structure ProductInformation has changed completely. It changed from 0-many occurrences to mandatory occurrence, and now contains the structures ProductIdentification, ProductSpecifications, ProductClassificationCode, PackagingInformation, CountryOfOriginCode, MarketingName, ManufacturerInformation, and the recurring ProductInformation. • The structure PriceStructure changed completely. It changed from 0-many occurrences to 1-many occurrences, and now contains the mandatory structure DocumentReference, the optional structure ThirdParty, the element PlannedEndUse (with 0-many occurrences), the structures BuyerContractInformation, ShipmentTerms, TransportMethodCode (all with 0-1 occurrence), the structure CustomerSpecificCatalogPriceData (with 0-many occurrences), the element DutyStatus, the structure CountryOfOriginCode, the structure ShipFrom (all with 0-1 occurrence), the structure ShipTo (which replaces the structure ShipToLocation from phase 1) in an either/or relation with the structure FinalDestinationCountryCode (in a 0-1 occurrence) and the structure ShippingLeadTime (in a 0-1 occurrence).

4.4.1 Release Information, continued

Jan. 2001	<ul style="list-style-type: none"> • The following were added: the element LineNumber (with mandatory occurrence), the structures BuyerProductInformation (linked to the structure ProductIdentification), OrderLeadTime, ShippingServiceLevelCode, SpecialFulfillmentRequestCode, ProjectedVolume, StandardOrderQuantity (all with 0-1 occurrence) and the element SpecialInstructions (with 0-many occurrences). • The elements MinimumQuantity and MaximumQuantity have been shifted from the PriceStructure structure to the ProductLineItem structure, and are now structures with 0-1 occurrence. • The structure Shipping was removed from the PriceStructure, and its elements ShipFrom, ShipToLocation (replaced by ShipTo structure) and ShippingLeadTime moved up and all became structures. • The element FreightIncludedFlag was removed from the PriceStructure. • The element PriceEffectiveDate and PriceExpiryDate were replaced by the structure PriceEffectiveDate (with mandatory occurrence), and shifted from the structure PriceStructure to the new structure CustomerSpecificCatalogPriceData within the structure PriceStructure. • The following were included in the structure CustomerSpecificCatalogPriceData : the structure CustomerCatalogPrice with mandatory occurrence (linked to the structure Pricing), the structure PriceEffectiveDate, and the elements PriceModifierDown and PriceModifierUp (which originally were direct in the PriceStructure). • The element Price was removed from the PriceStructure as it was replaced by the element MonetaryAmount within the structure Pricing. • The following were included in the structure CustomerSpecificCatalogPriceData : the structure CustomerCatalogPrice with mandatory occurrence (linked to the structure Pricing), the structure PriceEffectiveDate, and the elements PriceModifierDown and PriceModifierUp (which originally were direct in the PriceStructure). • The element Price was removed from the PriceStructure as it was replaced by the element MonetaryAmount within the structure Pricing.
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4.4.2 Customer Specific Catalog Update Data Model

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 4.4.2.a: CustomerSpecificCatalogUpdate structure

Remember that a complete Customer Specific catalog entry will need to be made up with information from this structure along with a corresponding entry from the ProductCatalogUpdate transaction.



Figure 4.4.2.b: CustomerSpecificCatalogUpdateProperties structure

The properties give the default language for the catalog entry.



Figure 4.4.2.c: CustomerSpecificCatalogUpdatePartners structure

The CustomerSpecificCatalogUpdate structure specifies both Buyer and Seller. Buyer is specified because the entry is specific for that Buyer.

4.4.2 Customer Specific Catalog Update Data Model, continued

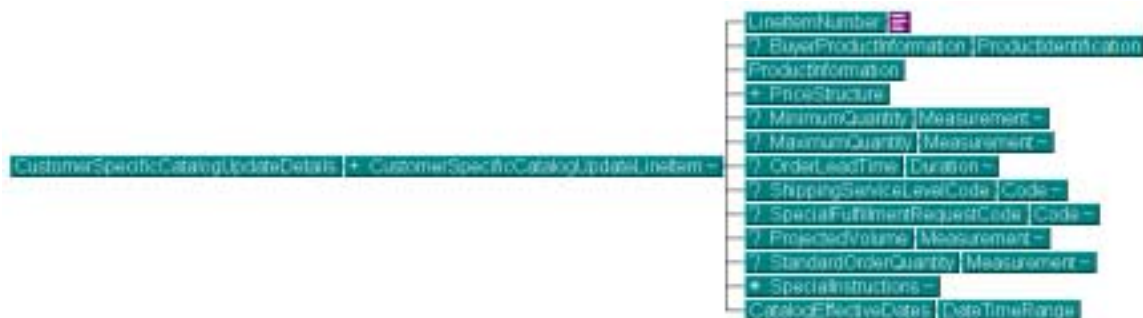


Figure 4.4.2.d: CustomerSpecificProductCatalogProductLineItem structure
Give detailed information about a catalog entry that is specific to a buyer.

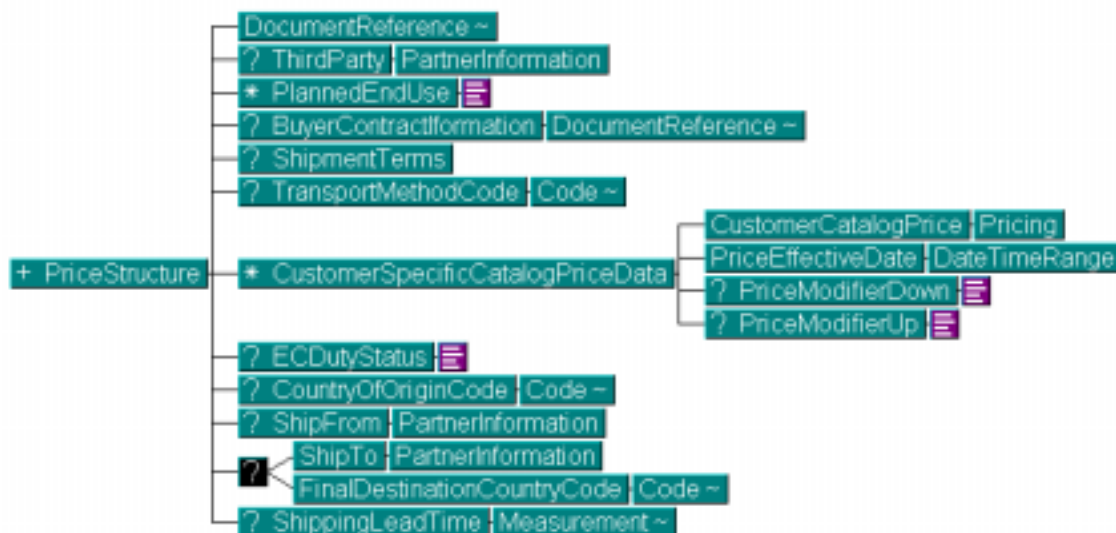


Figure 4.4.2.e: PriceStructure structure
Give detailed information about a catalog entry pricing.

4.4.3 Data Elements and Attributes

The following table lists the data elements and attributes for Customer Specific Catalog Update business transaction:

CustomerSpecificCatalogUpdateProperties:

Element (E)/Structure (S)	Notes
LanguageCode	Default language for all texts.
CatalogIdentifier	Identifier for the specific catalog, incase multiple catalogs are used on the Marketplace.

CustomerSpecificCatalogUpdatePartners:

Element (E)/Structure (S)	Notes
Seller (S)	Owner of product catalog entry
Buyer (S)	Party with which an agreement was made on the product. This party is always the party who will own the product once it has been purchased. In case the purchasing is handled by a party acting on behalf of another 'SoldTo' party, then it's this 'SoldTo' party who is the Buyer.

CustomerSpecificCatalogUpdate Details :

Element (E)/Structure (S)	Notes
LineNumber (E)	Line number of the document
BuyerProductInformation (S)	Structure to identify the product as used by the buyer
ProductIdentification (S)	Identification structure for the product, containing the number and description as used by the buyer
ProductInformation (S)	See ProductCatalogUpdate for information
PriceStructure (S)	Structure containing details on the price as agreed between the Buyer and the Seller
DocumentReference (S)	Structure containing the number identifying the agreement (from the Seller's point of view) with the Buyer
DocumentIdentifier(E)	Number, like contract number as specified by the Seller
ReferenceItem (E)	Item number of for example the contract

CustomerSpecificCatalogUpdate Details, *continued*

ThirdParty (S)	Partner who influences the price negotiated between buyer and seller. Example: the buyer gets the same price from the seller as the price the ThirdParty has with the seller.
PlannedEndUse (E)	The planned end use as specified by the Buyer, which can have an impact on the price. For example, when a product will be used linked with Food, then there may be a different price linked to it.
BuyerContractInformation (S)	Structure containing the number identifying the agreement (from the Buyer's point of view) with the Seller
DocumentReference (S)	Structure containing the document information
DocumentIdentifier (E)	Number, like contract number as specified by the Buyer
ReferenceItem (E)	Item number of for example the contract
ShipmentTerms (S)	Structure identifying the terms under which the transition of ownership of the product takes place
ShipmentTermsCode (S)	Shipment terms code, for example an INCO 2000 code like CIF
ShipmentTermsLocation(E)	Location linked with the shipment terms code
TransportMethodCode (S)	Method describing how the product will be shipped like by rail, road
CustomerSpecificCatalogPriceData (S)	Structure identifying the facts which both Buyer and Seller agreed on and which impact the price
CustomerCatalogPrice (S)	Structure identifying price related data
Pricing (S)	Structure containing the price of the product
MonetaryAmount (E)	Amount plus currency (attribute)
PriceBasis (S)	Quantity plus unit for which the price (MonetaryAmount) is quoted
PriceReason (E)	Description specifying further information on the price, like special offers
PriceEffectiveDate (S)	Effective From and To date which determine when the ListPrice is valid
PriceModifierDown (E)	Conditions specifying when the list price reduces, like quantity discounts

CustomerSpecificCatalogUpdate Details, *continued*

PriceModifierUp (E)	Conditions specifying when the list price increases, like additional costs
DutyStatus (E)	Indicate EU Duty Status (T1 versus T2)
CountryOfOriginCode (S)	Code identifying the country linked to the manufacturing of the product the Seller agreed on selling
ShipFrom (S)	Locations from where the product is going to be shipped from, as agreed
ShipTo (S)	Locations to which the product is going to be shipped to, as agreed
FinalDestinationCountryCode (S)	Code of country to which the product is going to be shipped to, as agreed
ShippingLeadTime (S)	Average lead time for shipping the product as agreed
MinimumQuantity (S)	Minimum quantity (plus unit) which the Buyer will buy per individual order
MaximumQuantity (S)	Maximum quantity (plus unit) the Buyer can buy per individual order
OrderLeadTime (S)	Agreed upon lead time between order entry and shipment of product (excluding shipping lead time)
ShippingServiceLevelCode (S)	Agreed upon code determining the delivery like 'same day'
SpecialFulfillmentRequestCode (S)	Agreed upon code determining how the order has to be handled, like 'no backorders', 'whole lots only'
ProjectedVolume (S)	Total volume which will be ordered under the agreement
SpecialInstructions (E)	Any instructions (type of instructions is linked via attribute list) for the product, like instructions on how to handle the product.
CatalogEffectiveDates (S)	Dates used to determine when catalog entry is valid/accessible.
DateTimeRange (S)	From and To date structure
FromDateTime (E)	Date as from which the customer catalog entry is valid
ToDateTime (E)	Date unto which the customer catalog entry is valid

4.4.4 Example Markup

The following are examples of the Customer Specific Catalog Update business transaction:

4.4.4.1 Adding Customer Specific Catalog Update

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <CustomerSpecificCatalogUpdate Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1100</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000000</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <CustomerSpecificCatalogUpdateBody> <CustomerSpecificCatalogUpdateProperties> <LanguageCode> <Code Domain="ISO">EN</Code> </LanguageCode> </CustomerSpecificCatalogUpdateProperties> </CustomerSpecificCatalogUpdateBody> </CustomerSpecificCatalogUpdate> </pre>	

4.4.4.1 Adding Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> </CustomerSpecificCatalogUpdateProperties> <CustomerSpecificCatalogUpdatePartners> <Seller> <PartnerInformation> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">296327491</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Clinton</ContactName> <ContactDescription>eBusiness Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>302</AreaCode> <PhoneNumber>9999999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1010 34th Street </AddressLine> <CityName>New York City</CityName> <StateProvince>New York</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">286493027</Code> </PartnerIdentifier> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> </CustomerSpecificCatalogUpdatePartners> <CustomerSpecificCatalogUpdateDetails> <CustomerSpecificCatalogUpdateProductLineItem Action="Add"> <LineItemNumber>32</LineItemNumber> <BuyerProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">PR-32A445</ProductIdentifier> <ProductDescription>Popcorn colouring</ProductDescription> <ProductGradeDescription>Type G</ProductGradeDescription> </ProductIdentification> </BuyerProductInformation> </pre>	

4.4.4.1 Adding Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">PR-32A445</ProductIdentifier> <ProductDescription>Colourant Alpha 1</ProductDescription> <ProductGradeDescription>1-45/2</ProductGradeDescription> </ProductIdentification> <ProductSpecifications> <ProductSpecificationName>Low Yellow Scale</ProductSpecificationName> <ProductSpecificationValue>45/2</ProductSpecificationValue> <ProductSpecificationUnit>mg/1000 ltr</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">D-4256</Code> </ProductSpecificationMethod> </ProductSpecifications> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier"/> </ProductIdentification> <PackagingQuantity>25 kgs</PackagingQuantity> <PackagingType>drums</PackagingType> <PackagingWeight> <Measurement UnitOfMeasureCode="KG"/> </PackagingWeight> <PackagingLabel>Brown with Blue Crosses</PackagingLabel> <SpecialInstructions InstructionType="ShipperInstructions">Do not mix with other food colourants</SpecialInstructions> </PackagingInformation> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <MarketingName Registration="RegisteredTradeMark"/> </ProductInformation> <PriceStructure> <DocumentReference ReferenceType="PurchaseOrderNumber"> </DocumentReference> <PlannedEndUse>Foodstuffs</PlannedEndUse> <BuyerContractInformation> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>BA4523</DocumentIdentifier> </DocumentReference> </BuyerContractInformation> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">CIF</Code> </ShipmentTermsCode> <ShipmentTermsLocation>DOVER</ShipmentTermsLocation> </ShipmentTerms> <CustomerSpecificCatalogPriceData> <CustomerCatalogPrice> <Pricing> <MonetaryAmount CurrencyCode="USD">15000</MonetaryAmount> <PriceBasis> <Measurement UnitOfMeasureCode="KG">1000</Measurement> </PriceBasis> <PriceReason>Market matching</PriceReason> </Pricing> </CustomerCatalogPrice> </CustomerSpecificCatalogPriceData> </pre>	

4.4.4.1 Adding Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> </CustomerCatalogPrice> <PriceEffectiveDate> <DateTimeRange> <FromDateTime TimeZone="EST">20010101</FromDateTime> <ToDateTime TimeZone="EST">20010630</ToDateTime> </DateTimeRange> </PriceEffectiveDate> </CustomerSpecificCatalogPriceData> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <ShipFrom> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Manny Silva</ContactName> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>800</AreaCode> <PhoneNumber>5551212</PhoneNumber> </TelephoneNumber> </ContactInformation> <URL>NewAge.com</URL> </PartnerInformation> </ShipFrom> </PriceStructure> <OrderLeadTime> <Duration TimeUnit="Day">4</Duration> </OrderLeadTime> <SpecialFulfillmentRequestCode> <Code Domain="RosettaNet">NoSubstitutions</Code> </SpecialFulfillmentRequestCode> <ProjectedVolume> <Measurement UnitOfMeasureCode="MT">1000</Measurement> </ProjectedVolume> <StandardOrderQuantity> <Measurement UnitOfMeasureCode="MT">1000</Measurement> </StandardOrderQuantity> <SpecialInstructions InstructionType="ShipperInstructions">Do not stack drums more than 2 high</SpecialInstructions> <CatalogEffectiveDates> <DateTimeRange> <FromDateTime TimeZone="EST">20010101</FromDateTime> <ToDateTime TimeZone="EST">20013112</ToDateTime> </DateTimeRange> </CatalogEffectiveDates> </CustomerSpecificCatalogUpdateProductLineItem> </CustomerSpecificCatalogUpdateDetails> </CustomerSpecificCatalogUpdateBody> </CustomerSpecificCatalogUpdate> </pre>	

4.4.4.2 Replacing Customer Specific Catalog Update

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <CustomerSpecificCatalogUpdate Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1100</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000000</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </pre>	

4.4.4.2 Replacing Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> </Header> <CustomerSpecificCatalogUpdateBody> <CustomerSpecificCatalogUpdateProperties> <LanguageCode> <Code Domain="ISO">EN</Code> </LanguageCode> </CustomerSpecificCatalogUpdateProperties> <CustomerSpecificCatalogUpdatePartners> <Seller> <PartnerInformation> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">296327491</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Clinton</ContactName> <ContactDescription>eBusiness Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>302</AreaCode> <PhoneNumber>9999999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1010 34th Street</AddressLine> <CityName>New York City</CityName> <StateProvince>New York</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">286493027</Code> </PartnerIdentifier> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> </CustomerSpecificCatalogUpdatePartners> </CustomerSpecificCatalogUpdateDetails> <CustomerSpecificCatalogUpdateProductLineItem Action="Update"> <LineItemNumber>32</LineItemNumber> </pre>	

4.4.4.2 Replacing Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> <BuyerProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">PR-32A445</ProductIdentifier> <ProductDescription>Popcorn colouring</ProductDescription> <ProductGradeDescription>Type G</ProductGradeDescription> </ProductIdentification> </BuyerProductInformation> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">PR-32A445</ProductIdentifier> <ProductDescription>Colourant Alpha 1</ProductDescription> <ProductGradeDescription>1-45/2</ProductGradeDescription> </ProductIdentification> <ProductSpecifications> <ProductSpecificationName>Low Yellow Scale</ProductSpecificationName> <ProductSpecificationValue>45/2</ProductSpecificationValue> <ProductSpecificationUnit>mg/1000 ltr</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">D-4256</Code> </ProductSpecificationMethod> </ProductSpecifications> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier"/> </ProductIdentification> <PackagingQuantity>25 kgs</PackagingQuantity> <PackagingType>drums</PackagingType> <PackagingWeight> <Measurement UnitOfMeasureCode="KG"/> </PackagingWeight> <PackagingLabel>Brown with Blue Crosses</PackagingLabel> <SpecialInstructions InstructionType="ShipperInstructions">Do not mix with other food colourants</SpecialInstructions> </PackagingInformation> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <MarketingName Registration="RegisteredTradeMark"/> </ProductInformation> <PriceStructure> <DocumentReference ReferenceType="PurchaseOrderNumber"> </DocumentReference> <PlannedEndUse>Foodstuffs</PlannedEndUse> <BuyerContractInformation> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>BA4523</DocumentIdentifier> </DocumentReference> </BuyerContractInformation> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">CIF</Code> </ShipmentTermsCode> <ShipmentTermsLocation>DOVER</ShipmentTermsLocation> </ShipmentTerms> <CustomerSpecificCatalogPriceData> <CustomerCatalogPrice> </pre>	

4.4.4.2 Replacing Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> <Pricing> <MonetaryAmount CurrencyCode="USD">15000</MonetaryAmount> <PriceBasis> <Measurement UnitOfMeasureCode="KG">1000</Measurement> </PriceBasis> <PriceReason>Market matching</PriceReason> </Pricing> </CustomerCatalogPrice> <PriceEffectiveDate> <DateTimeRange> <FromDateTime TimeZone="EST">20010101</FromDateTime> <ToDateTime TimeZone="EST">20010630</ToDateTime> </DateTimeRange> </PriceEffectiveDate> </CustomerSpecificCatalogPriceData> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <ShipFrom> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Manny Silva</ContactName> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>800</AreaCode> <PhoneNumber>5551212</PhoneNumber> </TelephoneNumber> </ContactInformation> <URL>NewAge.com</URL> </PartnerInformation> </ShipFrom> </PriceStructure> <OrderLeadTime> <Duration TimeUnit="Day">4</Duration> </OrderLeadTime> <SpecialFulfillmentRequestCode> <Code Domain="RosettaNet">NoSubstitutions</Code> </SpecialFulfillmentRequestCode> <ProjectedVolume> <Measurement UnitOfMeasureCode="MT">10000</Measurement> </ProjectedVolume> <StandardOrderQuantity> <Measurement UnitOfMeasureCode="MT">1000</Measurement> </StandardOrderQuantity> </pre>	

4.4.4.2 Replacing Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> <SpecialInstructions InstructionType="ShipperInstructions">Do not stack drums more than 2 high</SpecialInstructions> <CatalogEffectiveDates> <DateTimeRange> <FromDateTime TimeZone="EST">20010101</FromDateTime> <ToDateTime TimeZone="EST">20013112</ToDateTime> </DateTimeRange> </CatalogEffectiveDates> </CustomerSpecificCatalogUpdateProductLineItem> </CustomerSpecificCatalogUpdateDetails> </CustomerSpecificCatalogUpdateBody> </CustomerSpecificCatalogUpdate> </pre>	

4.4.4.3 Deleting Customer Specific Catalog Update

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <CustomerSpecificCatalogUpdate Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1100</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000000</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> </pre>	

4.4.4.3 Deleting Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <CustomerSpecificCatalogUpdateBody> <CustomerSpecificCatalogUpdateProperties> <LanguageCode> <Code Domain="ISO">EN</Code> </LanguageCode> </CustomerSpecificCatalogUpdateProperties> <CustomerSpecificCatalogUpdatePartners> <Seller> <PartnerInformation> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">296327491</Code> </PartnerIdentifier> </Seller> </CustomerSpecificCatalogUpdatePartners> </CustomerSpecificCatalogUpdateBody> </pre>	

4.4.4.3 Deleting Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> <ContactInformation> <ContactName>John Clinton</ContactName> <ContactDescription>eBusiness Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>302</AreaCode> <PhoneNumber>9999999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1010 34th Street</AddressLine> <CityName>New York City</CityName> <StateProvince>New York</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">286493027</Code> </PartnerIdentifier> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> </CustomerSpecificCatalogUpdatePartners> <CustomerSpecificCatalogUpdateDetails> <CustomerSpecificCatalogUpdateProductLineItem Action="Delete"> <LineItemNumber>32</LineItemNumber> <BuyerProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">PR-32A445</ProductIdentifier> <ProductDescription>Popcorn colouring</ProductDescription> <ProductGradeDescription>Type G</ProductGradeDescription> </ProductIdentification> </BuyerProductInformation> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">PR-32A445</ProductIdentifier> <ProductDescription>Colourant Alpha 1</ProductDescription> <ProductGradeDescription>1-45/2</ProductGradeDescription> </ProductIdentification> <ProductSpecifications> <ProductSpecificationName>Low Yellow Scale</ProductSpecificationName> <ProductSpecificationValue>45/2</ProductSpecificationValue> <ProductSpecificationUnit>mg/1000 ltr</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">D-4256</Code> </ProductSpecificationMethod> </ProductSpecifications> </ProductInformation> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier"/> <ProductDescription/> <ProductGradeDescription/> </ProductIdentification> </pre>	

4.4.4.3 Deleting Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> <PackagingQuantity>25 kgs</PackagingQuantity> <PackagingType>drums</PackagingType> <PackagingWeight> <Measurement UnitOfMeasureCode="KG"/> </PackagingWeight> <PackagingLabel>Brown with Blue Crosses</PackagingLabel> <SpecialInstructions InstructionType="ShipperInstructions">Do not mix with other food colourants</SpecialInstructions> </PackagingInformation> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <MarketingName Registration="RegisteredTradeMark"/> </ProductInformation> <PriceStructure> <DocumentReference ReferenceType="PurchaseOrderNumber"> </DocumentReference> <PlannedEndUse>Foodstuffs</PlannedEndUse> <BuyerContractInformation> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>BA4523</DocumentIdentifier> </DocumentReference> </BuyerContractInformation> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">CIF</Code> </ShipmentTermsCode> <ShipmentTermsLocation>DOVER</ShipmentTermsLocation> </ShipmentTerms> <CustomerSpecificCatalogPriceData> <CustomerCatalogPrice> <Pricing> <MonetaryAmount CurrencyCode="USD">15000</MonetaryAmount> <PriceBasis> <Measurement UnitOfMeasureCode="KG">1000</Measurement> </PriceBasis> <PriceReason>Market matching</PriceReason> </Pricing> </CustomerCatalogPrice> <PriceEffectiveDate> <DateTimeRange> <FromDate Time TimeZone="EST">20010101</FromDate Time> <ToDate Time TimeZone="EST">20010630</ToDate Time> </DateTimeRange> </PriceEffectiveDate> </CustomerSpecificCatalogPriceData> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <ShipFrom> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> </PartnerInformation> </ShipFrom> </pre>	

4.4.4.3 Deleting Customer Specific Catalog Update, continued

Example Markup	Annotation
<pre> <ContactInformation> <ContactName>Manny Silva</ContactName> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>800</AreaCode> <PhoneNumber>5551212</PhoneNumber> </TelephoneNumber> </ContactInformation> <URL>NewAge.net</URL> </PartnerInformation> </ShipFrom> </PriceStructure> <OrderLeadTime> <Duration TimeUnit="Day">4</Duration> </OrderLeadTime> <SpecialFulfillmentRequestCode> <Code Domain="RosettaNet">NoSubstitutions</Code> </SpecialFulfillmentRequestCode> <ProjectedVolume> <Measurement UnitOfMeasureCode="MT">1000</Measurement> </ProjectedVolume> <StandardOrderQuantity> <Measurement UnitOfMeasureCode="MT">1000</Measurement> </StandardOrderQuantity> <SpecialInstructions InstructionType="ShipperInstructions">Do not stack drums more than 2 high</SpecialInstructions> <CatalogEffectiveDates> <DateTimeRange> <FromDate Time="20010101" TimeZone="EST"></FromDate> <ToDate Time="20013112" TimeZone="EST"></ToDate> </DateTimeRange> </CatalogEffectiveDates> </CustomerSpecificCatalogUpdateProductLineItem> </CustomerSpecificCatalogUpdateDetails> </CustomerSpecificCatalogUpdateBody> </CustomerSpecificCatalogUpdate> </pre>	

4.5 Request for Quote (RFQ)

The Request for Quote is used to request terms different from those available in the Product Catalog.

4.5.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>Properties</p> <ul style="list-style-type: none"> • The EffectiveDates were removed from the Properties section. • The element Language was renamed into the structure LanguageCode and changed from 0-1 occurrence to mandatory occurrence. • The element Currency was renamed into the structure CurrencyCode and changed from 0-1 occurrence to mandatory occurrence. • The element GlobalPaymentMethodCode was renamed into the structure PaymentMethodCode. • The element GlobalShipmentTermscode was renamed into the structure ShipmentTerms. • The following was added the structures: MarketPlaceInformation, InvoicePreference, the structure PaymentTerms, RFQIdentifier (all with 0-1 occurrence) and the structure FinalDestinationCountryCode (with mandatory occurrence). <p>Partners</p> <ul style="list-style-type: none"> • The structures Buyer and Seller were added with mandatory occurrence. • The SoldTo structure was added with 0-1 occurrence. • The DeliverTo structure was renamed into ShipTo and linked to the PartnerInformation structure. • The RequestedShipFrom structure was replaced by the ShipFrom structure with 0-1 occurrence. • The PreferredCarrier structure was replaced by the Carrier structure with 0-1 occurrence. <p>Details</p> <ul style="list-style-type: none"> • The element ServicesAdministrationNumber was removed.

4.5.1 Release Information, continued

Jan. 2001	<p>ProductLineItem</p> <ul style="list-style-type: none"> • The LineNumber was changed from 0-1 occurrence to mandatory occurrence. • The element RFQItem was added to the Details section with 0-1 occurrence. • The structure SellerProductInformation (linked to the ProductIdentification structure) with mandatory occurrence replacing the element MaterialDescription. • The structure DocumentReference replaced the element ContractIdentifier • The element GlobalShipmentTermsCode was renamed into the structure ShipmentTerms and changed from mandatory occurrence to 0-1 occurrence. • The element RequestedTransportMode shifted from the removed structure PreferredCarrier to the ProductLineItem section and was renamed into the structure TransportMethodCode with 0-1 occurrence. • The element ShippingServiceLevelCode changed from mandatory occurrence to 0-1 occurrence and became a structure. • The elements ProjectVolume, StandardOrderQuantity, RequestedAgreementPeriod, RequestedFirstOrderDate and RequestedPackaging changed into structures. • The element ECDutyStatus was added with 0-1 occurrence. • The element RequestedPrice was changed into a structure, which is linked to the structure Pricing. • The element CurrencyCode was added with mandatory occurrence. • The element RequestedDeliveryByDate was replaced by the structure DeliveryByDate. • The element RequestedDeliveryOnDate was replaced by the structure DeliveryOnDate. • The structure RequestedDeliveryBetweenDate was replaced by the structure DeliveryByDate. • The element DespatchOnDate was added in an either/or situation with the structure DeliveryByDate, DeliveryOnDate, DeliveryBetweenDate. • The element ManualIntervensionRequired was removed. • The element SpecialMarkingLabel was removed. • The element RequestedQuoteResponseMethod was renamed into the structure RequestedQuoteResponse (with the structure ContactInformation, and the structure ClosingDate (all with mandatory occurrence). • The element SpecialHandlingInstruction was replaced by the element SpecialInstructions. • The element PlannedEndUse changed from 0-1 occurrence to 0-many occurrences. • The structure PreferredCarrier was replaced by the structure Carrier. • The structure DeliverTo was renamed into ShipTo and changed from mandatory occurrence to 0-1 occurrence. • The structure CountryOfOriginCode was added with 0-1 occurrence. • The structure FinalDestinationCountryCode was added with 0-1 occurrence.
-----------	--

- | | |
|--|--|
| | <ul style="list-style-type: none">• The structure ThirdParty was added with 0-1 occurrence. |
|--|--|

4.5.2 RFQ Data Model

The following diagrams show the graphical representation of the RFQ Data Model:

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

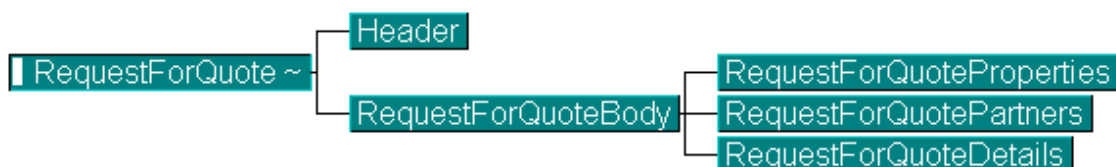


Figure 4.5.2.a: RequestforQuote structure.

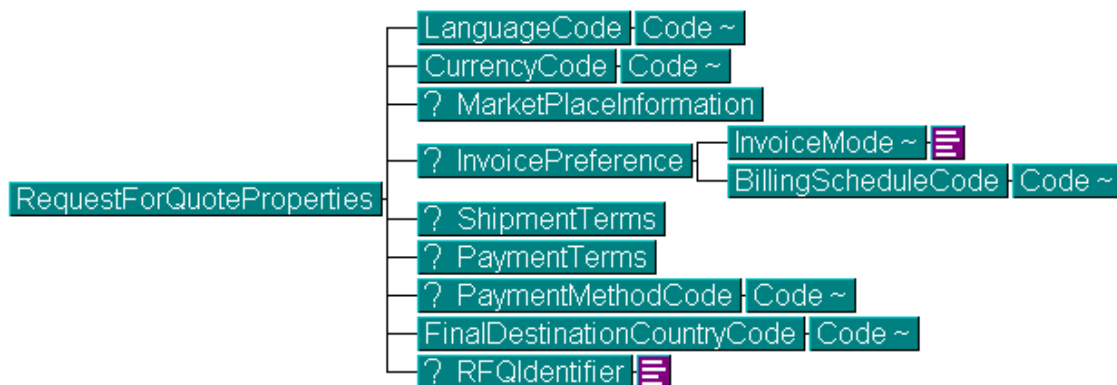


Figure 4.5.2.b: RequestForQuoteProperties structure
The properties structure gives information relevant for the entire RFQ.

4.5.2 RFQ Data Model, continued

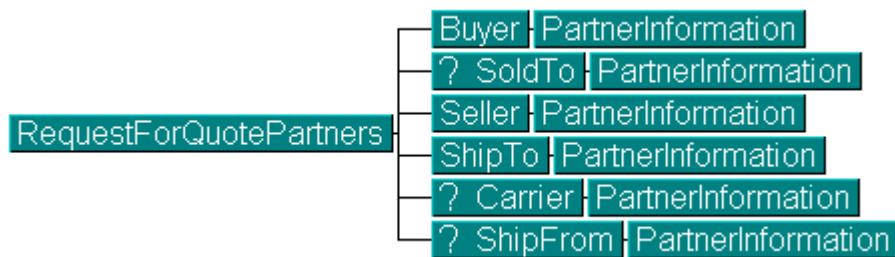


Figure 4.5.2.c: RequestForQuotePartners structure.



Figure 4.5.2.d: RequestForQuoteProductLineItem structure.

4.5.3 Data Elements and Attributes

The following table lists the data elements and attributes for Request For Quote business transaction:

RequestForQuoteProperties section:

Element (E)/Structure (S)	Notes
LanguageCode (S)	Default language for all texts.
CurrencyCode (S)	Default currency, which can be overwritten by the currency within the Pricing structure.
MarketPlaceInformation (S)	Structure containing information on the Marketplace partner
MarketPlaceIdentifier (S)	Identifying code for the Marketplace
MarketPlaceDocumentReference (S)	Structure containing codes used by the Marketplace identifying this RFQ
DocumentIdentifier (E)	Identifying code as used by the Marketplace for this RFQ
ReferenceItem (E)	Identifying item code as used by the Marketplace for this RFQ item
MarketPlaceSellerIdentifier (E)	Identifying code as used by the Marketplace for the Seller. This may be the Seller's D-U-N-S number
MarketPlaceBuyerIdentifier (E)	Identifying code as used by the Marketplace for the Buyer. This may be the Buyer's D-U-N-S number
InvoicePreference (S)	Structure through which the buyer can specify how/when the invoice needs to be send.
InvoiceMode (E)	Means for sending the invoice to the Buyer/SoldTo. When the Buyer was not already qualified, it can be stored in the customer master of the Seller. When the Buyer was already qualified and had an InvoiceMode agreed on, this could be used to request a different InvoiceMode.
BillingScheduleCode (S)	Default calendar for sending the invoice to the Buyer/SoldTo. When the Buyer was not already qualified, it can be stored in the customer master of the Seller. When the Buyer was already qualified and had a BillingScheduleCode agreed on, this could be used to request a different BillingScheduleCode.
ShipmentTerms (S)	Structure identifying the terms under which the transition of ownership of the product takes place, specific this RFQ
ShipmentTermsCode (S)	Shipment terms code, for example an INCO 2000 code like CIF
ShipmentTermsLocation (E)	Location linked with the shipment terms code
PaymentTerms (S)	Payment terms for the Buyer/SoldTo. When the Buyer was not already qualified, it can be stored in the customer master of the Seller. When the Buyer was already qualified and had PaymentTerms agreed on, this could be used to request a different PaymentTerms.

RequestForQuoteProperties section, continued

Element (E)/Structure (S)	Notes
PaymentMethodCode (S)	Method of payment to be used by the Buyer/SoldTo. When the Buyer was not already qualified, it can be stored in the customer master of the Seller. When the Buyer was already qualified and had a PaymentMethodCode agreed on, this can be used to request a different PaymentMethodCode.
FinalDestinationCountryCode (S)	Code of country to which the product is going to be shipped
RFQIdentifier (E)	Identifying number for the RFQ as used by the Buyer.

RequestForQuotePartners section:

Element (E)/Structure (S)	Notes
Buyer (S)	Buyer who created the RFQ. If the Buyer does not equal to the SoldTo, then it is not the buyer who will own the product but the SoldTo.
SoldTo (S)	Filled in case the Buyer is not equal to the SoldTo. The RFQ is effective only for the SoldTo.
Seller (S)	Party to which the RFQ is addressed.
ShipTo (S)	Possible ship to addresses. These can be important for the Seller, as they may impact the price.
Carrier (S)	Similar to ShipTo, these can be important for the Seller, as they may impact the price
ShipFrom (S)	Buyer requested ShipFrom address

RequestForQuoteDetails section:

Element (E)/Structure (S)	Notes
LineNumber (E)	Line number of the document
RFQItem (E)	Identifying item number for the RFQ as used by the Buyer.
SellerProductInformation (S)	Structure to identify the product as used by the Seller
ProductIdentification (S)	Identification structure for the product, containing the number and description as used by the Seller
ProductIdentifier (E)	Number as used by the Seller to identify the product at stockkeeping unit level
ProductDescription (E)	Description as used by the Seller for the product
ProductGradeDescription (E)	Description as used by the Seller when the product when the product has been diluted, or is not exactly within quality specifications
DocumentReference (S)	Structure containing the number identifying the agreement (from the Seller's point of view) with the Buyer
DocumentIdentifier (E)	Number, like contract number
ReferenceItem (E)	Item number of for example the contract
ProjectedVolume (S)	Total volume which will be ordered under the agreement

RequestForQuoteDetails section, continued

Element (E)/Structure (S)	Notes
StandardOrderQuantity (S)	Typical quantity the Buyer intends to order
RequestedPackaging (S)	Used to specify different packaging than as defined by the Seller. This in fact means a request to the Seller to provide for a different product/packaging combination than what is offered through the Product Catalog. If the Seller agrees to the new requested product/packaging combination, a new Product Catalog entry (plus associated Customer Catalog entry) will result. If the Seller does not agree, the RFQ will be rejected.
PackagingInformation (S)	Details on the packaging the Buyer requests for, different than what is offered for the product the RFQ is for.
TransportMethodCode (S)	Method describing how the product will have to be shipped, like by rail, road
RequestedPrice (S)	Structure identifying price related data
Pricing (S)	Structure containing the price of the product
MonetaryAmount (E)	Amount plus currency (attribute) different from the ListPrice which the Buyer is willing to pay
PriceBasis (S)	Quantity plus unit for which the price (MonetaryAmount) is quoted
PriceReason (E)	Description specifying further information on the price, like special offers
RequestedAgreementPeriod (S)	Period for which the Buyer requests the new agreement with the new price to be valid for
RequestedFirstOrderDate (S)	Expected date the Buyer will order under the proposed agreement/price
DespatchOnDateTime (S)	Filled when Buyer takes care of the transportation (equals pickup date)
DeliveryByDateTime (S)	Filled when the Seller takes care of the transportation, and the Buyer wants to specify that delivery can take place up to a certain date/time
DeliveryOnDateTime (S)	Filled when the Seller takes care of the transportation, and the Buyer wants to specify that delivery has to take place up on a particular date/time
DeliveryBetweenDateTime (S)	Filled when the Seller takes care of the transportation, and the Buyer wants to specify that delivery can take place from a certain date/time to a another date/time
ShipTo (S)	Requested Partner to which the product will have to be shipped to
Carrier (S)	Requested Carrier to be used on the main transport leg
ThirdParty (S)	Partner who influences the price negotiated between buyer and seller. Example: the buyer wants the same price from the seller as the price the ThirdParty has with the seller.
ShipmentTerms (S)	Structure identifying the terms under which the transition of ownership of the product takes place

RequestForQuoteDetails section, continued

Element (E)/Structure (S)	Notes
ShipmentTermsCode (S)	Shipment terms code, for example an INCO 2000 code like CIF
ShipmentTermsLocation (E)	Location linked with the shipment terms code
CountryOfOriginCode (S)	Specific country the Buyer requires the product to be manufactured in
DutyStatus (E)	Indicate EU Duty Status (T1 versus T2)
ShippingServiceLevelCode (S)	Code determining the delivery like 'same day'
SpecialFulfillmentRequestCode (S)	Code determining how the order has to be handled, like 'no backorders', 'whole lots only'
FinalDestinationCountryCode (S)	Code of country to which the product is going to be shipped to
SpecialInstructions (E)	Any instructions (type of instructions is linked via attribute list) for the product, like instructions on how to handle the product.
PlannedEndUse (E)	The planned end use as specified by the Buyer, which can have an impact on the price.
RequestedQuoteResponse (S)	Structure identifying how the Buyer would like to be contacted on the outcome of the RFQ
ContactInformation (S)	Structure which gives details to whom the Seller should answer regarding the RFQ
ClosingDate (S)	Latest date/time by the which the Seller has to respond to the RFQ

4.5.4 Example Markup

The following are examples of the Request for Quote business transaction:

4.5.4.1 Request for Quote

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <RequestForQuote Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>1000012</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <RequestForQuoteBody> <RequestForQuoteProperties> <LanguageCode> <Code Domain="ISO">EN</Code> </LanguageCode> <CurrencyCode> <Code Domain="ISO">USD</Code> </CurrencyCode> <InvoicePreference> </pre>	

4.5.4.1 Request for Quote, continued

Example Markup	Annotation
<pre> <InvoiceMode CommunicationMode="Fax"/> <BillingScheduleCode> <Code Domain="CODE(CALENDAR)">LAST DAY OF MONTH</Code> </BillingScheduleCode> </InvoicePreference> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">CIF</Code> </ShipmentTermsCode> <ShipmentTermsLocation>DOVER</ShipmentTermsLocation> </ShipmentTerms> <FinalDestinationCountryCode> <Code Domain="ISO">US</Code> </FinalDestinationCountryCode> <RFQIdentifier>25467</RFQIdentifier> </RequestForQuoteProperties> <RequestForQuotePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">423145908</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </pre>	

4.5.4.1 Request for Quote, continued

Example Markup	Annotation
<pre> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain=" DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> </RequestForQuotePartners> <RequestForQuoteDetails> <RequestForQuoteProductLineItem> <LineItemNumber>1</LineItemNumber> <RFQItem>10</RFQItem> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">500142</ProductIdentifier> <ProductDescription>TEST PRODUCT A</ProductDescription> <ProductGradeDescription>FOOD</ProductGradeDescription> </ProductIdentification> </SellerProductInformation> <DocumentReference ReferenceType="RequestForQuoteNumber"> <DocumentIdentifier>863745</DocumentIdentifier> <Referenceltem>10</Referenceltem> </DocumentReference> <ProjectedVolume> <Measurement UnitOfMeasureCode="KG">100000</Measurement> </ProjectedVolume> <StandardOrderQuantity> <Measurement UnitOfMeasureCode="KG">10000</Measurement> </StandardOrderQuantity> <TransportMethodCode> <Code Domain="RAIL"/> </TransportMethodCode> <RequestedPrice> <Pricing> </pre>	

4.5.4.1 Request for Quote, continued

Example Markup	Annotation
<pre> <MonetaryAmount CurrencyCode="EUR">550</MonetaryAmount> <PriceBasis> <Measurement UnitOfMeasureCode="KG">100</Measurement> </PriceBasis> <PriceReason/> </Pricing> </RequestedPrice> </RequestedAgreementPeriod> <DateTime TimeZone="GMT+1">20003006</DateTime> </RequestedAgreementPeriod> <RequestedFirstOrderDate> <DateTime TimeZone="GMT+1">20010115</DateTime> </RequestedFirstOrderDate> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <ShippingServiceLevelCode> <Code Domain="CODE">A</Code> </ShippingServiceLevelCode> <FinalDestinationCountryCode> <Code Domain="ISO">GB</Code> </FinalDestinationCountryCode> <SpecialInstructions InstructionType="RoutingInstructions">LINER SERVICE</SpecialInstructions> <PlannedEndUse>AUTOMOTIVE</PlannedEndUse> <RequestedQuoteResponse PreferredMethod="Email"> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>John.Doe@eProject.com</ContactDescription> </ContactInformation> <ClosingDate> <DateTime TimeZone="GMT+1">20001231</DateTime> </ClosingDate> </RequestedQuoteResponse> </RequestForQuoteProductLineItem> </RequestForQuoteDetails> </RequestForQuoteBody> </RequestForQuote> </pre>	

5.0 Purchase Order

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5.1 Introduction and Scope of Effort

This section of the Chemical eStandards document defines the data exchange interfaces necessary to support the interchange of order related data between Buyers, Marketplace(s), and Sellers.

Order Create	The Order Create Transaction takes place between the Marketplace or Buyer and the Seller(s). It enables new purchase orders to be communicated to the Seller.
Order Response	The Order Response Transaction is initiated by the Seller to communicate to the Buyer (either directly or through a Marketplace) the Seller's agreement to supply a specific amount of product, at a specific price, according to set pricing terms, on an agreed-upon date, using agreed-upon transportation arrangements. An OrderResponse message is sent in response to a OrderCreate, a OrderChange, or a change to the order that is initiated by the Seller (e.g., delivery date).
Order Change	The Order Change Transaction is initiated by a Buyer (either directly or through a Marketplace) to request that an existing order be changed in specific ways.
Order Cancel	The Order Cancel Transaction is initiated by a Buyer (either directly or through a Marketplace) to request that an existing order be cancelled.
Order Cancel Response	The Order Cancel Response Transaction is initiated by a Seller to communicate to a Buyer (either directly or through a Marketplace) that an Order Cancel transaction has been received and has been accepted or rejected by the Seller's order processing system
Order Status Request	The Order Status Request Transaction is initiated by a Buyer (either directly or through a Marketplace) to inquire about the status of an order.
Order Status Response	The Order Status Response Transaction is initiated by the Seller to communicate to the Buyer (either directly or through a Marketplace) to identify the current status of orders that have been previously placed.

5.1.1 Key Scope Assumptions

- All transactions may be used in Business-to-Business (B2B) and Business-to-Marketplace communications.
- All transactions were designed to facilitate communication between Buyer and Seller. Excluded are data elements not needed by the Buyer to communicate with the Seller (i.e., used only in the Seller's internal systems).
- The use of order messages was not investigated for Buyer to Marketplace interactions, but there are no known limitations for their use in these interactions.

5.1.2 Key Business Model Assumptions

- An order has at least one line item.
- The Order Status Response may be pushed by the Seller or pulled by the Buyer/Marketplace.
- Order cancellation implies cancellation of an entire order.
- Before an order may be processed, the Buyer must be established in the Seller's system.
- Cancellation of the last remaining line item implies cancellation of the entire order, except where prior line items have already been supplied
- A Seller never initiates a OrderChange transaction. Seller initiated changes to a purchase order result in a OrderResponse message being generated by the Seller.
- A Seller initiated response transaction follows each Buyer/Marketplace initiated transaction. This is asynchronous, as the Seller may need to take action on the Buyer/Marketplace initiated transaction.
 - Order Create → Order Response
 - Order Change → Order Response
 - Order Cancel → Order Cancellation Response
 - Order Status Request → Order Status Response

5.2 Business Process Diagram with Description

5.2.1 Order Create/Order Response

The Business Process Model for Order Create and Order Response using either the Marketplace or B2B models is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace and Seller. Dashed thick lines indicate the Buyer to Seller transactions. Solid thin lines illustrate the Buyer to Marketplace transactions (communications can be via phone, fax, e-mail, browser, and use of the Chemical eStandards).

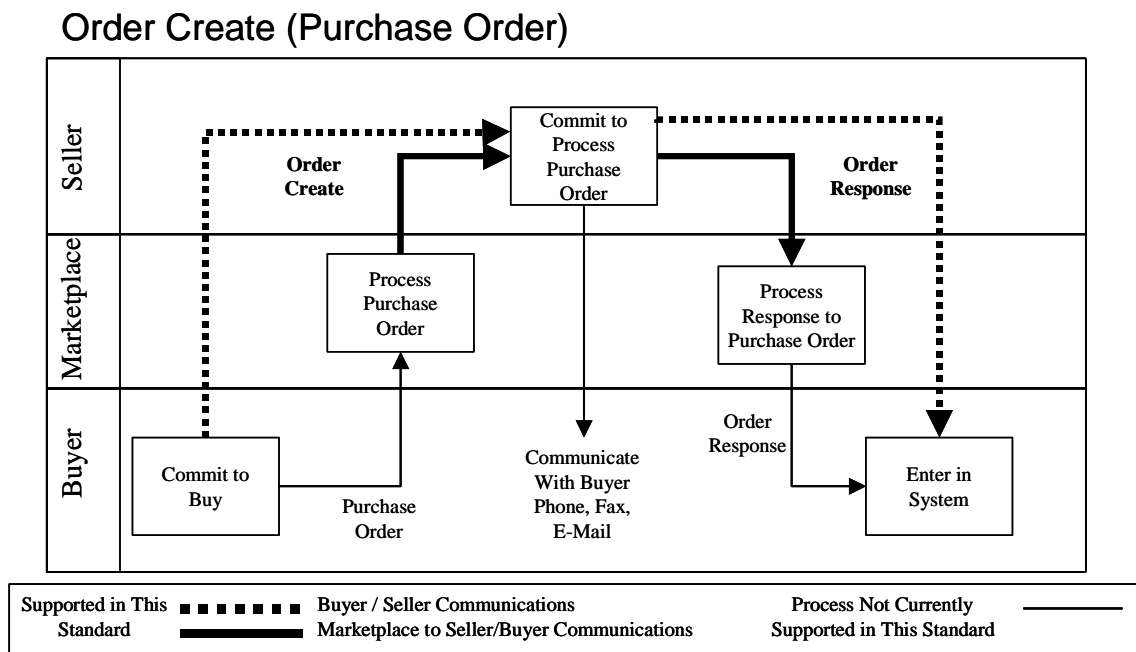


Figure 5.2.1.a: Order Create/Order Response transactions

5.2.1 Order Create/Order Response, continued

The Order Create process is initiated when a Buyer commits to buy a product from a Seller.

Marketplace Model	A Buyer or buying organization initially creates a purchase order and sends the purchase order to a Marketplace. The Marketplace processes the purchase order, generates a Order Create message and sends the message to the Seller. The Seller acknowledges acceptance of the Order Create message by returning an Order Response message to the Marketplace. The Marketplace returns the order response to the Buyer.
B2B Model	A Buyer or buying organization initially creates a Order Create message and sends the message directly to a Seller. The Seller acknowledges acceptance of the order by returning an Order Response message to the Buyer.

The following scenarios cause the creation of an order and their corresponding actions:

1. **Single Line Order with Positive Response**

A Buyer/Marketplace creates a single line order and sends it to the supplier. The supplier validates the order, finds no rejection condition and sends positive order response with confirmed delivery date and quantity.

[Example for Single Line Order: see 5.3.4.1](#)

[Example for Positive Order Response: see 5.5.4.1](#)

2. **Multiple Line Order with Rejection**

A Buyer/marketplace creates a multiple line order and sends it to the Seller. The Seller validates the order, finds a rejection condition in one of the line items and sends a negative order response (includes accept or reject status for each line item).

[Example for Multiple Line Order: see 5.3.4.2](#)

[Example for Negative Order Response see 5.5.4.2](#)

5.2.2 Order Change/Order Response

The Business Process Model for Order Change and Order Response using either the Marketplace or B2B models is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace and Seller. Dashed thick lines indicate the Buyer to Seller transactions. Solid thin lines illustrate the Buyer to Marketplace transactions (communications can be via phone, fax, e-mail, browser, and use of the Chemical eStandards).

Order Change

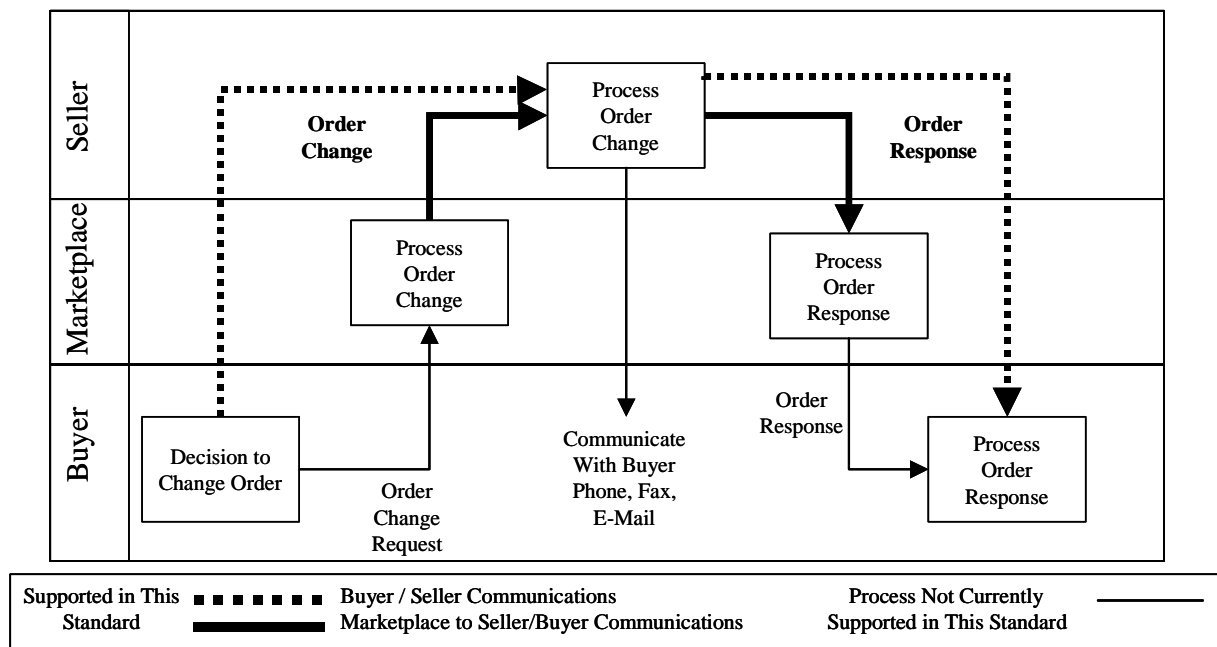


Figure 5.2.2.a: Order Change/Order Response transactions

The Order Change process is triggered when a Buyer decides to change an existing order that has already been received by the Seller.

Marketplace Model	A Buyer or buying organization initially changes a purchase order and sends the order change to the Marketplace. The Marketplace processes the order change, creates a Order Change message and sends a message to the Seller. The Seller acknowledges acceptance of the Order Change by returning an Order Response message to the Marketplace. The Marketplace returns the order response to the Buyer.
B2B Model	A Buyer or buying organization changes a purchase order and sends the Order Change message directly to a Seller. The Seller acknowledges acceptance of the change by returning an Order Response message to the Buyer.

5.2.2 Order Change/Order Response, continued

The following scenarios illustrate possible changes within an order and the corresponding actions:

1. **Buyer Changes Single Line Order**

A Buyer/Marketplace changes a confirmed single line order and sends it to the Seller. The Seller validates the changes and sends an OrderResponse indicating whether change was accepted or rejected.

[Example for Single Line Order Change: see 5.4.4.1](#)

[Example for Positive Order Response: see 5.5.4.1](#)

2. **Buyer Changes a Previously Rejected Multiple Line Order**

A multiple line order was rejected. The Buyer/Marketplace changes the causing line and sends the whole order to the Seller. The Seller validates the order, and sends an OrderResponse indicating whether change was accepted or rejected.

[Example for Positive Order Response: see 5.5.4.1](#)

3. **Buyer Changes a Confirmed Multiple Line Order**

A confirmed order is changed and sent to the Seller. The Seller validates the order, and sends an OrderResponse indicating whether change was accepted or rejected (includes accept or reject status for each line item).

[Example for Negative Order Response: see 5.5.4.2](#)

4. **Seller Changes a Previously Confirmed Order**

A previously confirmed order has a change such as new delivery dates. The Seller initiates an OrderResponse independent of any Buyer initiated transaction to inform the Buyer of the change.

[Example for Negative Order Response: see 5.5.4.2](#)

5.2.3 Order Status Response/Order Status Request

The Business Process Model for Order Status Response and Order Status Request using either the Marketplace or B2B models is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace and Seller. Dashed thick lines indicate the Buyer to Seller transactions. Solid thin lines illustrate the Buyer to Marketplace transactions (communications can be via phone, fax, e-mail, browser, and use of the Chemical eStandards).

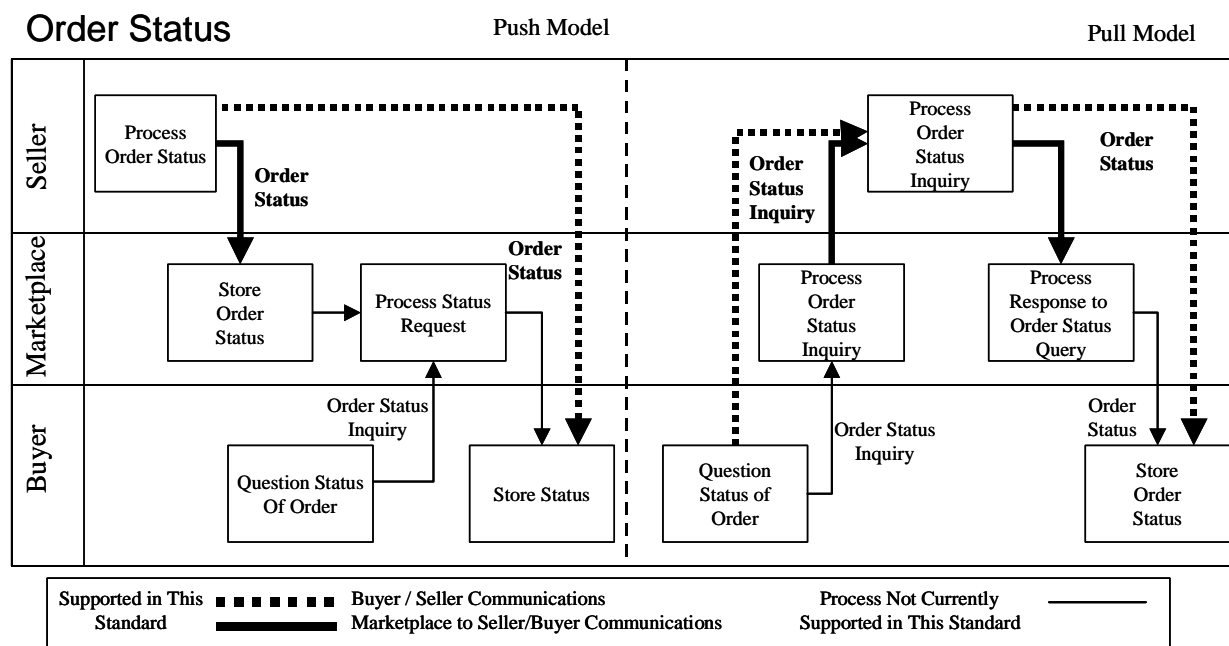


Figure 5.2.3.a: Depicts Order Inquiry/Order Status Response transactions.

The Order Status Response process is triggered either when a Buyer queries the status of an existing order (pull process) or when a Seller wants to make the Buyer aware of the status of an order (push process).

5.2.3 Order Status Response/Order Status Request, *continued***Push Model**

Marketplace Model	A Seller sends an Order Status Response message to a Marketplace. The Marketplace forwards the Order Status Response to the Buyer.
B2B Model	A Seller sends an Order Status Response message directly to the Buyer.

Pull Model

Marketplace Model	A Buyer sends an Order Status Request to a Marketplace. The Marketplace processes the request, creates an Order Status Request message and sends the message to the Seller. The Seller sends an Order Status Response message to the Marketplace. The Marketplace forwards the Order Status Response to the Buyer.
B2B Model	A Buyer or buying organization sends an Order Status Request request to the Seller. The Seller sends an Order Status Response to the Buyer.

The following scenarios illustrate the causes for an Order Status Response to be sent and the corresponding actions:

1. **Push Model**

A Seller/Marketplace sends the Order Status Response message to the Buyer. The order can be either single line or multiple line.

[Example for Order Status Response: see 5.6.4.1](#)

2. **Pull Model**

A Buyer sends an Order Status Request request to the Seller. The Seller sends an Order Status Response to the Buyer. The order can be either single line or multiple line.

[Example for Order Status Request: see 5.7.4.1](#)

[Example for Order Status Response: see 5.6.4.1](#)

5.2.4 Order Cancel/Order Cancel Response

The Business Process Model for Order Cancel and Order Cancel Response using either the Marketplace or B2B models is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace and Seller. Dashed thick lines indicate the Buyer to Seller transactions. Solid thin lines illustrate the Buyer to Marketplace transactions (communications can be via phone, fax, e-mail, browser, and use of the Chemical eStandards).

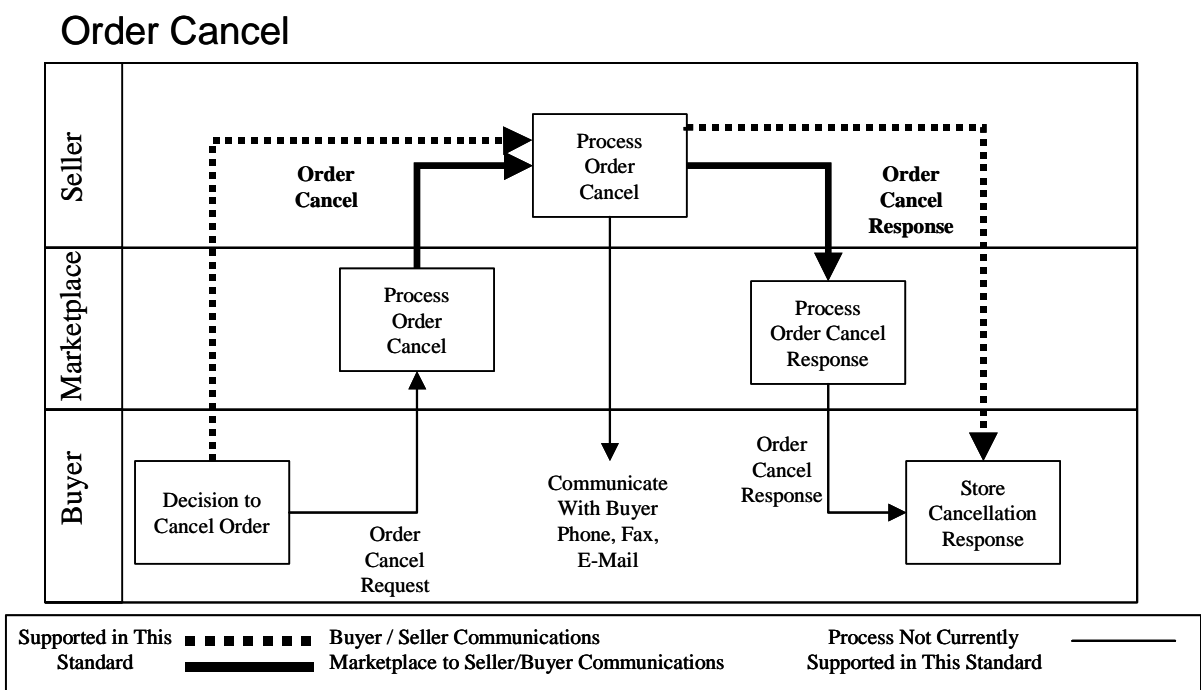


Figure 5.2.4.a: Depicts the Order Cancel/Order Cancellation transactions

5.2.4 Order Cancel/Order Cancel Response, continued

The Order Cancellation process is triggered when the Buyer determines that cancellation of an entire order is desired. The Order Change process handles individual purchase order line item cancellations.

Marketplace Model	A Buyer initially cancels a purchase order and sends the request to cancel the order to a Marketplace. The Marketplace processes the request, creates a Order Cancel message and sends the message to the Seller. The Seller acknowledges acceptance of the cancellation by returning a Order Cancel Response message to the Marketplace. The Marketplace returns the Order Cancel response to the Buyer.
B2B Model	A Buyer cancels a purchase order and sends the Order Cancel message directly to a Seller. The Seller acknowledges acceptance of the cancellation by returning a Order Cancel Response message to the Buyer.

The following scenarios illustrates the cause of cancellation of an order and the corresponding actions:

1. Cancellation of an Order with Confirmation

A Buyer/Marketplace sends a Order Create to the Seller and the Seller confirms the order. After that the Buyer/Marketplace sends a Order Cancel and the Seller confirms the cancellation with a Order Cancel Response.

[Example for Order Cancel: see 5.8.4.1](#)

[Example for Order Cancel Response: see 5.9.4.1](#)

2. Cancellation of an Order with Rejection

A Buyer/Marketplace sends a Order Create to the Seller and the Seller confirms the order. After that the Buyer/Marketplace sends a Order Cancel and the supplier rejects the cancellation with a Order Cancel Response.

[Example for Order Cancel: see 5.8.4.1](#)

[Example for Order Cancel Response: see 5.9.4.1](#)

5.3 Order Create

The Order Create Transaction takes place between the Marketplace or Buyer and the Seller(s). It enables new purchase order information to be communicated to the Seller.

5.3.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>OrderCreateProperties:</p> <ul style="list-style-type: none"> • PurchaseOrderTypeCode replaced GlobalPurchaseOrderTypeCode • Element Language replaced by structure LanguageCode • Element Currency replaced by structure CurrencyCode • Element Purpose was replaced by LineItemPurposeCode and moved from properties level to details level. • New structure DocumentReference with occurrence 0 to many times has been added. • New structure MarketplaceInformation has been added. Structure is optional. • Element InvoicePreference was replaced by a new structure SpecialInvoicePreferenceOccurance of Element SpecialInstructions changed from optional to 0-many times. • Element ShipmentTerms has become a structure with two elements. First one qualifies the code (INCOterms,...) and second one the location. • GlobalFinanceTermsCode has been renamed to PaymentTerms and became a structure with several elements/structures within it. • Element AcknowledgmentType was removed • New structure ShipWithPurchaseOrder with occurrence 0 to many times has been added. • New structure LetterOfCreditInformation has been added optional. • New structure CarrierToExclude has been added with occurrence 0 to many. • New structure FinalDestinationCountryCode has been added optional. <p>OrderCreatePartners</p> <ul style="list-style-type: none"> • In order to respect Marketplace terminology, the partners SoldTo and Supplier have been replaced respectively by partners Buyer and Seller. • Partner SoldTo is still optional partner. See QualificationRequest section for more comments. • Partner DeliverTo has been replaced by ShipTo. • Partner SecondaryBuyer has been replaced by partnerThirdParty as these two partners are synonymous. • New mandatory partner Payer has been added.

5.3.1 Release Information, continued

Jan. 2001, cont.	<p>OrderCreateDetails</p> <ul style="list-style-type: none"> • PurchaseOrderLineItemNumber has been added on detail level because item number in Buyer ERP system may be different from item number in Seller ERP system. • Elements GlobalMaterialIdentifier and MaterialDescription have been replaced by a new structure named ProductIdentification. • Three new structures, SellerProductInformation, mandatory, and BuyerProductInformation and ManufacturerProductInformation, optional, have been added. • Element MaterialQuantity has been replaced by new structure ProductQuantity. • Element NumberPackagingUnits has been replaced by new structure PackageQuantity • New element BatchNumber has been added optional. • Element CountryOfOrigin has been renamed CountryOfOriginCode which is a structure. • Elements PackListRequirements has been removed. A new structure SpecialFulfillmentRequestCode has been added. • Element SpecialHandlingInstruction has been removed. All texts are now to be covered by the code list of the SpecialInstruction element, occurrence 0 to many. • Element SafetySheetIndicator has been removed. A new structure RequestedDocument has been added • Element CarrierEquipment has been included in a new structure, namely TransportInformation with occurrence 0 to many. • Elements RequestedDeliveryByDateTime, RequestedDeliveryOnDateTime, RequestedDeliveryBetweenDateTime have been replaced by structures DeliveryByDateTime, DeliveryOnDateTime, DeliveryBetweenDateTime. • New structure DespatchOnDateTime has been added. • Partners ShipTo, Carrier and ThirdParty have been added on item level. • The element ContractIdentifier has been removed and replaced by the structure DocumentReference. • RequestedPrice is linked to a new structure, Pricing, which has three qualifiers, MonetaryAmount, PriceBasis and PriceReason. • TaxableFlag is a new optional element that indicates whether an order is taxable or not. • BalanceItemFlag is a new optional element that indicates the item of an order that should fill up the carrier equipment in case there is remaining space. <p>DutyStatus is a new optional element needed for dutystatuses. It has two possible values.</p>
------------------	--

5.3.1 Release Information, continued

Jan. 2001, <small>cont.</small>	<ul style="list-style-type: none"> ImportedLicenceNeededFlag and ImportedLicenceAvailableFlag are two new optional elements. Y means order should be held in ERP system and N means order can proceed. CommissionPayee is a new optional partner structure. SecondWeightFlag is a new optional element. CustomerRequestedDeliveryHoldFlag is a new optional element. AccompanyingSample is a new optional element with three possible values, which offers the possibility for the Buyer to specify no accompanying sample, a sample sent together with shipment, or a sample sent before shipment.
---------------------------------	--

5.3.2 Order Create Data Model

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

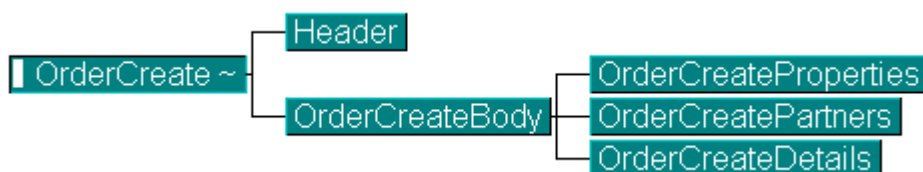


Figure 5.3.2.a: OrderCreate structure

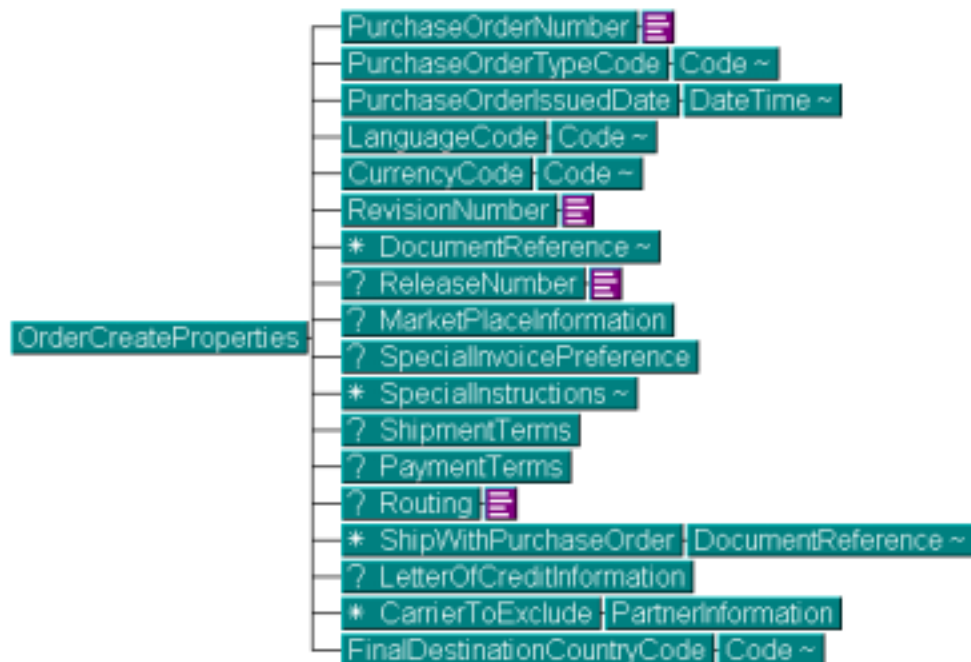
5.3.2 Order Create Model Data, continued

Figure 5.3.2.b: OrderCreateProperties structure

In the Properties section, you can find the necessary header information about the purchase order, such as, order number, language, currency and Incoterms.

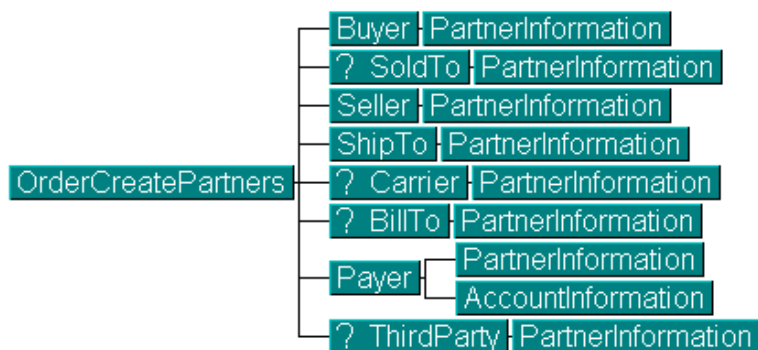


Figure 5.3.2.c: OrderCreatePartners structure

To place an order there needs to be at least a Seller (the selling company), the sold-to party (Buyer), the deliver-to party (the location, where the product will be shipped to) and the bill-to party (company that should receive the invoice). The secondary Buyer and the Carrier are also obligatory in the Order Create process.

5.3.2 Order Create Model Data, *continued*

Figure 5.3.2.d: OrderCreateDetails structure (part 1)



Figure 5.3.2.e: OrderCreateDetails structure (part 2)

The ProductLineItem section can be repeated several times (no logical limits). It contains information about material, delivery date, quantity, price and packing information.

5.3.3 Data Elements and Attributes

The following tables list the data elements and attributes for Order Create business transaction:

OrderCreateProperties section:

Element (E)/Structure (S)	Notes
PurchaseOrderNumber (E)	Order number from the Buyers purchasing system
PurchaseOrderTypeCode (S)	It can be a standard order, a blanket order,...
RevisionNumber (E)	For OrderCreate this is 0 and the first change has RevisionNumber=1.
DocumentReference (S)	This structure may refer to a contract, a Buyer master record, a previous RFQ number or a particular line item of this RFQ.
DocumentIdentifier (E)	For example, RFQ with number 12342134
ReferenceItem (E)	For example, item 20 (of RFQ with number 12342134)
SpecialInvoicePreference (S)	The means and the schedule that the customer wants for that order (optional). It overrides the data supplied with InvoicePreference in the QualificationRequest transaction.
SpecialInstructions (E)	For different text information regarding the order
ShipmentTerms (S)	Combination of shipment terms and the location.
ShipWithPurchaseOrder (S)	Describes which purchase order items the current purchase order should be shipped with. This information is provided by the element's DocumentIdentifier which is mandatory and by the optional element ReferenceItem
FinalDestinationCountryCode	Mandatory for legal issues.

5.3.3 Data Elements and Attributes, *continued*

OrderCreatePartner section (see Appendix F – Common Data Elements for description of PartnerData):

Element	Notes
BillTo (S)	Essentially the address to which the invoice is sent.
Payer (S)	Partner who pays the invoice while BillTo partner is the invoice recipient. BillTo may be different from Payer. Therefore, Payer has been defined as a structure with PartnerInformation and Account information, and is mandatory.
ThirdParty (S)	In case of agent business, would be the Buyer's Buyer.

OrderCreateDetails section:

Element	Notes
ProductIdentifier (E)	Number of the product in the Seller ERP system to packaging level.
BuyerProductInformation (S)	BuyerProductInformation may be useful if the Buyer requires a reference to their own description for the ordered product.
DocumentReference (S)	May be a previous RFQ, a contract, a customer master record
DocumentIdentifier (E)	e.g., Number
ReferenceItem (E)	e.g., Item 10 or 20 of the upper RFQ number
BatchNumber (E)	Optional because Buyer might require a particular batch.
DespatchOnDateTime (S)	Filled in case of Buyer's pick up.
Carrier (S)	Special Carrier for this order item
DeliveryTolerance-LowerLimit	e.g., 10% or 1000kg
DeliveryTolerance-UpperLimit	e.g., 5% or 500kg

5.3.3 Data Elements and Attributes, *continued*

TransportInformation (S)	Refers to a particular transport leg.
Carrier (S)	Partner for this leg
ShipFrom (S)	Location for this leg
ShipTo (S)	Partner for this leg
CarrierEquipment (E)	Should be CarrierEquipmentCode because linked to a code list
DocumentReference (S)	Carrier Contract
TransportName (E)	Truck TR123
TaxableFlag (E)	Relevant for North America only. Would not be flagged in case of Governmental order
RequestedDocument (S)	COA, MSDS, ...
DocumentDeliveryInformation (S)	Linked to PartnerInformation structure
CommisionPayee (S)	The Partner acting as an agent, and is paid a commission.
AccompanyingSample (E)	No or yes. If yes, before or at delivery.
SpecialFulfillmentRequestCode (S)	The code list of this new element covers informations like "partial delivery" or "more than one batch allowed."
SpecialInstructions (E)	For different text information regarding the order item
LineItemPurposeCode (S)	For OrderCreate, this always indicates 'Original' (code value='00')

5.3.4 Example Markup

The following are examples of the Order Create business transaction:

5.3.4.1 Single Line Order

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <OrderCreate Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000034</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <OrderCreateBody> <OrderCreateProperties> <PurchaseOrderNumber>987544</PurchaseOrderNumber> </OrderCreateProperties> </OrderCreateBody> </OrderCreate> </pre>	

5.3.4.1 Single Line Order, continued

Example Markup	Annotation
<pre> <PurchaseOrderTypeCode> <Code Domain="ANSI ASC X12 92"> KN</Code> </PurchaseOrderTypeCode> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <RevisionNumber>0</RevisionNumber> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>890897</DocumentIdentifier> </DocumentReference> <SpecialInstructions InstructionType="ShipperInstructions">Ship in Stainless Steel tank car.</SpecialInstructions> <SpecialInstructions InstructionType="ShipperInstructions">Maintain 30 degrees C. in transit</SpecialInstructions> <SpecialInstructions InstructionType="CarrierInstructions">Get Safety instructions at gate entrance to plant. </SpecialInstructions> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">CIF</Code> </ShipmentTermsCode> <ShipmentTermsLocation>Dover</ShipmentTermsLocation> </ShipmentTerms> <PaymentTerms> <TermsOfSale>CIF</TermsOfSale> </PaymentTerms> <ShipWithPurchaseOrder> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>987542</DocumentIdentifier> </DocumentReference> </ShipWithPurchaseOrder> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> </OrderCreateProperties> <OrderCreatePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> </OrderCreatePartners> </pre>	

5.3.4.1 Single Line Order, continued

Example Markup	Annotation
<pre> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> <Payer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Payer> </OrderCreatePartners> <OrderCreateDetails> <OrderCreateProductLineItem> <LineItemNumber>1</LineItemNumber> <PurchaseOrderLineItemNumber>10</PurchaseOrderLineItemNumber> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">90969909</ProductIdentifier> <ProductDescription>Test Product B</ProductDescription> </ProductIdentification> </SellerProductInformation> </OrderCreateProductLineItem> </OrderCreateDetails> </pre>	

5.3.4.1 Single Line Order, continued

Example Markup	Annotation
<pre> </ProductIdentification> </SellerProductInformation> <BuyerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">AB-34244</ProductIdentifier> <ProductDescription>Test Product Beta-1 Highly Confidential</ProductDescription> </ProductIdentification> </BuyerProductInformation> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>890897</DocumentIdentifier> <ReferenceItem>6</ReferenceItem> </DocumentReference> <ProductQuantity> <Measurement UnitOfMeasureCode="kgs">25</Measurement> </ProductQuantity> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <DispatchOnDateTime> <DateTime TimeZone="EST">20011121</DateTime> </DispatchOnDateTime> <LineItemPurposeCode> <Code Domain="ANSI ASC X12 92">00</Code> </LineItemPurposeCode> </OrderCreateProductLineItem> </OrderCreateDetails> </OrderCreateBody> </OrderCreate> </pre>	

5.3.4.2 Multiple Line Order

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <OrderCreate Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000034</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> </pre>	

5.3.4.2 Multiple Line Order, continued

Example Markup	Annotation
<pre> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <OrderCreateBody> <OrderCreateProperties> <PurchaseOrderNumber>987664</PurchaseOrderNumber> <PurchaseOrderTypeCode> <Code Domain="ANSI ASC X12 92">KN</Code> </PurchaseOrderTypeCode> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <RevisionNumber>0</RevisionNumber> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>890897</DocumentIdentifier> </DocumentReference> <SpecialInstructions InstructionType="ShipperInstructions">Ship in Stainless Steel tank car.</SpecialInstructions> <SpecialInstructions InstructionType="ShipperInstructions">Maintain 30 degrees C. in transit</SpecialInstructions> <SpecialInstructions InstructionType="CarrierInstructions">Get Safety instructions at gate entrance to plant. </SpecialInstructions> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">CIF</Code> </ShipmentTermsCode> </ShipmentTerms> </OrderCreateProperties> </OrderCreateBody> </pre>	

5.3.4.2 Multiple Line Order, continued

Example Markup	Annotation
<pre> </ShipmentTermsCode> <ShipmentTermsLocation>Dover</ShipmentTermsLocation> </ShipmentTerms> <PaymentTerms> <TermsOfSale>CIF</TermsOfSale> </PaymentTerms> <ShipWithPurchaseOrder> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>987542</DocumentIdentifier> </DocumentReference> </ShipWithPurchaseOrder> <CarrierToExclude> <PartnerInformation> <PartnerName>Failed Road Transport No.4</PartnerName> <PartnerIdentifier PartnerRole="Carrier"> <Code Domain="DUNS">286493027</Code> </PartnerIdentifier> <AddressInformation> <AddressLine/> <CityName>Springfield</CityName> <StateProvince>Illinois</StateProvince> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="SCAC">30275</Code> </LocationCode> <Comment> <Content>Regular lost shipments</Content> </Comment> </AddressInformation> </PartnerInformation> </CarrierToExclude> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> </OrderCreateProperties> <OrderCreatePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">423145908</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> </pre>	

5.3.4.2 Multiple Line Order, continued

Example Markup	Annotation
<pre> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> <Payer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">423145908</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> <AccountInformation> <AccountHolderName>New Age Chemical</AccountHolderName> </AccountInformation> </Payer> </OrderCreatePartners> <OrderCreateDetails> <OrderCreateProductLineItem> <LineItemNumber>1</LineItemNumber> <PurchaseOrderLineItemNumber>10</PurchaseOrderLineItemNumber> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">90969909</ProductIdentifier> <ProductDescription>Test Product B</ProductDescription> </ProductIdentification> </SellerProductInformation> </OrderCreateProductLineItem> </pre>	

5.3.4.2 Multiple Line Order, continued

Example Markup	Annotation
<pre> </SellerProductInformation> <BuyerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">AB-34244</ProductIdentifier> <ProductDescription>Test Product Beta-1 Highly Confidential</ProductDescription> </ProductIdentification> </BuyerProductInformation> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>890897</DocumentIdentifier> <ReferenceItem>6</ReferenceItem> </DocumentReference> <ProductQuantity> <Measurement UnitOfMeasureCode="kgs">25</Measurement> </ProductQuantity> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <DispatchOnDateTime> <DateTime TimeZone="EST">20011121</DateTime> </DispatchOnDateTime> <ShipTo> <PartnerInformation> <PartnerName>English Test Company</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">286493027</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <TelephoneNumber> <TelecomCountryCode>44</TelecomCountryCode> <AreaCode>20</AreaCode> <PhoneNumber>9999999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>Doe House, Jon Street</AddressLine> <CityName>Dover</CityName> <StateProvince>Kent</StateProvince> <PostalCode>DA12</PostalCode> <PostalCountry>GB</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">CIF</Code> </ShipmentTermsCode> <ShipmentTermsLocation>SPRINGFIELD</ShipmentTermsLocation> </ShipmentTerms> <RequestedPrice> <Pricing> <MonetaryAmount CurrencyCode="USD">67000</MonetaryAmount> <PriceBasis> <Measurement UnitOfMeasureCode="LB">45000</Measurement> </pre>	

5.3.4.2 Multiple Line Order, continued

Example Markup	Annotation
<pre> </PriceBasis> </Pricing> </RequestedPrice> <RequestedDocument Language="EN" RequestedDocumentType="MSDS"> <DocumentDeliveryInformation DeliveryMethodQualifier="Email"> <PartnerInformation> <PartnerName/> <PartnerIdentifier PartnerRole="UltimateConsignee"> <Code Domain="DUNS">286493027</Code> </PartnerIdentifier> <ContactInformation> <EmailAddress>JOHN.DOE@WORK.COM</EmailAddress> </ContactInformation> </PartnerInformation> </DocumentDeliveryInformation> <NumberOfOriginals>1</NumberOfOriginals> <NumberOfCopies>1</NumberOfCopies> </RequestedDocument> <CommissionPayee> <PartnerInformation> <PartnerName/> <PartnerIdentifier PartnerRole="Receiver"> <Code Domain="DUNS">479246346</Code> </PartnerIdentifier> <ContactInformation> <ContactName>A N Other</ContactName> <ContactDescription>Account Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>33</TelecomCountryCode> <AreaCode>1</AreaCode> <PhoneNumber>99999999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>Rue de Rose</AddressLine> <CityName>Paris</CityName> <PostalCode>PAR45</PostalCode> <PostalCountry>FR</PostalCountry> </AddressInformation> </PartnerInformation> </CommissionPayee> <AccompanyingSampleCode> <Code Domain="CODE">SampleWithShipment</Code> </AccompanyingSampleCode> <SpecialFulfillmentRequestCode> <Code Domain="CODE">NoSubstitutions</Code> </SpecialFulfillmentRequestCode> <FinalDestinationCountryCode> <Code Domain="ISO">GB</Code> </FinalDestinationCountryCode> <LineItemPurposeCode> <Code Domain="ANSI X12 353">00</Code> </LineItemPurposeCode> </OrderCreateProductLineItem> <OrderCreateProductLineItem> </pre>	

5.3.4.2 Multiple Line Order, continued

Example Markup	Annotation
<pre> <LineNumber>1</LineNumber> <PurchaseOrderLineNumber>21</PurchaseOrderLineNumber> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">9111907</ProductIdentifier> <ProductDescription>Test Product J</ProductDescription> <ProductGradeDescription>High Purity</ProductGradeDescription> </ProductIdentification> </SellerProductInformation> <BuyerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">CD-67129</ProductIdentifier> <ProductDescription>Test Product Gamma Rays</ProductDescription> </ProductIdentification> </BuyerProductInformation> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>890897</DocumentIdentifier> <ReferenceItem>51</ReferenceItem> </DocumentReference> <ProductQuantity> <Measurement UnitOfMeasureCode="kgs">15</Measurement> </ProductQuantity> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <DispatchOnDateTime> <DateTime TimeZone="EST">20011121</DateTime> </DispatchOnDateTime> <ShipTo> <PartnerInformation> <PartnerName>English Test Company</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">286493027</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <TelephoneNumber> <TelecomCountryCode>44</TelecomCountryCode> <AreaCode>20</AreaCode> <PhoneNumber>9999999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>Doe House, Jon Street</AddressLine> <CityName>Dover</CityName> <StateProvince>Kent</StateProvince> <PostalCode>DA12</PostalCode> <PostalCountry>GB</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO"/> </pre>	

5.3.4.2 Multiple Line Order, continued

Example Markup	Annotation
<pre> </ShipmentTermsCode> <ShipmentTermsLocation>CIF</ShipmentTermsLocation> </ShipmentTerms> <RequestedPrice> <Pricing> <MonetaryAmount CurrencyCode="USD">75000</MonetaryAmount> <PriceBasis> <Measurement UnitOfMeasureCode="LB">45000</Measurement> </PriceBasis> </Pricing> </RequestedPrice> <RequestedDocument Language="EN" RequestedDocumentType="MSDS"> <DocumentDeliveryInformation DeliveryMethodQualifier="Email"> <PartnerInformation> <PartnerIdentifier PartnerRole="UltimateConsignee"> <Code Domain="DUNS">286493027</Code> </PartnerIdentifier> <ContactInformation> <EmailAddress>JOHN.DOE@WORK.COM</EmailAddress> </ContactInformation> </PartnerInformation> </DocumentDeliveryInformation> <NumberOfOriginals>1</NumberOfOriginals> <NumberOfCopies>1</NumberOfCopies> </RequestedDocument> <AccompanyingSampleCode> <Code Domain="CODE">SampleWithShipment</Code> </AccompanyingSampleCode> <SpecialFulfillmentRequestCode> <Code Domain="CODE">NoSubstitutions</Code> </SpecialFulfillmentRequestCode> <FinalDestinationCountryCode> <Code Domain="ISO">GB</Code> </FinalDestinationCountryCode> <LineItemPurposeCode> <Code Domain="ANSI X12 353">00</Code> </LineItemPurposeCode> </OrderCreateProductLineItem> </OrderCreateDetails> </OrderCreateBody> </OrderCreate> </pre>	

5.4 Order Change

The Order Change Transaction is initiated by a Buyer (either directly or through a Marketplace) to request that an existing order be changed in specific ways.

5.4.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>OrderChangeProperties:</p> <ul style="list-style-type: none"> • PurchaseOrderTypeCode replaces GlobalPurchaseOrderTypeCode • Element Language replaced by structure LanguageCode • Element Currency replaced by structure CurrencyCode • Element Purpose was replaced by :LineItemPurposeCode and moved from properties level to details level. • New structure DocumentReference with occurrence 0 to many times has been added. • New structure MarketplaceInformation has been added. Structure is optional. • Element InvoicePreference was replaced by a new structure SpecialInvoicePreferenceOccurance of Element SpecialInstructions changed from optional to 0 to many times. • Element ShipmentTerms has become a structure with two elements. • Element GlobalFinanceTermsCode has been replaced by structure PaymentTerms. • Element AknowledgmentType was removed • New structure ShipWithPurchaseOrder with occurrence 0 to many times has been added. • New structure LetterOfCreditInformation has been added optional. • New partner CarrierToExclude has been added optional. • New structure FinalDestinationCountryCode has been added optional. <p>OrderChangePartners:</p> <ul style="list-style-type: none"> • In order to respect Marketplace terminology, partners SoldTo and Supplier have been replaced respectively by partners Buyer and Seller. • Partner SoldTo is still optional partner. See QualificationRequest section for more comments. • Partner DeliverTo has been replaced by partner ShipTo. • Partner SecondaryBuyer has been replaced by partner ThirdParty as these two roles are synonymous. • New partner Payer has been added. •

5.4.1 Release Information, continued

Jan. 2001, <small>cont.</small>	<p>OrderChangeDetails:</p> <ul style="list-style-type: none"> • PurchaseOrderLineItemNumber has been added on detail level because item number in Buyer ERP system may be different from item number in Seller ERP system. • Elements GlobalMaterialIdentifier and MaterialDescription have been replaced by a new structure named ProductIdentification. • Three new structures, SellerProductInformation, mandatory, and BuyerProductInformation and ManufacturerProductInformations optional, have been added. • Element MaterialQuantity has been replaced by new structure ProductQuantity. • Element NumberPackagingUnits has been replaced by new structure PackageQuantity • New element BatchNumber has been added optional. • Element CountryOfOrigin has been renamed CountryOfOriginCode which is a structure. • Element PackListRequirements has been removed. A new structure SpecialFulfillmentRequestCode has been added. • Element SpecialHandlingInstruction has been removed . All texts are now to be covered by the code list of the SpecialInstruction element, occurrence 0 to many. • Element SafetySheetIndicator has been removed. A new structure RequestedDocument has been added • Element CarrierEquipment has been included in a new structure, namely TransportInformation, with occurrence 0 to many. • Elements RequestedDeliveryByDateTime, RequestedDeliveryOnDateTime, RequestedDeliveryBetweenDateTime have been replaced by structures DeliveryByDateTime, DeliveryOnDateTime, DeliveryBetweenDateTime. • New structure DispatchOnDateTime has been added. • Partners ShipTo, Carrier and ThirdParty have been added on item level. • The element ContractIdentifier has been removed and replaced by the structure DocumentReference. • ConfirmedPrice is linked to a new structure, Pricing, which has three qualifiers, MonetaryAmount, PriceBasis and PriceReason.
---------------------------------	--

5.4.1 Release Information, continued

Jan. 2001, cont.	<ul style="list-style-type: none"> • TaxableFlag is a new optional element, which indicates whether an order is taxable or not. • BalanceItemFlag is a new optional element that indicates the item of an order that should fill up the carrier equipment in case there is remaining space. • DutyStatus is a new optional element needed for dutystatus. It has two possible values. • ImportedLicenceNeededFlag and ImportedLicenceAvailableFlag are two new optional elements with boolean values. Y means order should be held in ERP system and N means order can proceed. • CommissionPayee is a new optional partner . • SecondWeightFlag is a new optional element mainly used in Pacific, wherein the weight as determined by the Buyer is basis for goods issue. • CustomerRequestedDeliveryHoldFlag is a new optional element.b • AccompanyingSample is a new optional element with three possible values.
------------------	---

5.4.2 Order Change Data Model

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 5.4.2.a: OrderChange structure

The OrderChange structure is identical to the OrderCreate Structure.

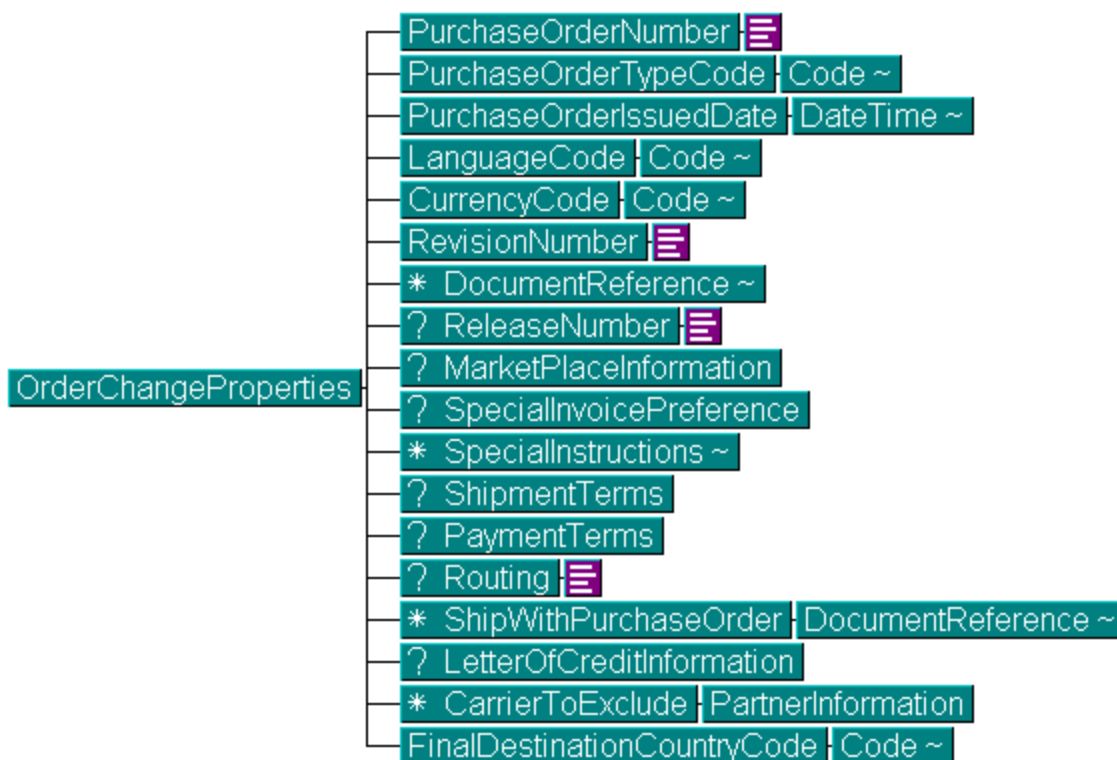
5.4.2 Order Change Data Model, *continued*

Figure 5.4.2.b: OrderChangeProperties structure

OrderChangeProperties is identical to OrderCreateProperties. It contains purchase order level information.

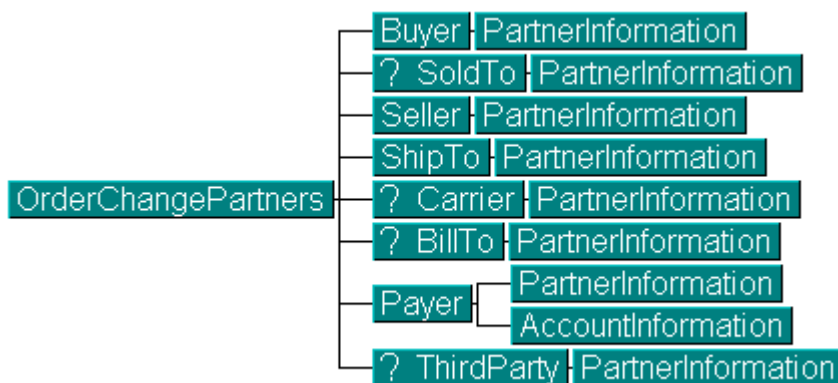


Figure 5.4.2.c: OrderChangePartners structure

OrderChangePartners is identical to OrderCreatePartners. It identifies all parties involved with the purchase order transaction.

5.4.2 Order Change Data Model, continued

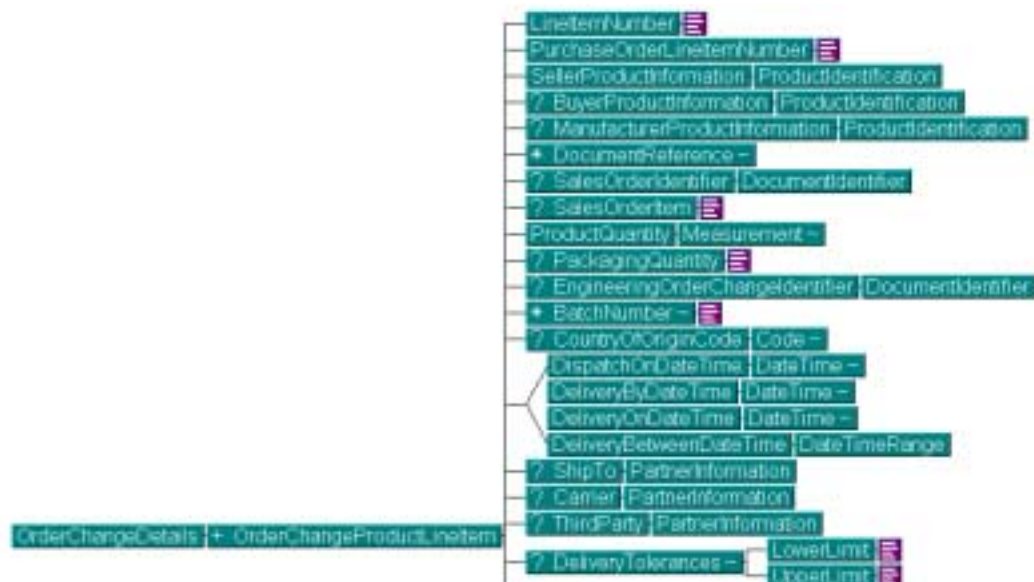


Figure 5.4.2.d: OrderChangeDetails structure (part 1)

OrderChangeDetails is identical to OrderCreateDetails. It contains the line items of the purchase order.



Figure 5.4.2.e: OrderChangeDetails structure (part 2)

OrderChangeDetails is identical to OrderCreateDetails. It contains the line items of the purchase order.

5.4.3 Data Elements and Attributes

Most of the data elements and attributes are described in the Order Create section. The following table only lists the additional data elements and attributes for Order Change business transaction:

OrderChangeDetails section (for other data elements, see OrderCreateDetails section):

Element (E)/Structure (S)	Notes
SalesOrderIdentifier (E)	Order number in the Seller system
SalesOrderItem (E)	Item number in the Seller system

5.4.4 Example Markup

The following are examples of the Order Change business transaction:

5.4.4.1 Single Line Order Change

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <OrderCreate Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000034</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> </pre>	

5.4.4.1 Single Line Order Change, continued

Example Markup	Annotation
<pre> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <OrderCreateBody> <OrderCreateProperties> <PurchaseOrderNumber>987544</PurchaseOrderNumber> <PurchaseOrderTypeCode> <Code Domain="ANSI ASC X12 92">CP</Code> </PurchaseOrderTypeCode> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <RevisionNumber>0</RevisionNumber> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>890897</DocumentIdentifier> </DocumentReference> <SpecialInstructions InstructionType="ShipperInstructions">Ship in Stainless Steel tank car.</SpecialInstructions> <SpecialInstructions InstructionType="ShipperInstructions">Maintain 30 degrees C. in transit</SpecialInstructions> <SpecialInstructions InstructionType="CarrierInstructions">Get Safety instructions at gate entrance to plant. </SpecialInstructions> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">CIF</Code> </ShipmentTermsCode> <ShipmentTermsLocation>Dover</ShipmentTermsLocation> </ShipmentTerms> <PaymentTerms> <TermsOfSale>CIF</TermsOfSale> </PaymentTerms> <ShipWithPurchaseOrder> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>987542</DocumentIdentifier> </DocumentReference> </ShipWithPurchaseOrder> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> </OrderCreateProperties> </pre>	

5.4.4.1 Single Line Order Change, continued

Example Markup	Annotation
<pre> <OrderCreatePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain=" DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> <Payer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain=" DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> </pre>	

5.4.4.1 Single Line Order Change, *continued*

Example Markup	Annotation
<pre> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Payer> </OrderCreatePartners> <OrderCreateDetails> <OrderCreateProductLineItem> <LineItemNumber>1</LineItemNumber> <PurchaseOrderLineItemNumber>10</PurchaseOrderLineItemNumber> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">90969909</ProductIdentifier> <ProductDescription>Test Product B</ProductDescription> </ProductIdentification> </SellerProductInformation> <BuyerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">AB-34244</ProductIdentifier> <ProductDescription>Test Product Beta-1 Highly Confidential</ProductDescription> </ProductIdentification> </BuyerProductInformation> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>890897</DocumentIdentifier> <Referenceltem>6</Referenceltem> </DocumentReference> <ProductQuantity> <Measurement UnitOfMeasureCode="kgs">25</Measurement> </ProductQuantity> <CountryOfOriginCode> <Code Domain="ISO">US</Code> </CountryOfOriginCode> <DispatchOnDateTime> <DateTime TimeZone="EST">20011121</DateTime> </DispatchOnDateTime> <LineItemPurposeCode> <Code Domain="ANSI ASC X12 353">04</Code> </LineItemPurposeCode> </OrderCreateProductLineItem> </OrderCreateDetails> </OrderCreateBody> </OrderCreate> </pre>	

5.5 Order Response

The Order Response Transaction is initiated by the Seller to communicate to the Buyer (either directly or through a Marketplace) the Seller's agreement to supply a specific amount of product, at a specific price, according to set pricing terms, on an agreed-upon date, using agreed-upon transportation arrangements.

5.5.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>OrderResponseProperties:</p> <ul style="list-style-type: none"> • PurchaseOrderTypeCode replaces GlobalPurchaseOrderTypeCode • Element Language replaced by structure LanguageCode • Element Currency replaced by structure CurrencyCode • Element Purpose was replaced by LineItemPurposeCode and moved from properties level to details level. • New structure DocumentReference with occurrence 0 to many times has been added. • New structure MarketplaceInformation has been added. Structure is optional. • Element InvoicePreference was replaced by a new structure SpecialInvoicePreferenceOccurrence of Element SpecialInstructions changed from optional to 0-many times. • Element ShipmentTerms has become a structure with two elements. • Element GlobalFinanceTermsCode has been replaced by structure PaymentTerms. • Element AcknowledgmentType was removed • New structure ShipWithPurchaseOrder with occurrence 0 to many times has been added. • New structure LetterOfCreditInformation has been added optional. • New partner CarrierToExclude has been added optional. • New structure FinalDestinationCountryCode has been added optional.

5.5.1 Release Information, *continued*

Jan. 2001, <i>cont.</i>	<p>OrderResponsePartners:</p> <ul style="list-style-type: none"> • In order to respect Marketplace terminology, the partners SoldTo and Supplier have been replaced respectively by partners Buyer and Seller. • Partner SoldTo is still optional partner. See QualificationRequest section for more comments. • Partner DeliverTo has been replaced by partner ShipTo. • Partner SecondaryBuyer has been replaced by ThirdParty as these two partners are synonymous. • New partner Payer has been added. <p>OrderResponseDetails:</p> <ul style="list-style-type: none"> • PurchaseOrderLineItemNumber has been added on detail level because item number in Buyer ERP system may be different from item number in Seller ERP system. • Elements GlobalMaterialIdentifier and MaterialDescription have been replaced by a new structure named ProductIdentification. • Three new structures, SellerProductInformation, mandatory, and BuyerProductInformation and ManufacturerProductInformation, optional, have been added. • Element MaterialQuantity has been replaced by new structure ProductQuantity. • Element NumberPackagingUnits has been replaced by new structure PackageQuantity • New element BatchNumber has been added optional. • Element CountryOfOrigin has been replaced by structure CountryOfOriginCode . • Elements PackListRequirements has been removed. A new structure SpecialFulfillmentRequestCode has been added. • Element SpecialHandlingInstruction has been removed . All texts are now to be covered by the code list of the SpecialInstruction element, occurrence 0 to many. • Element SafetySheetIndicator has been removed. A new structure RequestedDocument has been added • Element CarrierEquipment has been included in a new structure, namely TransportInformation with occurrence 0 to many. • Elements RequestedDeliveryByDate Time, RequestedDeliveryOnDate Time, RequestedDeliveryBetweenDate Time have been replaced by structures DeliveryByDate Time, DeliveryOnDate Time, DeliveryBetweenDate Time.
-------------------------	--

5.5.1 Release Information, *continued*

Jan. 2001, <i>cont.</i>	<ul style="list-style-type: none"> • New structure <code>DespatchOnDateTime</code> has been added. This last structure covers Buyer pick up case. • Structures <code>ShipTo</code>, <code>Carrier</code> and <code>ThirdParty</code> have been added on item level. • The element <code>ContractIdentifier</code> has been removed and replaced by the structure <code>DocumentReference</code>. • <code>RequestedPrice</code> is linked to a new structure, <code>Pricing</code>, which has three qualifiers, <code>MonetaryAmount</code>, <code>PriceBasis</code> and <code>PriceReason</code>. • <code>TaxableFlag</code> is a new optional element that indicates whether an order is taxable or not. • <code>BalanceItemFlag</code> is a new optional element that indicates the item of an order that should fill up the carrier equipment in case there is remaining space. • <code>DutyStatus</code> is a new optional element needed for dutystatuses. It has two possible values. • <code>ImportedLicenceNeededFlag</code> and <code>ImportedLicenceAvailableFlag</code> are two new optional elements. Y means order should be held in ERP system and N means order can proceed. • <code>CommissionPayee</code> is a new optional partner. • <code>SecondWeightFlag</code> is a new optional element. • <code>CustomerRequestedDeliveryHoldFlag</code> is a new optional element. • <code>AccompanyingSample</code> is a new optional element with three possible values. • Element <code>Description</code> has been added. • Structures <code>GlobalPurchaseOrderLineStatusCode</code> and <code>GlobalPurchaseLineResponseReasonCode</code> have been replaced by structures <code>LineStatusCode</code> and <code>LineResponseReasonCode</code>.
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5.5.2 Order Response Data Model

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

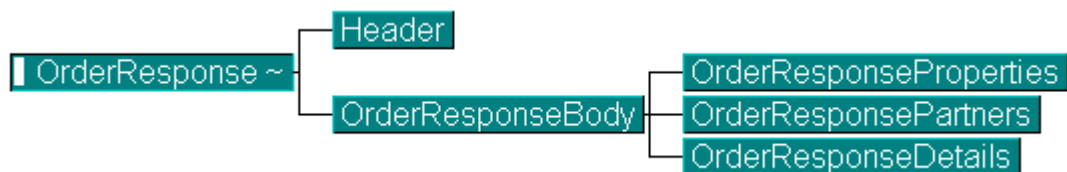


Figure 5.5.2.a: OrderResponse structure

The OrderResponse structure is very similar to the other Order Structures. It has additional response codes on the purchase order and the line item level.

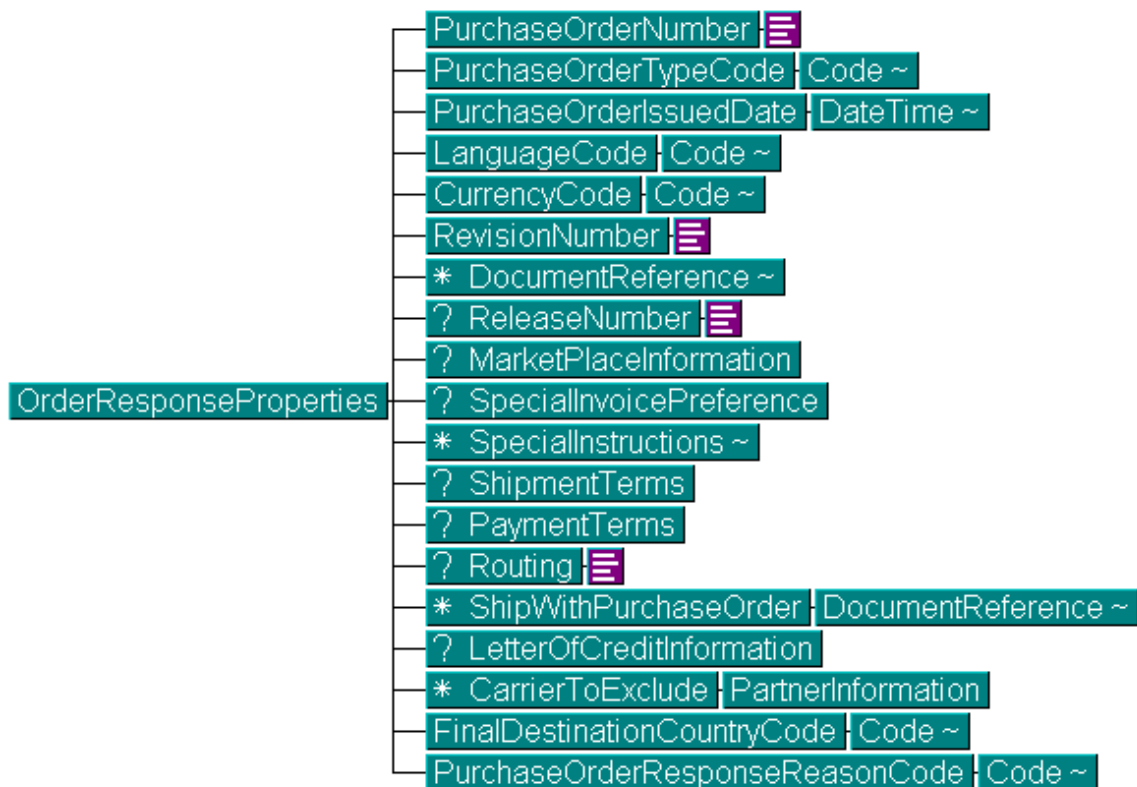
5.5.2 Order Response Data Model, *continued*

Figure 5.5.2.b: OrderResponseProperties structure

This structure is identical to OrderCreateProperties with the addition of PurchaseOrderResponseReasonCode.

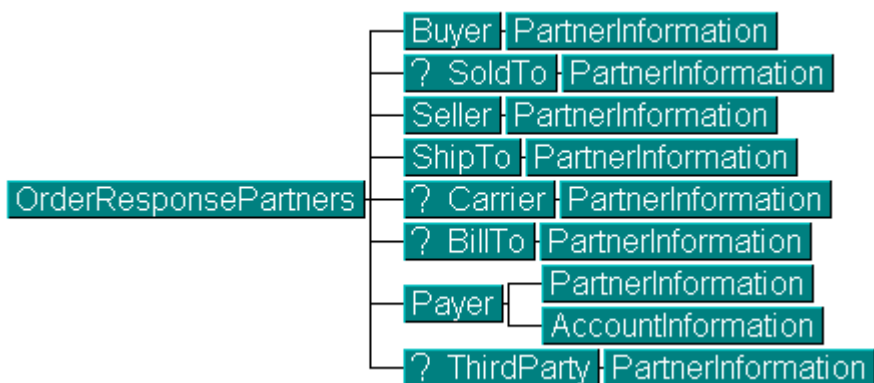


Figure 5.5.2.c: OrderResponsePartners structure

Identifies the parties involved with the purchase order.

5.5.2 Order Response Data Model, continued



Figure 5.5.2.d: OrderResponseDetails structure (part 1)



Figure 5.5.2.e: OrderResponseDetails structure (part 2)

5.5.3 Data Elements and Attributes

Most of the following data elements and attributes have been described in the Order Create section. The following table only lists the additional data elements and attributes for the Order Response transaction:

OrderResponseDetails section: (for other elements/structures, see also OrderCreateDetails section)

Element (E)/Structure (S)	Notes
ConfirmedPrice (S)	Instead of RequestedPrice in OrderCreate
Description (E)	e.g. Delivery date has been changed, Order is confirmed.

5.5.4 Example Markup

The following are examples of the Order Response business transaction:

5.5.4.1 Positive Order Response for Single Line Order

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <OrderResponse Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000034</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001108T1200</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000034</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="EST">20001107T1300</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> </pre>	

5.5.4.1 Positive Order Response for Single Line Order, *continued*

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">423145908</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <OrderResponseBody> <OrderResponseProperties> <PurchaseOrderNumber>987544</PurchaseOrderNumber> <PurchaseOrderTypeCode> <Code Domain="ANSI ASC X12 92">KN</Code> </PurchaseOrderTypeCode> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <RevisionNumber>0</RevisionNumber> <SpecialInvoicePreference> <InvoiceMode CommunicationMode="Fax"/> <BillingScheduleCode> <Code Domain="CODE">LAST DAY OF MONTH</Code> </BillingScheduleCode> </SpecialInvoicePreference> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> <PurchaseOrderResponseReasonCode> <Code Domain="CODE">Rejected</Code> </PurchaseOrderResponseReasonCode> </OrderResponseProperties> <OrderResponsePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">423145908</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Buyer> </OrderResponsePartners> </pre>	

5.5.4.1 Positive Order Response for Single Line Order, *continued*

Example Markup	Annotation
<pre> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain=" DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> <Payer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> <AccountInformation> <AccountHolderName>New Age Chemical</AccountHolderName> </AccountInformation> </Payer> </OrderResponsePartners> <OrderResponseDetails> <OrderResponseProductLineItem> </pre>	

5.5.4.1 Positive Order Response for Single Line Order, *continued*

Example Markup	Annotation
<pre> <LineNumber>1</LineNumber> <PurchaseOrderLineNumber>10</PurchaseOrderLineNumber> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">90065302</ProductIdentifier> <ProductDescription>Test Product A</ProductDescription> <ProductGradeDescription/> </ProductIdentification> </SellerProductInformation> <SalesOrderIdentifier> <DocumentIdentifier>136985</DocumentIdentifier> </SalesOrderIdentifier> <SalesOrderItem>1</SalesOrderItem> <ProductQuantity> <Measurement UnitOfMeasureCode="kgs">20</Measurement> </ProductQuantity> <DeliveryByDateTime> <DateTime TimeZone="EST">200001127T0600</DateTime> </DeliveryByDateTime> <ChangeAcknowledgementFlag>Yes</ChangeAcknowledgementFlag> <LineStatusCode> <Code Domain="CODE">Accepted</Code> </LineStatusCode> <LineResponseReasonCode> <Code Domain="CODE">Accepted</Code> </LineResponseReasonCode> <LineItemPurposeCode> <Code Domain="ANSI X12 353">06</Code> </LineItemPurposeCode> </OrderResponseProductLineItem> </OrderResponseDetails> </OrderResponseBody> </OrderResponse> </pre>	

5.5.4.2 Negative Order Response for Multiple Line Order

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <OrderResponse Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000034</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001108T1200</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000034</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="EST">20001107T1300</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain=" DUNS">423145908</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <OrderResponseBody> <OrderResponseProperties> <PurchaseOrderNumber>987544</PurchaseOrderNumber> <PurchaseOrderTypeCode> <Code Domain="ANSI ASC X12 92">KN</Code> </PurchaseOrderTypeCode> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <LanguageCode> </pre>	

5.5.4.2 Negative Order Response for Multiple Line Order, *continued*

Example Markup	Annotation
<pre> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <RevisionNumber>0</RevisionNumber> <SpecialInvoicePreference> <InvoiceMode CommunicationMode="Fax"/> <BillingScheduleCode> <Code Domain="CODE">LAST DAY OF MONTH</Code> </BillingScheduleCode> </SpecialInvoicePreference> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> <PurchaseOrderResponseReasonCode> <Code Domain="CODE">Rejected</Code> </PurchaseOrderResponseReasonCode> </OrderResponseProperties> <OrderResponsePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">423145908</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain=" DUNS">345123789</Code> </PartnerIdentifier> </PartnerInformation> </ShipTo> </pre>	

5.5.4.2 Negative Order Response for Multiple Line Order, *continued*

Example Markup	Annotation
<pre> <AddressInformation> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> <Payer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> <AccountInformation> <AccountHolderName>New Age Chemical</AccountHolderName> </AccountInformation> </Payer> </OrderResponsePartners> <OrderResponseDetails> <OrderResponseProductLineItem> <LineItemNumber>2</LineItemNumber> <PurchaseOrderLineItemNumber>21</PurchaseOrderLineItemNumber> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">9111907</ProductIdentifier> <ProductDescription>Test Product J</ProductDescription> <ProductGradeDescription>High Purity</ProductGradeDescription> </ProductIdentification> </SellerProductInformation> <SalesOrderItem>1</SalesOrderItem> <ProductQuantity> <Measurement UnitOfMeasureCode="kgs">15</Measurement> </ProductQuantity> <DeliveryByDateTime> <DateTime TimeZone="EST">200001127T0600</DateTime> </DeliveryByDateTime> <ChangeAcknowledgementFlag>Yes</ChangeAcknowledgementFlag> <LineStatusCode> <Code Domain="CODE">Accepted</Code> </LineStatusCode> <LineResponseReasonCode> <Code Domain="CODE">Accepted</Code> </LineResponseReasonCode> </pre>	

5.5.4.2 Negative Order Response for Multiple Line Order, *continued*

Example Markup	Annotation
<pre> <LinItemPurposeCode> <Code Domain="ANSI X12 353">06</Code> </LinItemPurposeCode> </OrderResponseProductLinItem> <OrderResponseProductLinItem> <LinItemNumber>1</LinItemNumber> <PurchaseOrderLinItemNumber>10</PurchaseOrderLinItemNumber> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">90065302</ProductIdentifier> <ProductDescription>Test Product A</ProductDescription> </ProductIdentification> </SellerProductInformation> <SalesOrderIdentifier> <DocumentIdentifier>136985</DocumentIdentifier> </SalesOrderIdentifier> <SalesOrderItem>2</SalesOrderItem> <ProductQuantity> <Measurement UnitOfMeasureCode="kgs">20</Measurement> </ProductQuantity> <DeliveryByDateTime> <DateTime TimeZone="EST">200001127T0600</DateTime> </DeliveryByDateTime> <ChangeAcknowledgementFlag>Yes</ChangeAcknowledgementFlag> <LineStatusCode> <Code Domain="CODE">Accepted</Code> </LineStatusCode> <LineResponseReasonCode> <Code Domain="CODE">Accepted</Code> </LineResponseReasonCode> <LinItemPurposeCode> <Code Domain="ANSI X12 353">06</Code> </LinItemPurposeCode> </OrderResponseProductLinItem> </OrderResponseDetails> </OrderResponseBody> </OrderResponse> </pre>	

5.6 OrderStatusResponse

The OrderStatusResponse Transaction is initiated by the Seller to communicate to the Buyer (either directly or through a Marketplace) to identify the current status of orders that have been previously placed.

5.6.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>OrderStatusProperties:</p> <ul style="list-style-type: none"> • PurchaseOrderTypeCode replaces GlobalPurchaseOrderTypeCode • Element Language replaced by structure LanguageCode • Element Currency replaced by structure CurrencyCode • New structure MarketplaceInformation has been added. Structure is optional. • Occurrence of Element SpecialInstructions changed from optional to 0 to many times. • Element ShipmentTerms has become a structure with two elements. • Element AknowledgmentType was removed • New structure ShipWithPurchaseOrder with occurrence 0 to many times has been added. • New structure LetterOfCreditInformation has been added optional. • New structure FinalDestinationCountryCode has been added optional. <p>OrderStatusPartners:</p> <ul style="list-style-type: none"> • In order to respect Marketplace terminology, the partner Supplier has been replaced by the partner Seller and the partner Buyer has been added. • Partner DeliverTo has been replaced by partner ShipTo. <p>OrderStatusDetails:</p> <ul style="list-style-type: none"> • PurchaseOrderLineItemNumber has been added on detail level because item number in Buyer ERP system may be different from item number in Seller ERP system. • Elements GlobalMaterialIdentifier and MaterialDescription have been replaced by a new structure named ProductIdentification. • Three new structures, SellerProductInformation, mandatory, and BuyerProductInformation and ManufacturerProductInformation, optional, have been added. • Elements SalesOrderIdentifier and SalesOrderItem have been added. • Element MaterialQuantity has been replaced by new structure ProductQuantity.

5.6.1 Release Information, continued

Jan. 2001, <small>cont.</small>	<ul style="list-style-type: none"> • Element NumberPackagingUnits has been replaced by new structure PackageQuantity • Structure LineStatusCode has been added. • New element BatchNumber has been added optional. • Element CountryOfOrigin has been replaced by structure CountryOfOriginCode . • Element SpecialHandlingInstruction has been removed. All texts are now to be covered by the code list of the SpecialInstruction element, occurrence 0 to many. • Element CarrierEquipment has been included in a new structure, TransportInformation, with occurrence 0 to many. • Elements RequestedDeliveryByDateTime, RequestedDeliveryOnDateTime, RequestedDeliveryBetweenDateTime have been replaced by structures DeliveryByDateTime, DeliveryOnDateTime, DeliveryBetweenDateTime. • New structure DespatchOnDateTime has been added. • Structures ShipTo, Carrier and ThirdParty have been added on item level. • The element ContractIdentifier has been removed and replaced by the structure DocumentReference. • ConfirmedPrice is linked to a new structure, Pricing, which has three qualifiers, MonetaryAmount, PriceBasis and PriceReason. • CustomerRequestedDeliveryHoldFlag is a new optional element.
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5.6.2 OrderStatusResponse Data Model

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

5.6.2 OrderStatusResponse Data Model, *continued*

Figure 5.6.2.a: OrderStatusResponse structure



Figure 5.6.2.b: OrderStatusResponseProperties structure.

The OrderStatusProperties structure gives information about the purchase order to which the status pertains.

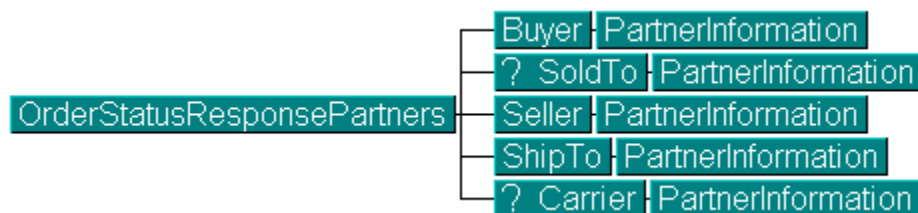


Figure 5.6.2.c: OrderStatusResponsePartners structure

Identifies the partners involved with the purchase order to which the status pertains.

5.6.2 OrderStatusResponse Data Model, continued

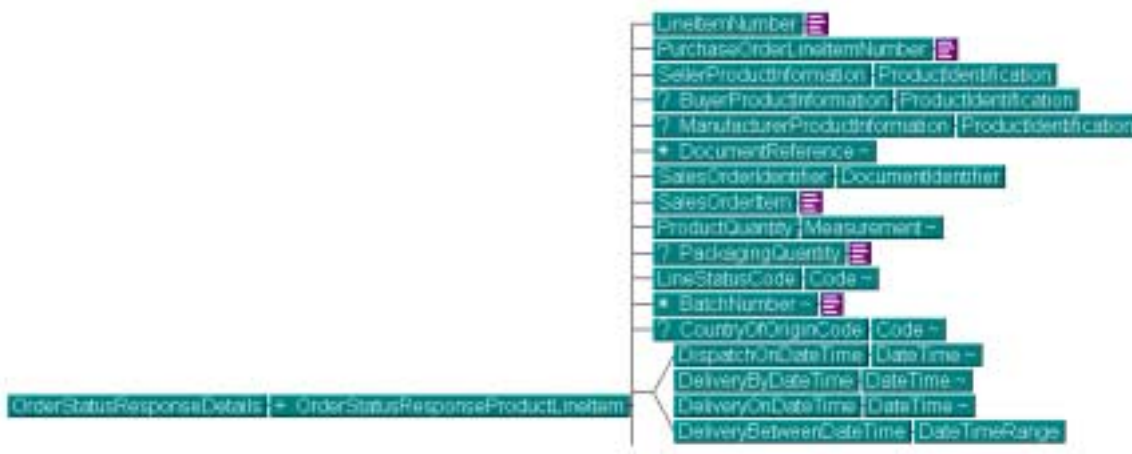


Figure 5.6.2.d: OrderStatusResponseDetails structure (part 1)



Figure 5.6.2.d: OrderStatusResponseDetails structure (part 2)

5.6.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Order Status Response business transaction:

OrderStatusProperties section:

Element (E)/Structure (S)	Notes
PurchaseOrderNumber (E)	Order number from the Buyers purchasing system
PurchaseOrderTypeCode (S)	It can be a standard order, a blanket order, etc.
RevisionNumber (E)	Data Dictionary Definition: Number associated with the shipment against a forecast! What does this mean for OrderCreates?
ReleaseNumber (E)	Data Dictionary Definition: Specification of goods, services or information.
SpecialInstructions (E)	For different text information regarding the order
ShipmentTerms (S)	Combination of shipment terms and the location.
ShipWithPurchaseOrder (S)	Describes which purchase order items the current purchase order should be shipped with. This information is provided by the DocumentIdentifier which is mandatory and by the optional element ReferenceItem
FinalDestinationCountryCode (S)	Mandatory for legal issue.

OrderStatusPartner section (see Appendix F – Common Data Elements for description of PartnerData):

Element (E)/Structure (S)	Notes
BillTo (S)	Essentially the address to which the invoice is sent.
Payer (S)	Partner who pays the invoice while BillTo partner is the invoice recipient. BillTo may be different from Payer. Therefore, Payer has been defined as a mandatory structure with PartnerInformation and Account information.

5.6.3 Data Elements and Attributes, *continued***OrderStatusDetails section:**

Element (E)/Structure (S)	Notes
ProductIdentifier (E)	Number of the product in the Seller ERP system to packaging level.
BuyerProductInformation (S)	BuyerProductInformation may be useful if the Buyer requires a reference to their description for the ordered product.
BatchNumber (E)	optional because Buyer might require a particular batch.
Carrier (S)	Special Carrier for this order item
TransportInformation (S)	Refers to a particular transport leg.
Carrier (S)	Partner
ShipFrom (S)	Location for this leg
ShipTo (S)	Partner for this leg
CarrierEquipment (E)	Should be CarrierEquipmentCode because linked to a code list
DocumentReference (S)	Carrier Contract
TransportName (E)	Truck TR123
CommissionPayee (S)	Partner acting as an Agent.
SpecialInstructions (E)	For different text information regarding the order item

5.6.4 Example Markup

The following are examples of the Order Status Response business transaction:

5.6.4.1 Order Status Response

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <OrderStatusResponse Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000092</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="EST">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">423145908</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </To> </Header> <OrderStatusResponseBody> <OrderStatusResponseProperties> <PurchaseOrderNumber>987543</PurchaseOrderNumber> </OrderStatusResponseProperties> </OrderStatusResponseBody> </OrderStatusResponse> </pre>	

5.6.4.1 Order Status Response, continued

Example Markup	Annotation
<pre> <PurchaseOrderTypeCode> <Code Domain="ANSI ASC X12 92">KN</Code> </PurchaseOrderTypeCode> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> <RevisionNumber>1</RevisionNumber> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> </OrderStatusResponseProperties> <OrderStatusResponsePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="423145908"/> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> </pre>	

5.6.4.1 Order Status Response, continued

Example Markup	Annotation
<pre> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> </OrderStatusResponsePartners> <OrderStatusResponseDetails> <OrderStatusResponseProductLineItem> <LineItemNumber>1</LineItemNumber> <PurchaseOrderLineItemNumber>10</PurchaseOrderLineItemNumber> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">90969909</ProductIdentifier> <ProductDescription>Test Product B</ProductDescription> </ProductIdentification> </SellerProductInformation> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>890897</DocumentIdentifier> <ReferenceItem>6</ReferenceItem> </DocumentReference> <SalesOrderIdentifier> <DocumentIdentifier>136985</DocumentIdentifier> </SalesOrderIdentifier> <SalesOrderItem>1</SalesOrderItem> <ProductQuantity> <Measurement UnitOfMeasureCode="kgs">25</Measurement> </ProductQuantity> <LineStatusCode> <Code Domain="CODE">Approved</Code> </LineStatusCode> <DispatchOnDateTime> <DateTime TimeZone="EST">20011121</DateTime> </DispatchOnDateTime> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> </OrderStatusResponseProductLineItem> </OrderStatusResponseDetails> </OrderStatusResponseBody> </OrderStatusResponse> </pre>	

5.7 Order Status Request

The Order Status Request Transaction is initiated by a Buyer (either directly or through a Marketplace) to inquire about the status of an order.

5.7.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>Properties:</p> <ul style="list-style-type: none"> • Structure Properties replaced by OrderStatusRequestProperties • Element Language has been replaced by structure LanguageCode. • Structure MarketPlaceInformation added with 0-1 occurrence. <p>Partners:</p> <ul style="list-style-type: none"> • Structure OrderStatusInquiryPartners added. • Partners Buyer, SoldTo, Seller and ShipTo included in OrderStatusInquiryPartners structure. <p>Details:</p> <ul style="list-style-type: none"> • Structure Details replaced by OrderStatusRequestDetails. • Structure ProductLineItem replaced by OrderStatusRequestProductLineItem • Element LineNumber replaced by LineItemNumber. • Element SalesOrderIdentifier has become a structure containing element DocumentIdentifier. • Element SalesOrderItem has been added.

5.7.2 Order Status Request Data Model

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

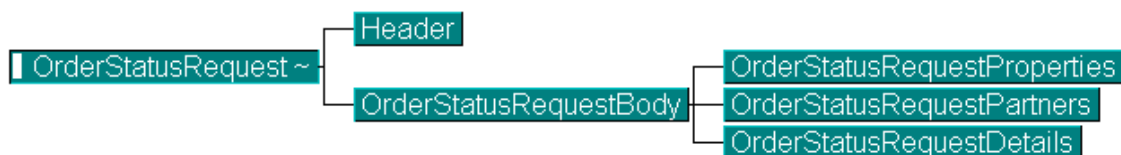


Figure 5.7.2.a: OrderStatusRequest structure

The OrderStatusRequest structure contains enough information to allow a Buyer to specify a purchase order (in the properties) and, optionally, specific purchase order line items.

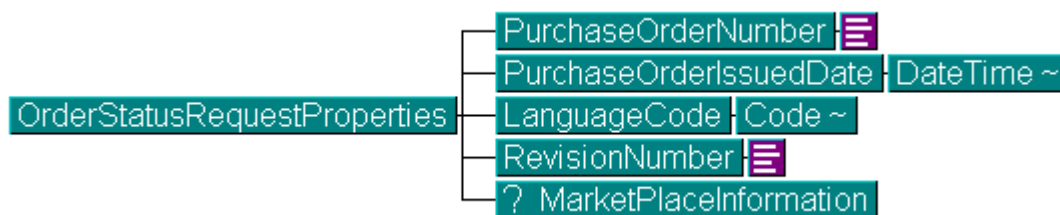


Figure 5.7.2.b: OrderStatusRequestProperties structure

The OrderStatusRequestProperties structure contains the data necessary to identify the purchase order to which the status pertains.

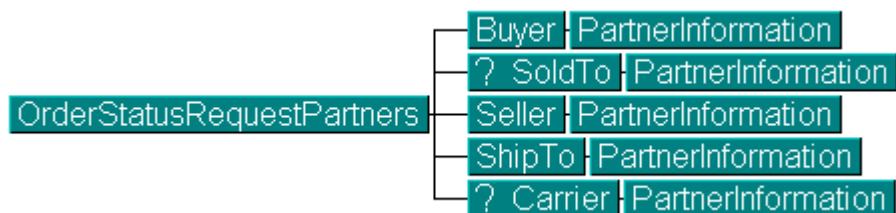
5.7.2 Order Status Request Data Model, *continued*

Figure 5.7.2.c: OrderStatusRequestPartners structure



Figure 5.7.2.c: OrderStatusRequestDetails structure.

The details structure allows the Buyer to optionally request status on particular line items of the purchase order. If no line items are specified, it is assumed that status of the entire purchase order is being requested.

5.7.3 Data Elements and Attributes

The following tables list the data elements and attributes for the Order Status Request business transaction:

OrderStatusRequestProperties section:

The OrderStatusRequestProperties section does not contain elements/structures that require notes.

OrderStatusRequestPartners section (see Appendix F – Common Data Elements for description of PartnerData):

The OrderStatusRequestPartners section does not contain elements/structures that require notes.

OrderStatusRequestDetails section:

The OrderStatusRequestDetails section does not contain elements/structures that require notes.

5.7.4 Example Markup

The following are examples of the Order Status Request business transaction:

5.7.4.1 Order Status Request

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <OrderStatusRequest Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000092</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="EST">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </To> </Header> </pre>	

5.7.4.1 Order Status Request, continued

Example Markup	Annotation
<pre> <OrderStatusRequestBody> <OrderStatusRequestProperties> <PurchaseOrderNumber>987543</PurchaseOrderNumber> <PurchaseOrderTypeCode> <Code Domain="ANSI ASC X12 92">KN</Code> </PurchaseOrderTypeCode> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> <RevisionNumber>1</RevisionNumber> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> </OrderStatusRequestProperties> <OrderStatusRequestPartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> </pre>	

5.7.4.1 Order Status Request, continued

Example Markup	Annotation
<pre> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> </OrderStatusRequestPartners> <OrderStatusRequestDetails> <OrderStatusRequestProductLineItem> <LineItemNumber>1</LineItemNumber> <PurchaseOrderLineItemNumber>10</PurchaseOrderLineItemNumber> <SellerProductInformation> <ProductIdentification> <ProductIdentifier Agency="EAN">90969909</ProductIdentifier> <ProductDescription>Test Product B</ProductDescription> </ProductIdentification> </SellerProductInformation> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>890897</DocumentIdentifier> <Referenceltem>6</Referenceltem> </DocumentReference> <SalesOrderIdentifier> <DocumentIdentifier>136985</DocumentIdentifier> </SalesOrderIdentifier> <SalesOrderItem>1</SalesOrderItem> <ProductQuantity> <Measurement UnitOfMeasureCode="kgs">25</Measurement> </ProductQuantity> <LineStatusCode> <Code Domain="CODE">Approved</Code> </LineStatusCode> <DispatchOnDateTime> <DateTime TimeZone="EST">20011121</DateTime> </DispatchOnDateTime> <FinalDestinationCountryCode> <Code Domain="ISO 3166">US</Code> </FinalDestinationCountryCode> </OrderStatusRequestProductLineItem> </OrderStatusRequestDetails> </OrderStatusRequestBody> </OrderStatusRequest> </pre>	

5.8 Order Cancel

The Order Cancel Transaction is initiated by a Buyer (either directly or through a Marketplace) to request that an existing order be cancelled.

5.8.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>Properties:</p> <ul style="list-style-type: none">• Structure Properties replaced by OrderCancelProperties• PurchaseOrderNumberIssueDate has become a structure.• Element Language has been replaced by structure LanguageCode.• Structure MarketPlaceInformation was added with 0-1 occurrence. <p>Partners:</p> <ul style="list-style-type: none">• Structure OrderStatusRequestPartners has been added.• Partners Buyer, SoldTo, Seller, Carrier, BillTo, Payer, ShipTo and ThirdParty included in OrderCancelPartners structure.

5.8.2 Order Cancel Data Model

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 5.8.2.a: OrderCancel structure

The OrderCancel transaction applies to the entire purchase order and therefore includes only partners and properties. There is no details structure because it is not relevant to cancel individual line items.

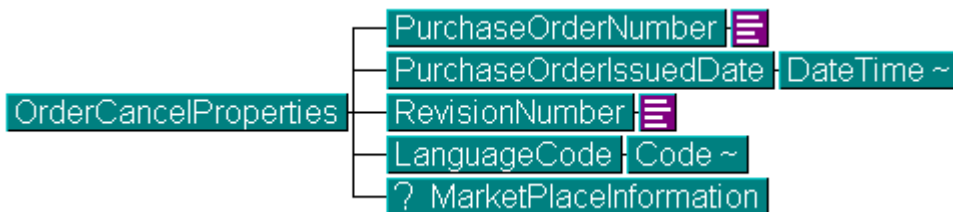


Figure 5.8.2.b: OrderCancelProperties structure

This structure contains the elements that identify the purchase order that's being cancelled.

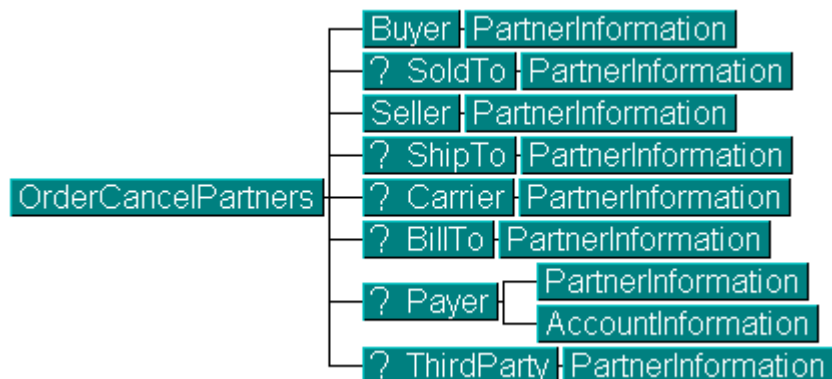
5.8.2 Order Cancel Data Model, *continued*

Figure 5.8.2.c: OrderCancelPartners structure

This structure contains the elements that identify the purchase order that's being cancelled.

5.8.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Order Cancel business transaction:

OrderCancelProperties section:

The OrderCancelProperties section does not contain elements/structures that require notes.

OrderCancelPartners section (see Appendix F – Common Data Elements for description of PartnerData):

Element (E)/Structure (S)	Notes
Buyer (S)	Only Buyer and Seller are mandatory

5.8.4 Example Markup

The following are examples of the Order Cancel business transaction:

5.8.4.1 Order Cancel

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <OrderCancel Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000041</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001107T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="EST">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </To> </Header> <OrderCancelBody> <OrderCancelProperties> </pre>	

5.8.4.1 Order Cancel, continued

Example Markup	Annotation
<pre> <PurchaseOrderNumber>987543</PurchaseOrderNumber> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <RevisionNumber>1</RevisionNumber> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> </OrderCancelProperties> <OrderCancelPartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> </AddressInformation> </PartnerInformation> </ShipTo> </pre>	

5.8.4.1 Order Cancel, continued

Example Markup	Annotation
<pre> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> <Payer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain=" DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Payer> </OrderCancelPartners> </OrderCancelBody> </OrderCancel> </pre>	

5.9 Order Cancel Response

The Order Cancel Response Transaction is initiated by a Seller to communicate to a Buyer (either directly or through a Marketplace) that an “Order Cancel” transaction has been received and has been accepted or rejected by the Seller’s order processing system.

5.9.1 Release Information

Aug. 2000	Initial Release 1.0
Jan. 2001	<p>Changes in Release 2.0:</p> <p>Properties:</p> <ul style="list-style-type: none"> • Structure Properties replaced by OrderCancelResponseProperties • Element PurchaseOrderIssuedDate was changed into a structure, linked to element DateTime • Element Language has been replaced by structure LanguageCode. • The element GlobalPurchaseOrderResponseReasonCode was renamed into PurchaseOrderResponseReasonCode • The element GlobalPurchaseOrderStatusCode was renamed into PurchaseOrderStatusCode • Structure MarketPlaceInformation was added with 0-1 occurrence. <p>Partners:</p> <ul style="list-style-type: none"> • OrderCancelResponsePartners sections was added • Partners Buyer, SoldTo, Seller, Carrier, BillTo, Payer, ShipTo and ThirdParty included in OrderCancelResponsePartners structure, where all have 0-1 occurrence except Buyer and Seller which have mandatory occurrence.

5.9.2 Order Cancel Response Data Model

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#). The Common Data Elements are located in [Appendix F](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 5.9.2.a: OrderCancelResponse structure

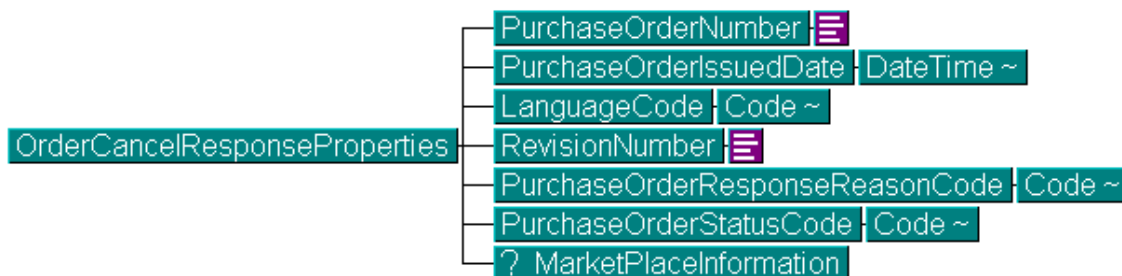


Figure 5.9.2.b: OrderCancelResponseProperties structure

This structure contains the information necessary to identify the purchase order being referred to in the response message.

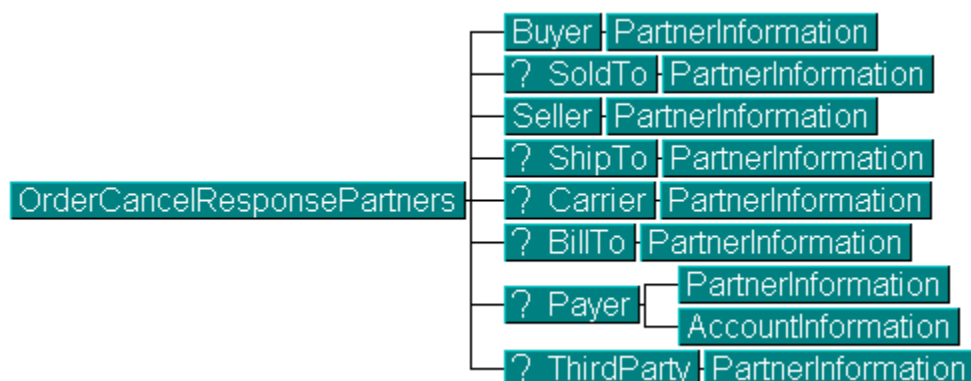
5.9.2 Order Cancel Response Data Model, continued

Figure 5.9.2.c: OrderCancelResponsePartners structure

This structure contains the information necessary to identify the purchase order being referred to in the response message.

5.9.3 Data Elements and Attributes

The following table lists the data elements and attributes for Qualification Request Response business transaction:

OrderCancelResponseProperties section:

The OrderCancelResponseProperties section does not contain elements/structures that require notes.

OrderCancelPartners section (see Appendix F – Common Data Elements for description of PartnerData):

Element (E)/Structure (S)	Notes
Payer (S)	Consists of partner data and special account information (see below)

5.9.4 Example Markup

The following are examples of the Order Cancel Response business transaction:

5.9.4.1 Confirmed Order Cancel Response

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <OrderCancelResponse Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000133</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001207T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="EST">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </To> </Header> </pre>	

5.9.4.1 Confirmed Order Cancel Response, continued

Example Markup	Annotation
<pre> <OrderCancelResponseBody> <OrderCancelResponseProperties> <PurchaseOrderNumber>987543</PurchaseOrderNumber> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> <RevisionNumber>1</RevisionNumber> <PurchaseOrderResponseReasonCode> <Code Domain="RosettaNet">Acknowledged</Code> </PurchaseOrderResponseReasonCode> <PurchaseOrderStatusCode> <Code Domain="CODE">Cancelled</Code> </PurchaseOrderStatusCode> </OrderCancelResponseProperties> <OrderCancelResponsePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical - Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> </pre>	

5.9.4.1 Confirmed Order Cancel Response, continued

Example Markup	Annotation
<pre> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> <Payer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Payer> </OrderCancelResponsePartners> </OrderCancelResponseBody> </OrderCancelResponse> </pre>	

5.9.4.2 Rejected Order Cancel Response

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <OrderCancelResponse Version="2.0"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>10000133</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001207T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>10000001</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="EST">20000117T1530</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Marketplace XChemicals</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">111555222</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>South Street</AddressLine> <CityName>Philadelphia</CityName> <StateProvince>PA</StateProvince> <PostalCode>19130</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </To> </Header> <OrderCancelResponseBody> <OrderCancelResponseProperties> <PurchaseOrderNumber>987543</PurchaseOrderNumber> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001107</DateTime> </PurchaseOrderIssuedDate> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> </OrderCancelResponseProperties> </OrderCancelResponseBody> </OrderCancelResponse> </pre>	

5.9.4.2 Rejected Order Cancel Response, continued

Example Markup	Annotation
<pre> </LanguageCode> <RevisionNumber>1</RevisionNumber> <PurchaseOrderResponseReasonCode> <Code Domain="RosettaNet">Rejected</Code> </PurchaseOrderResponseReasonCode> <PurchaseOrderStatusCode> <Code Domain="CODE">Fulfilled</Code> </PurchaseOrderStatusCode> </OrderCancelResponseProperties> <OrderCancelResponsePartners> <Buyer> <PartnerInformation> <PartnerName>BASF</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>3000 Continental Drive</AddressLine> <CityName>Mount Olive</CityName> <StateProvince>NJ</StateProvince> <PostalCode>07828</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL>www.basf.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">345123456</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2020 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20585</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <URL/> </PartnerInformation> </Seller> <ShipTo> <PartnerInformation> <PartnerName>New Age Chemical – Plant 012</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>77 Highland Street</AddressLine> <AddressLine>Plant 12</AddressLine> <CityName>Dover</CityName> <StateProvince>DE</StateProvince> <PostalCode>12562</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> </pre>	

5.9.4.2 Rejected Order Cancel Response, *continued*

Example Markup	Annotation
<pre> </AddressInformation> </PartnerInformation> </ShipTo> <Payer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">345123789</Code> </PartnerIdentifier> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Payer> </OrderCancelResponsePartners> </OrderCancelResponseBody> </OrderCancelResponse> </pre>	

6.0 Logistics

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6.1 Introduction and Scope of Effort

Logistics defines the exchange of data that is required to enable the transmission of data regarding shipments for chemicals, plastics products, and related services. If a Marketplace is included in the process, the scope only includes the business functions from Business-to-Marketplace and Business-to-Business (B2B).

Load Tender Motor	Used to offer the transport of a specific motor shipment from place of Origin to final Destination. The information that is transmitted contains all shipment information (e.g., product description including hazardous classification, if applicable, weight, and pickup and delivery dates).
Load Tender Rail	Used to offer the transport of a specific rail shipment from place of Origin to final Destination. The information that is transmitted contains all shipment information (e.g., rail car number, product description including hazardous classification codes).
Load Tender Ocean	Used to offer the transport of a specific export shipment from place of Origin to final Destination. The information transmitted contains all shipment information (e.g., container number, product description).
Load Tender Response	Used to respond to an offered Load Tender. The information that is transmitted either accepts or rejects the offer to transport.
Shipment Status	Used to report the whereabouts of a Tendered and Accepted shipment. The information that is transmitted indicates the location of the shipment (e.g., In Transit, Delivered).
Ship Notice	Used to inform the receiver of the shipment what has been shipped.
Freight Bill	Used to charge the BillTo party the cost of transport charges incurred. This transaction includes charges for actual transportation along with additional charges, called Accessorial Charges (e.g., demurrage, detention, fuel surcharge).
Carrier Weights	Used to convey weights and scale information between interested parties

6.1.1 Key Scope Assumptions

- The transactions developed concentrate on the major business functions between Shipper, Carrier, and Customer/Consignee (e.g., Load Tender, Load Tender Response, Freight Bill). The transactions developed are not to be considered all-inclusive.
- Load Tendering transactions are specific for each mode of Transportation (e.g., Motor, Ocean, Rail). The messages are separate because the minimum information required by a specific mode (e.g., Rail requires railcar number at the time of the Load Tender).
- Freight Billing transaction can be used for Motor, Rail, and Freight Forwarding activities.
- Air Shipments are out of the scope of this document unless handled through a Freight Forwarder for an Export shipment.
- The transactions can be used bi-directional.

6.1.2 Key Business Model Assumptions

- The transaction assumptions are as follows:
 - The messages between the Seller/Shipper and the Carrier and includes all developed transactions.
 - The messages between the Seller/Shipper and the Buyer/Consignee.
 - The messages between the Carrier and the Buyer/Consignee.
 - The messages between the Buyer/Consignee and the Seller/Shipper.
 - The messages between the Buyer, Seller, or Carrier to Marketplace and vice-versa.
 - Notice should be taken that the message content does not change regardless of the originating party. In other words, the developed transactions support bi-directional communication.
- Some Carriers perform the function of a third party logistics firm and communicate with alternate Carriers. The message remains the same regardless of the originator.
- Partners are identified by D-U-N-S numbers.
- The methodology supports both contracted and non-contracted Carrier transactions.
- ISO, UN/EDIFACT, and ANSI ASC X12 code lists are used throughout the data elements within the Logistics transactions.
- RosettaNet had no transactions to support the Logistics process and could not be used.

6.2 Business Process Diagrams with Descriptions

6.2.1 Motor Transactions

The following diagram shows a series of transactions between the Seller/Shipper and Carrier, Marketplace and Buyer/Consignee. It begins with a Load Tender Motor that has a series of data to adequately inform the Carrier of all the information known about a pending shipment. It can be directed to either the Marketplace or directly to a Carrier. Some Carriers serve as a logistics provider and contract with other Carriers. Once a Carrier accepts the load, there are transactions to provide acceptance, shipment status, and finally an invoice. The Shipper can also inform the Buyer/Consignee of the various status steps as well as to provide that entity with data concerning the shipment.

Figure 6.2.1.a

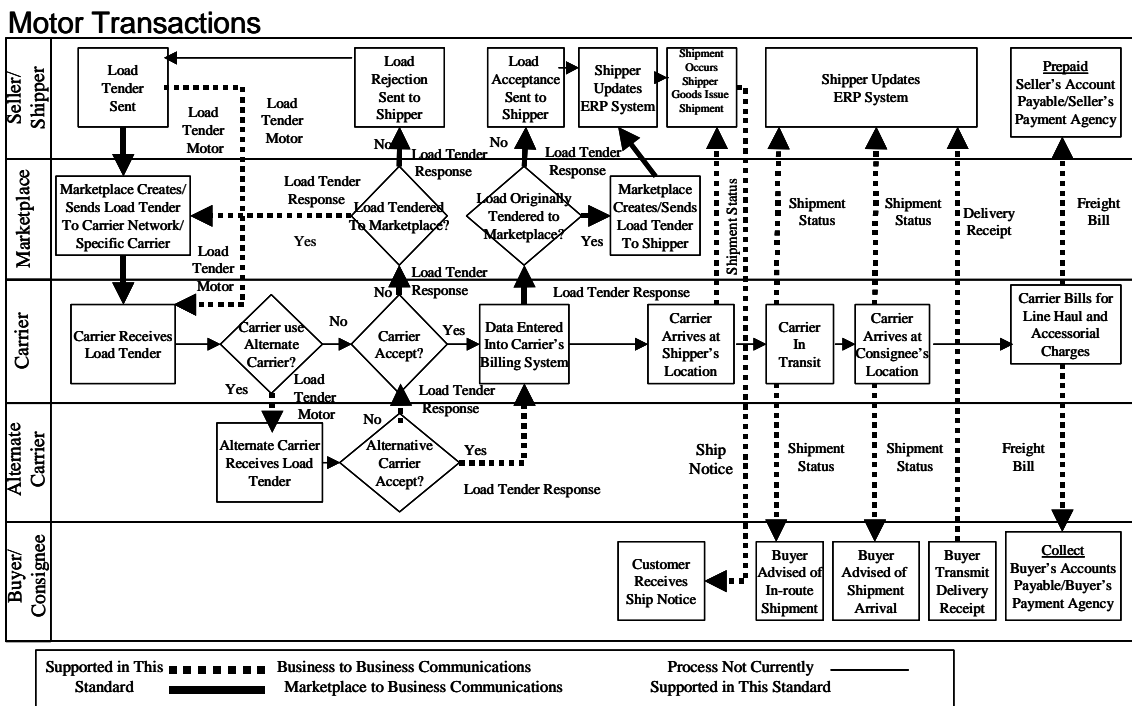


Figure 6.2.1.a depicts the message flow within the Motor Carrier arena. Message flow starts with the Seller/Shipper placing a Load Tender Motor message to a Carrier or to the marketplace to find a Carrier who commits to picking up and delivering a load (or series of loads). The Carrier itself may commit, or it may broker the load by re-sending this message to an alternate Carrier to get the alternate Carrier's commitment. The Carrier (or alternate Carrier, if used) responds back through the chain, either accepting or rejecting the load using a Load Tender Response message. If rejecting the load, the Seller or marketplace must re-tender the load to another Carrier. If the Carrier accepts the load, the Seller's system is updated with the name of the Carrier (and alternate Carrier, if applicable).

6.2.1 Motor Transactions, continued

After the load has been tendered and accepted, there are a series of steps where a Carrier may send a Shipment Status message to the Seller/Shipper (and Buyer/Consignee, if appropriate). Examples of this are arrival at the Shipper's location, locations en route, and arrival at the Consignee's location.

After the Carrier departs the Shipper's location, a Ship Notice is generated by the Seller to the Buyer, Consignee, and other interested parties.

Upon arrival, the Consignee transmits a DeliveryReceipt message to the Seller. Any discrepancies between units transmitted on the Ship Notice and actual receipt are noted.

At the conclusion, the Carrier submits a Freight Bill message to the partner liable to pay freight. The alternate Carrier (if applicable) would also send this message to the Carrier who brokered the load.

Marketplace Model	<p>The Marketplace provides intermediary services between Shipper and Carrier:</p> <ul style="list-style-type: none"> • Communications/translations • Application Service Provider (ASP) • Third/fourth party logistics provider (3PL/4PL)
B2B Model	<p>Most of the activity is carried out between the Seller/Shipper and the Carrier via a predetermined Carrier selection process. In addition, shipment status can be provided to either the Seller/Shipper or to both the Seller/Shipper and Buyer/Consignee to advise of events such as departure, location en route, and arrival. Finally, a freight invoice is submitted to Buyer or Seller, or agents of these parties.</p>

Scenarios for Motor Transactions

See Section 6.2.5 Load Tender Motor for scenarios.

6.2.2 Rail Transactions

The following diagram shows a series of transactions between the Seller/Shipper, Carrier, and Buyer/Consignee. It begins with a Load Tender Rail (Bill of Lading) that has a series of data to adequately inform the Carrier of all of the information known about a pending shipment. It is generally sent directly to a Carrier. It begins with a loaded railcar to be moved and can be resent when the actual loaded weight is known. The Shipper can also inform the Buyer/Consignee of the various status steps, as well as providing that entity with data concerning the shipment.

Figure 6.2.2.a

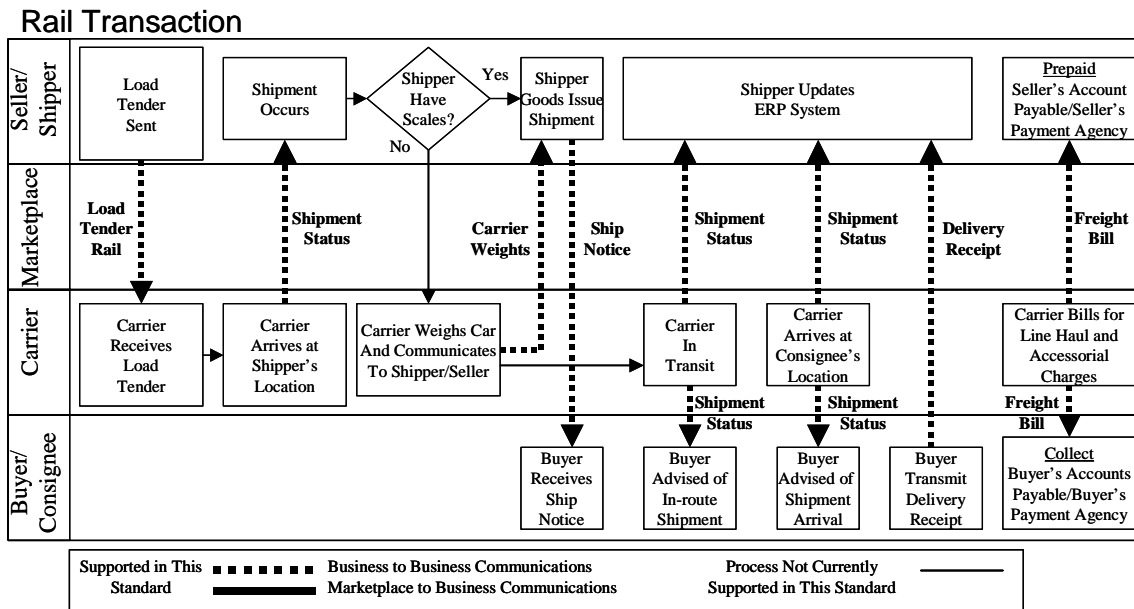


Figure 6.2.2.a depicts the message flow within the Rail Carrier arena. It starts with the Seller/Shipper placing a Load Tender Rail message to a Carrier to pick up and deliver a load (or series of loads). For the railroads, this is commonly known as the Bill of Lading. Due to the limited number of railroads and the relatively small number of shippers who are served by more than one Carrier, bidding between various railroads is much less common than between motor Carriers.

After the load has been tendered and accepted, there are a series of steps where a Carrier may send a Shipment Status message to the Seller/Shipper (and Buyer/Consignee or other third party, if appropriate). Examples of this are arrival at the Shipper's location, locations en route, and arrival (and departure) at the Consignee's location.

Often the official weights are not known prior to the departure of the train. Once the train has pulled the car over a "weigh-in-motion" set of scales, the actual weights are transmitted using the Carrier Weights message. If the scales are located on the Shipper's property, the Shipper sends this message to the railroad replacing the estimated weights on the Load Tender Rail with these actual weights. It could also be used by the railroad sending these weights back to the Shipper when scaling off site.

6.2.2 Rail Transactions, continued

After the Carrier departs the Shipper's location, and once the actual weights are known, the Seller generates a Ship Notice to the Buyer/Consignee and other interested parties.

Upon arrival, the Consignee transmits a DeliveryReceipt message to the Seller. Any discrepancies between units transmitted on the Ship Notice and actual receipt are noted.

At the conclusion, the Carrier submits a Freight Bill message to the partner liable to pay the freight.

Marketplace Model	<p>The Marketplace provides intermediary services between the Shipper and Carrier:</p> <ul style="list-style-type: none"> • Communications • ASP
B2B Model	<p>Most of the activity is carried out between the Seller/Shipper and the Carrier via a predetermined selection process. In addition, the shipment status can be provided either to the Seller/Shipper or to both the Seller/Shipper and Buyer/Consignee to advise of events such as departure, location en route, and arrival. Finally, a freight invoice is submitted to the Buyer or Seller, or agents of these parties.</p>

Scenarios for Rail Transactions

See 6.2.6 Load Tender Rail for scenarios.

6.2.3 Ocean Transactions

The following diagram shows a series of transactions between the Seller/Shipper and Carrier, Marketplace and Buyer/Consignee. It begins with a Load Tender Ocean that has a series of data to adequately inform the Carrier of all the information known about a pending shipment. It could be directed to the Marketplace for a bid on services, or sent directly to a Carrier. The forwarder, acting as an agent of the Shipper, can inform the Buyer/Consignee of the various status steps as well as to provide that entity with data concerning the shipment. Finally, an invoice is tendered for haulage, duty, and forwarder's service charge.

Figure 6.2.3.a

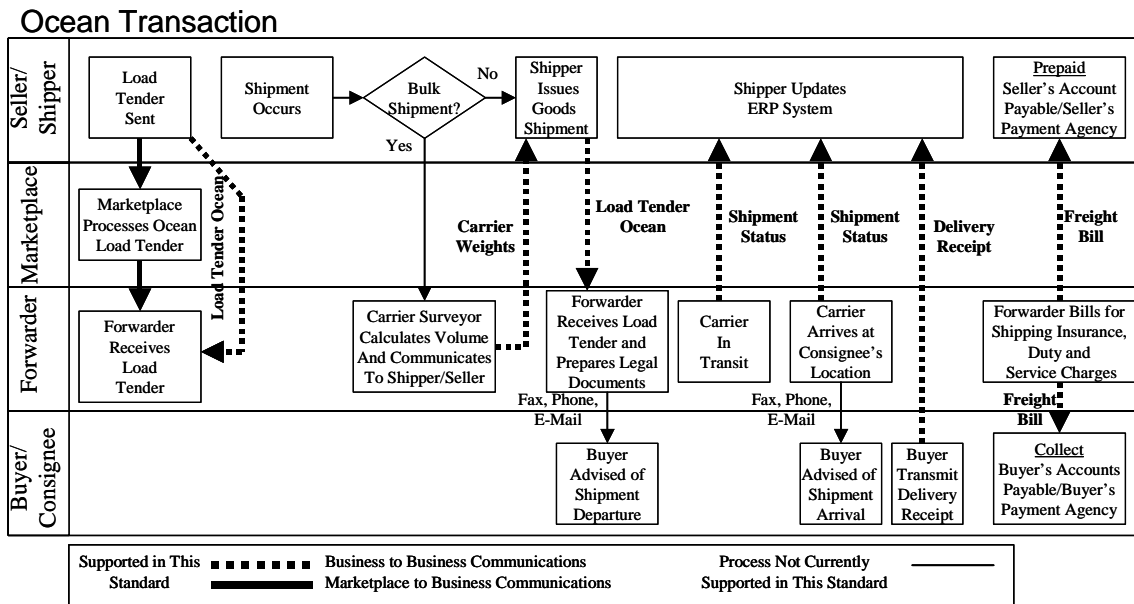


Figure 6.2.3.a depicts the message flows within the Import/Export arena and typically depicts messages between the Shipper and freight forwarder, who completes the activities on behalf of the Shipper. Message flows start with the Seller/Shipper placing a Load Tender Ocean message to the forwarder or to the marketplace to find a forwarder who commits to finding a vessel to haul the load. When the Carrier accepts the load, the Seller's system is updated with the name of the Carrier, vessel name, voyage number, and booking number.

Weights are generally determined for bulk shipments after the vessel has departed and is obtained from data derived from strapping tables and are adjusted for temperature or pressure. The surveyor appointed to determine these values to the Shipper conveys these.

After the load has been tendered and accepted, there are a series of steps where a Carrier may send a Shipment Status message to the Seller/Shipper (and Buyer/Consignee, if appropriate). Examples of this are departure from the dock, arrival at the destination port, and ultimate arrival at the Consignee's location.

6.2.3 Ocean Transactions, continued

The forwarder typically transmits any notifications to the Buyer/Consignee while en route; these are out of scope at this time.

Upon arrival, the Consignee transmits a Delivery Receipt message to the Seller. Any discrepancies between units transmitted on the Ship Notice and actual receipt are noted.

At the conclusion, the Carrier submits a Freight Bill message to the forwarder. The forwarder transmits a Freight Bill to the partner liable to pay freight. The forwarder's Freight Bill includes charges for duty, insurance, and its service charge in addition to freight.

It should be also noted that these transactions could also be used for air transportation of goods where a forwarder is involved.

Marketplace Model	<p>The Marketplace provides intermediary services between the Shipper and Carrier:</p> <ul style="list-style-type: none"> • Communications • ASP
B2B Model	<p>Most of the activity is carried out between the Seller/Shipper and freight forwarder. The Load Tender Ocean is typically used first when a shipment has been created and is used by freight forwarder to select (nominate) a vessel. The Load Tender Ocean is resent again to the forwarder when either the vessel has been loaded (bulk) or a container is ready for drayage, as the forwarder prepares all the legal documentation to the Carrier, customs, and the Buyer. The shipment status can be provided to either the Seller/Shipper or to both the Seller/Shipper and Buyer/Consignee to advise of events such as departure, location en route, and arrival.</p>

Scenarios for Ocean Transactions

See 6.2.7 Load Tender Ocean for scenarios.

6.2.4 Warehouse/Terminals Transactions

The following diagram shows a series of transactions between the Seller/Shipper and warehouses and terminals that it uses. The transaction series begins with the notification of a replenishment stock order and its receipt. Subsequent activity centers on a shipping instruction and its completion. Inventory adjustments are also shown.

Figure 6.2.4.a

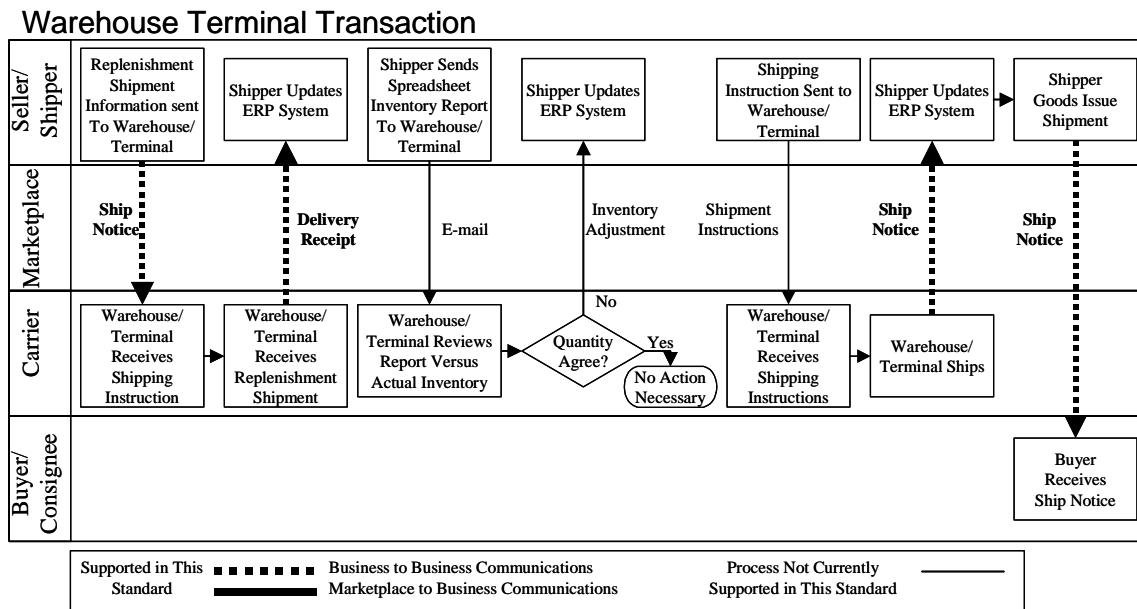


Figure 6.2.4.a illustrates the logical flow of product to and from warehouses and terminals, and the message transmitted at each step. While these were outside of the scope of Phase 2 efforts, a fair percentage of overall logistics-based activity deals with either the replenishment of stock to these locations or shipments to customers from these locations. The Ship Notice and DeliveryReceipt transactions are the same for these flows as those depicted for motor or rail shipments.

The Seller/Shipper generates a Ship Notice to the warehouse/terminal to advise personnel that replenishment is sent. Once this replenishment shipment has arrived, the warehouse/terminal advises the Seller of its arrival with a DeliveryReceipt message so that the inventory in the Seller’s system is accurate. Should any adjustments be required, an Inventory Adjustment message is also sent to the Seller to update the Seller’s system. The InventoryAdjustment message needs to be developed, but is quite simple in nature as long as batch or lot number and product code changes are recognized within.

The Load Tender Ocean, being the most comprehensive message of shipping information, could be duplicated for the Shipping Instructions. The Ship Notice is often used today for the Shipping Advice.

6.2.4 Warehouse/Terminals Transactions, continued

When a shipment is ordered against a warehouse or terminal, a Shipping Instruction message is sent to the warehouse/terminal.

Once the shipment has occurred, the Shipping Advice is transmitted to the Seller so that the Seller can transmit a Ship Notice to the Buyer/Consignee or other interested parties. It is not often generated by the warehouse or terminal because many customers desire cumulative totals that could reflect products shipped from multiple locations.

Marketplace Model	The Warehouse/Terminal (W/T) transactions are normally not used with the Marketplace due to the restrictions placed by the Seller on the W/T responsible for the inventory.
B2B Model	This series of transactions occurs between the Seller/Shipper and the W/Ts to move replenishment product to the W/Ts, and then to inform the W/Ts about shipments that are required. In turn, the W/Ts advise the Seller of the shipment made and of any inventory adjustments that may be required (e.g., relotting of a tank where the previous lot number must be zeroed out and a new lot number created). Ship Notices are not sent from the W/Ts, but rather from the Seller because of the cumulative total requirement.

Scenarios for Warehouse/Terminal Transactions

See specific transactions for scenarios.

6.2.5 Load Tender Motor

The Load Tender Motor transaction begins with either the Seller/Shipper or the Marketplace initiating an offer to pick up and deliver a load to a Buyer or Consignee. The transaction may go to the Marketplace or directly to a predetermined Carrier. The Carrier, shown below may be the actual Carrier that handles the load, or it may broker it to an alternate Carrier with which it subcontracts.

The Approved Carrier responds to Shipper/Seller with an acceptance or rejection of tender.

Figure 6.2.5.a

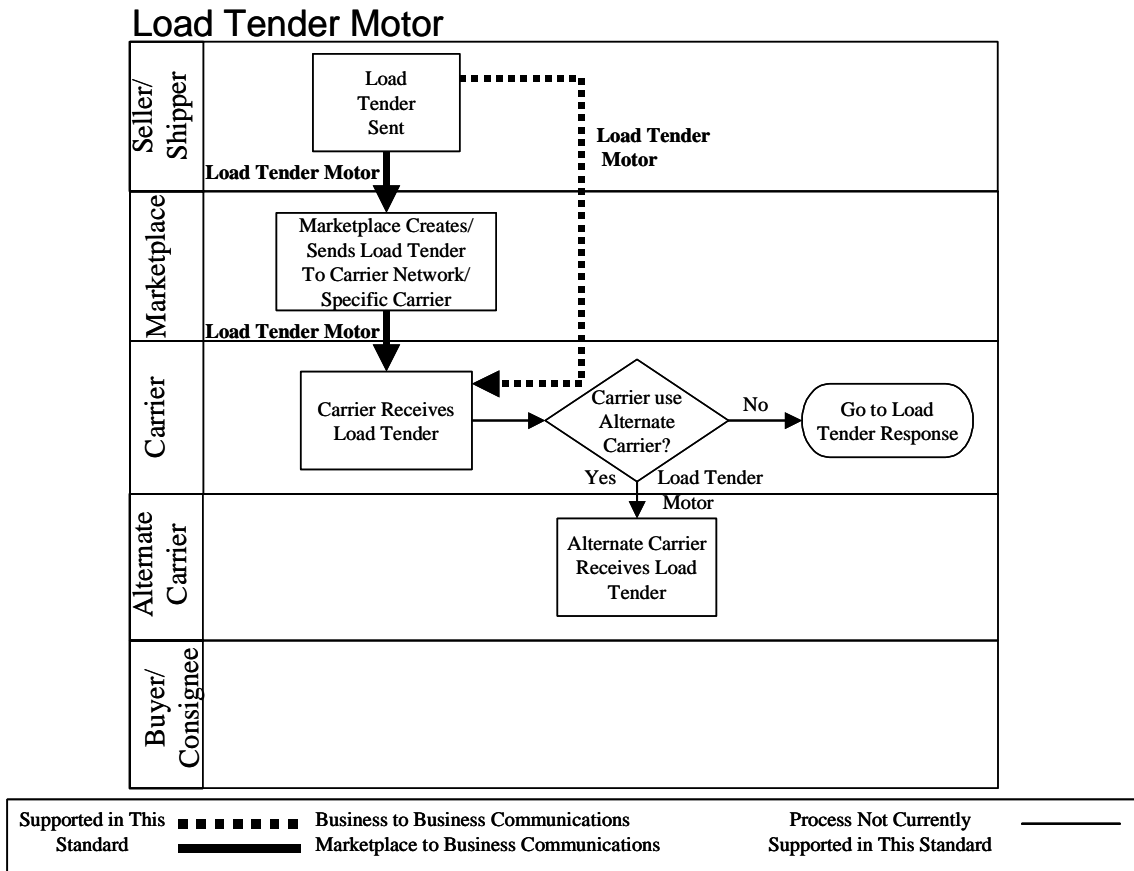


Figure 6.2.5.a starts with the Seller/Shipper placing a Load Tender Motor message to a Carrier or to the Marketplace to find a Carrier to commit to picking up and delivering a load (or series of loads). The Marketplace itself could initiate this message. The Carrier may commit, or it may broker the load by re-sending this message to an alternate Carrier to get the alternate Carrier's commitment.

Scenarios for Load Tender Motor

The following scenarios depict the ways a Load Tender shall be initiated and accepted or rejected by the receiving partner. These scenarios are consistent for Load Tender Motor, Load Tender Rail, and Load Tender Ocean. The Seller/Shipper directly tenders the order for transportation to an approved Carrier.

- Seller/Shipper tenders the order for transportation to the Marketplace, and the Marketplace acts as the Shipper

Required to offer a shipment to a Carrier for transport

The Marketplace acts as the Shipper by tendering the shipment to the participating approved identified member Carrier within the Marketplace for acceptance or rejection. The Carrier responds via the load tender response. If the Carrier rejects, the Marketplace re-tenders the load to other approved participating carriers until load tender is received and accepted. **Marketplace can be made up of third party logistics companies (3PLs), Freight Forwarders, on-line exchanges, electronic marketplaces and transportation brokers.**

- Seller/Shipper tenders the shipment to a Carrier and the Carrier acts as the Shipper.

Required to offer a shipment to a Carrier for transport

The Seller/Shipper tenders the order for transportation to a Carrier, in turn, the Carrier places a transportation order to the Marketplace and the Marketplace tenders order to an approved alternate Carrier.

- Buyer/Consignee directly tenders the order for transportation to an approved Carrier.

Required to offer a shipment to a Carrier for transport

This is typically done when the freight cost to transport the shipment is paid by the Buyer/Consignee. In this case the Buyer/Consignee acts as the Shipper.

- Buyer/Consignee tenders the shipment to a Marketplace to arrange transport.

Required to offer a shipment to a Carrier for transport

Buyer/Consignee tenders order for transportation to Marketplace in turn to the participating approved member Carrier within the Marketplace. If Carrier rejects, the Marketplace re-tenders the load to other participating approved Carriers until load tender is received and accepted. Once accepted, the Marketplace responds via the load tender response to the Buyer/Consignee.

- Buyer/Consignee tenders the shipment to an approved Carrier and the Carrier acts as a Shipper.

Required to offer a shipment to a Carrier for transport

The Buyer/Consignee tenders the order for transportation to an approved Carrier, in turn the Carrier places the transportation order to the Marketplace, and the Marketplace tenders the order to an approved alternate Carrier.

[Load Tender Motor Example Markup](#)

6.2.6 Load Tender Rail

The Load Tender Rail transaction originates from the Seller/Shipper and is sent directly to a rail Carrier to notify the Carrier that a load is ready to be pulled. It may also be sent after the railcar has been pulled to advise the Carrier of the final weight if the Carrier Weight transaction is not used to convey this information to the Carrier.

The Marketplace can be involved if the Seller/Shipper prefers to send the transaction to the Marketplace so that it can provide additional services and data aggregation.

Figure 6.2.6.a

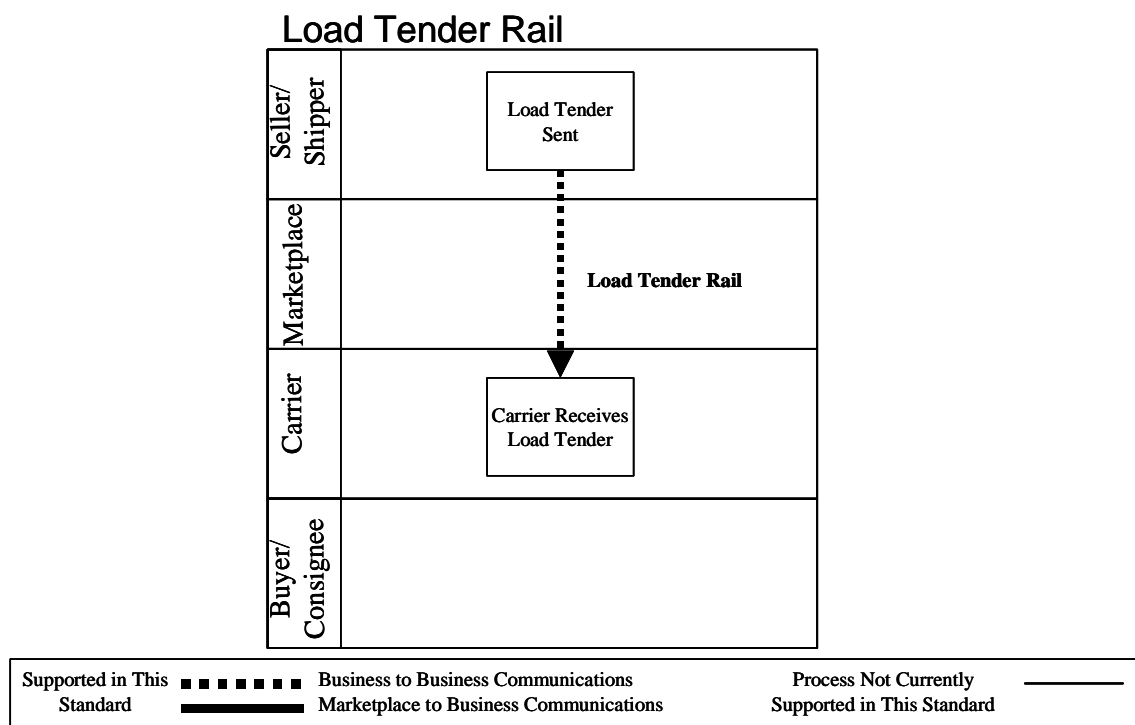


Figure 6.2.6.a depicts the message flows within the Rail Carrier arena. It starts with the Seller/Shipper placing a Load Tender Rail message to a Carrier to pick up and deliver a load (or series of loads). For the railroads, this is commonly known as the Bill of Lading. Since rail Carriers have territorial jurisdictions, there is no bidding between various railroads, and the Marketplace is not shown since the Shipper's location determines which railroad Carrier must be used.

Scenarios for Load Tender Rail

See Load Tender Motor

[Load Tender – Rail Example Markup](#)

6.2.7 Load Tender Ocean

The Load Tender Ocean can be sent originally to the Marketplace for shipment consolidation and bidding, or can be sent directly from the Seller/Shipper to an Ocean Freight Forwarder, who arranges for a shipment through a nomination process, weeks in advance of the actual shipping date.

This transaction may also occur after shipment (once the actual weights, package marks, and pricing is known), so that the forwarder can prepare the Bill of Lading and any other legal documents, including the commercial invoice and all customs documents. This transaction may occur between the Shipper's freight forwarder and another freight forwarder selected by the Buyer.

Figure 6.2.7.a

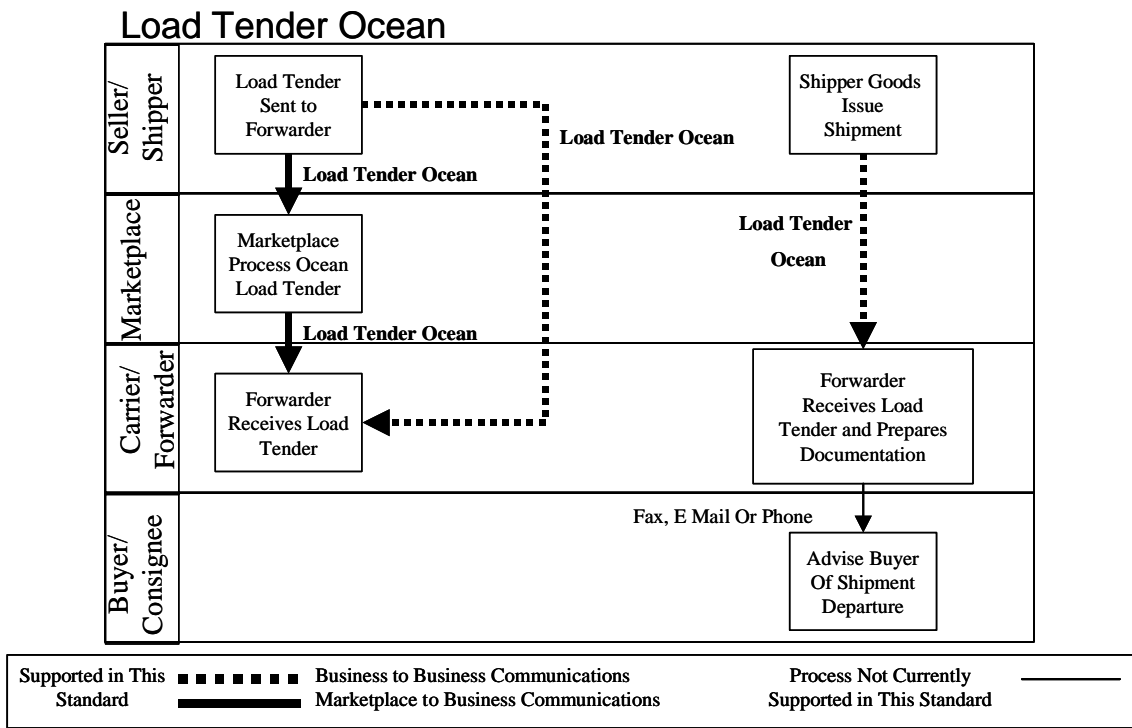


Figure 6.2.7.a depicts the message flows within the Import/Export arena and typically depicts the Seller/Shipper placing a Load Tender Ocean message to the forwarder or to the Marketplace to find a forwarder to commit to finding a vessel to haul the load.

It also depicts a final transmission once the vessel has departed; updated with the name of the Carrier, vessel name, voyage number, and booking number; and would contain final weights, seal numbers, container numbers, etc.

Scenarios for Load Tender Ocean

See Load Tender Motor

[Load Tender - Ocean Example Markup](#)

6.2.8 Load Tender Response

The Load Tender Response is the reply from the Carrier (or alternate Carrier), either accepting the load or rejecting it. If the load is being brokered, the response is from a North American carrier, it shows the actual Carrier's Standard Carrier Alpha Code (SCAC) and a booking number.

Figure 6.2.8.a

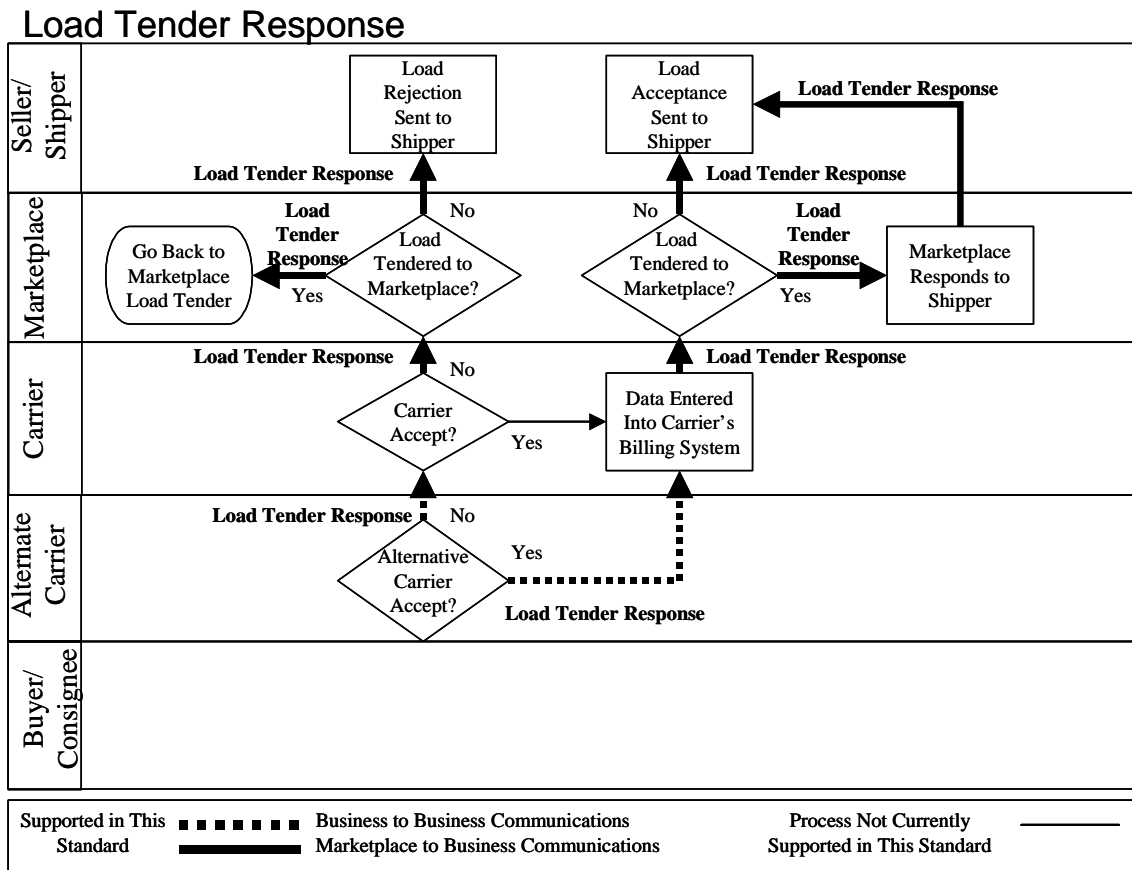


Figure 6.2.9.a depicts the message flow of the Load Tender Response. The Carrier (or alternate Carrier, if used) responds back through the chain, either accepting or rejecting the load using a Load Tender Response message. If rejecting the load, the Seller or Marketplace must re-tender the load to another Carrier. If the Carrier accepts the load, the Seller's system is updated with the name of the Carrier (and alternate Carrier, if applicable).

Scenarios for Load Tender Response

- Approved Carrier responds to Shipper/Seller with an acceptance or rejection of tender.

Required to complete tender and release shipment

- Approved Carrier responds to Marketplace with an acceptance or rejection of tender.

Required to complete tender and release shipment

- Approved Carrier responds to Buyer/Consignee with an acceptance or rejection of tender.

Required to complete tender and release shipment

- Approved alternate Carrier responds to the Primary Carrier with an acceptance or rejection of the tender.

Required to complete tender and release shipment

Once the approved alternate Carrier responds by accepting or rejecting the tender, the Primary Carrier responds to the Shipper/Seller with an acceptance or rejection of the tender.

- Approved alternate Carrier responds to the Primary Carrier with the Marketplace involved.

Required to complete tender and release shipment

The alternate Carrier responds with an acceptance or rejection of the tender. In turn, the Primary Carrier responds to the Marketplace with an acceptance or rejection of the tender and then the Marketplace responds to the Shipper/Seller with an acceptance or rejection of the tender.

- Approved alternate Carrier responds to Primary Carrier with Buyer/Consignee offering the tender.

Required to complete tender and release shipment

The alternate Carrier responds to the Primary Carrier with an acceptance or rejection of the tender and in turn Primary Carrier responds to Buyer/Consignee with an acceptance or rejection of the tender.

- Approved alternate Carrier responds to the Primary Carrier with the Marketplace involved and the Buyer/Consignee originating the tender.

Required to complete tender and release shipment

The alternate Carrier responds to the Primary Carrier with an acceptance or rejection of the tender. In turn, the Primary Carrier responds to the Marketplace with an acceptance or rejection of the tender. Following the acceptance or rejection to the Marketplace, the Marketplace responds to the Buyer/Consignee with an acceptance or rejection of the tender.

[Load Tender Response Example Markup](#)

6.2.9 Shipment Status

The Shipment Status transaction is used to convey Carrier information to the Seller/Shipper and/or Buyer/Consignee. While there are many statuses that can be conveyed to either/both parties, the most common occurs at arrival at origin, en route location, and arrival at destination. The Buyer/Consignee may or may not receive the Shipment Status transaction.

Figure 6.2.9.a

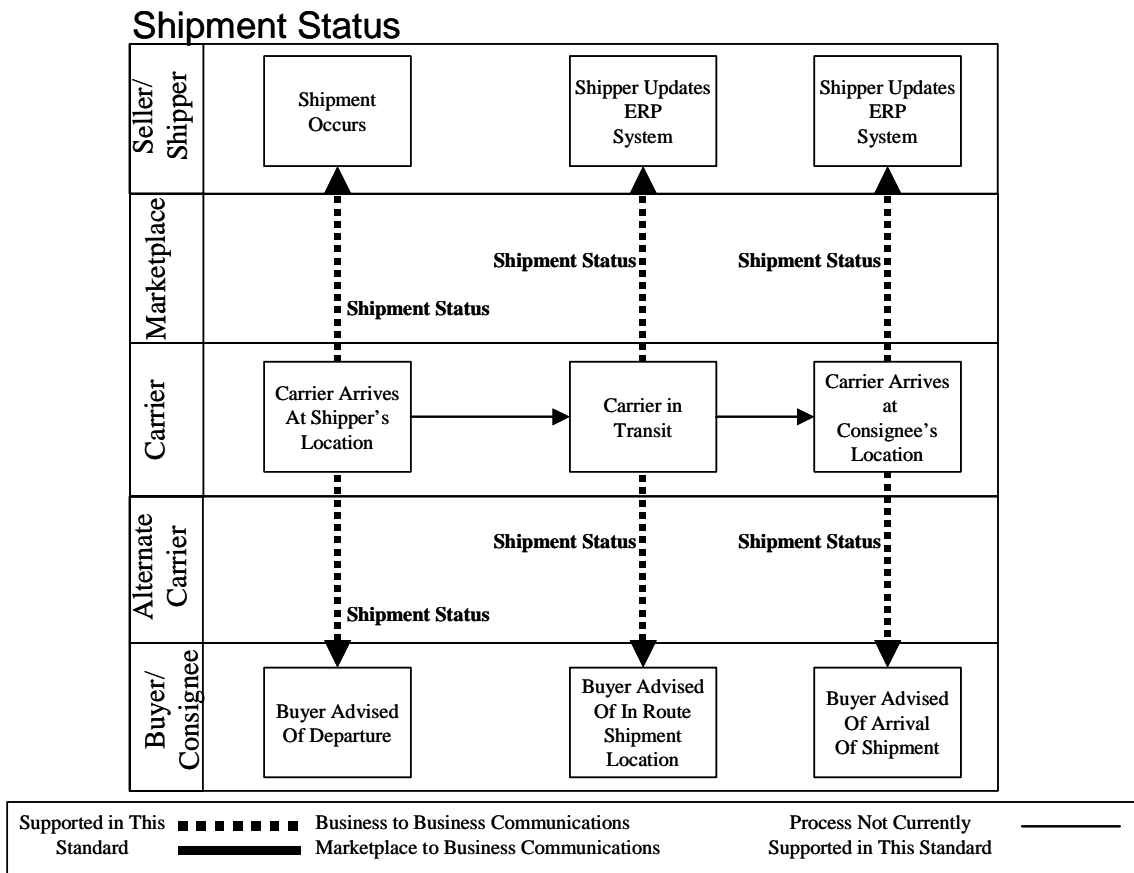


Figure 6.2.9.a depicts the flows of the Shipment Status. After the load has been tendered and accepted, there are a series of events where a Carrier may send a Shipment Status message to the Seller/Shipper (and Buyer/Consignee, if appropriate). Examples of this are arrival at the Shipper's location, locations en route, and arrival at the Consignee's location for motor and rail. Examples of this for Ocean are departure from the dock, arrival at the destination port, and ultimate arrival at the Consignee's location.

Scenarios for Shipment Status

- Shipper/Seller requests the status of shipment from an approved primary Carrier.

Required to determine the location or status of the shipment

A manual process (until a Request Status transaction is developed) requests the whereabouts of a specific shipment. After the request is made, the carrier responds to the requesting party as to the status (location) of the shipment.

- The Buyer/Consignee requests the Status from the Shipper/Seller

Required to determine the location or status of the shipment

The Buyer/Consignee requests from the Shipper/Seller the status of shipment. The Shipper/Seller requests from the Carrier the status of the shipment. The Shipper/Seller informs the Buyer/Consignee the status of shipment.

- Shipper/Seller requests from the Marketplace the status of the shipment.

Required to determine the location or status of the shipment

The Shipper/Seller requests from the Marketplace the status of the shipment. In turn, the Marketplace requests from the approved primary Carrier the status of shipment.

- Buyer/Consignee requests from Marketplace the status of the shipment.

Required to determine the location or status of the shipment

The Buyer/Consignee requests from the Marketplace the status of the shipment. In turn, the Marketplace requests from the approved primary Carrier the status of the shipment.

- Buyer/Consignee requests from an approved primary Carrier the status of shipment.

Required to determine the location or status of the shipment

The Buyer/Consignee requests from an approved primary Carrier the status of the shipment. The Primary Carrier responds to the Buyer/Consignee the status of shipment.

[Shipment Status Example Markup](#)

6.2.10 Freight Bill

The Freight Bill is a transaction whereby the Carrier bills the Seller or Buyer, depending upon the freight terms. Included in the invoice is the charge for the line haul as well as for any accessorial or detention charges. These charges may go directly to the Seller or Buyer, or to a payment agency designated by that party through the instructions contained in the Load Tender Motor, Load Tender Rail, or Load Tender Ocean.

Figure 6.2.10.a

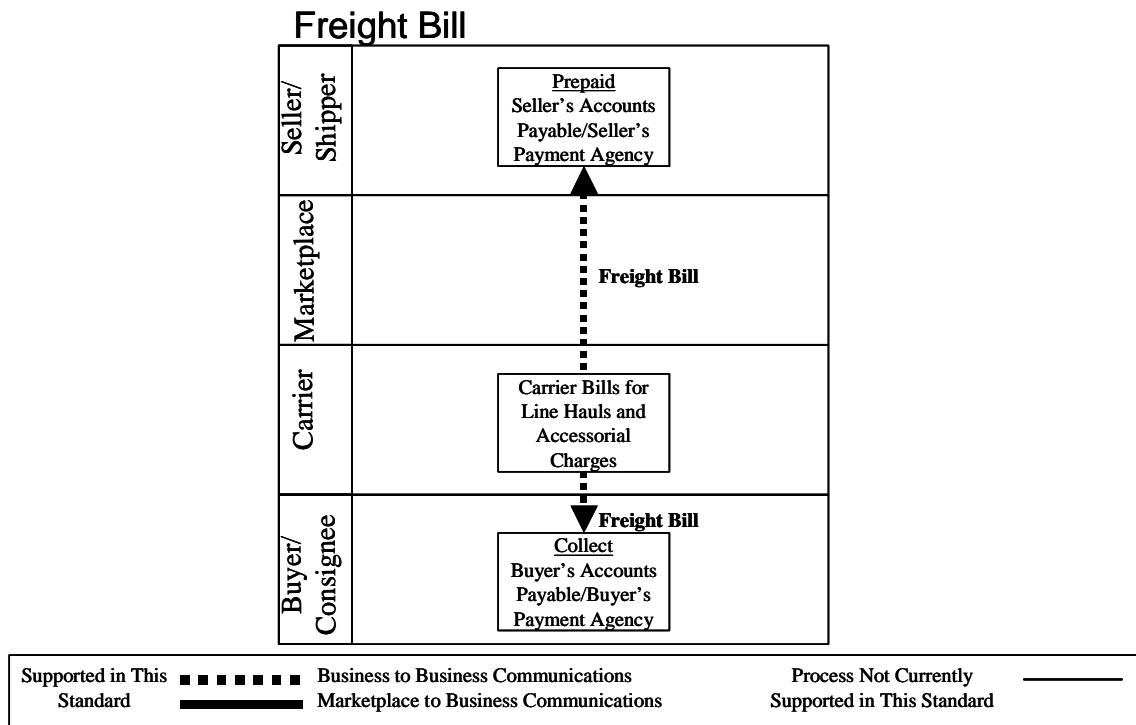


Figure 6.2.10.a depicts the Freight Bill flows. Upon completion of the shipment, the Carrier transmits a Freight Bill message to the liable party for the freight (depending upon the payment terms specified on the LoadTender transactions). This message goes to the Bill-To party, which can be the Seller or Buyer, or an agent of either. Line haul charges and special services charges (e.g., hose charge, detention charge, fuel surcharge) are normally sent within the motor and rail Freight Bill message. Duties, insurance, port charges, and forwarder service charges, as well as ocean freight are contained within the Freight Bill message for Ocean (and Air) exports.

Scenarios for Freight Bill

- Carrier invoices Shipper/Seller when freight terms are prepaid.

Required for Carrier to receive payment

- Carrier invoices the Shipper/Seller and, in turn, the Shipper/Seller invoices the Buyer/Consignee when the terms in freight are prepaid and add.

Required for Carrier to receive payment

- Carrier invoices Marketplace. The Marketplace invoices the Shipper/Seller when the terms are prepaid.

Required for Carrier to receive payment

- Carrier invoices Marketplace and the Marketplace invoices Buyer/Consignee when the Buyer/Consignee freight terms are collect.

Required for Carrier to receive payment

- Carrier invoices Buyer/Consignee when freight terms are collect.

Required for Carrier to receive payment

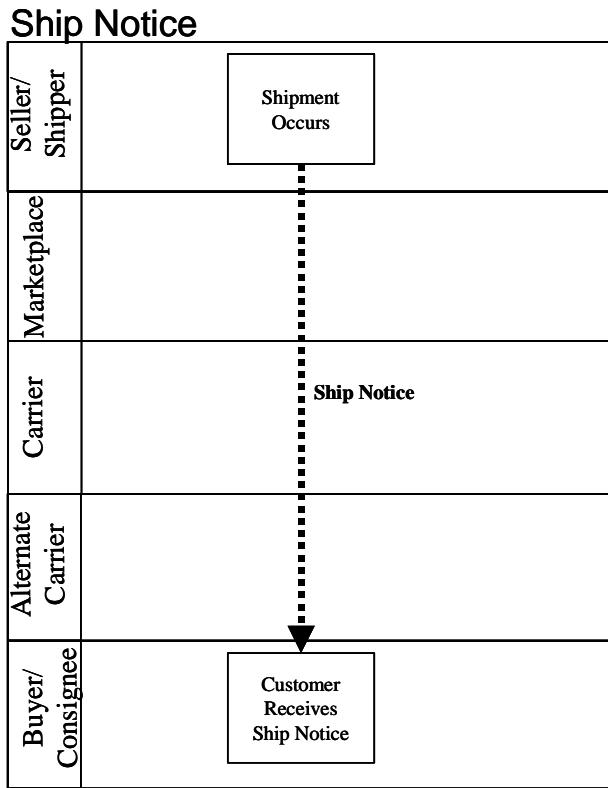
[Freight Bill Example Markup](#)

6.2.11 Ship Notice

The Ship Notice is a transaction from the Seller to the Buyer, but can also be sent to other related parties such as the Consignee. The reason the Seller is responsible for the actual transaction and not the Shipper, has to do with the use of the cumulative total (the total amount of product shipped by this Seller to this customer within the current year (model year for auto industry)). It contains the products, weights, vehicle ID, and shipping marks (bar code serial numbers). Other data may also be required.

The Ship Notice is commonly used to provide the information required to set up a payables liability negating the need for an invoice. The Sellers SID# forms the link to the Seller's account receivable file. This practice is referred to as Evaluated Receipts Settlement (ERS).

Figure 6.2.11.a



Supported in This Standard	■ ■ ■ ■ ■ ■ ■ ■ Business to Business Communications	Process Not Currently Supported in This Standard	_____
	———— Marketplace to Business Communications		

6.2.11 Ship Notice, continued

Figure 6.2.11.a depicts the flows of the Ship Notice. After the Carrier departs the Shipper's location, the Seller generates a Ship Notice to the Buyer/Consignee and other interested parties. This message contains all pertinent information that the Buyer/Consignee needs to appropriately plan for the arrival and recognize it when it arrives. Often bar-coded serial numbers are transmitted when required by the Buyer/Consignee. A cumulative total representing the total quantity shipped during this contract period (either inclusive or exclusive of this shipment) may also be required.

Scenarios for Ship Notice

- Shipper/Seller notifies the Buyer/Consignee when the shipment has left the point of origin.

Required to notify Buyer the specifics of the order in transit

- Shipper/Seller notifies the Marketplace when shipment has left the point of origin.

Required to notify Buyer the specifics of the order in transit

Once the Shipper notifies the Marketplace, the Marketplace notifies the Buyer/Consignee when the shipment has left the point of origin through the Marketplace notification process.

- Freight Forwarder notifies the financial institution when the shipment has left the point of origin.

Required to begin the invoice process of the order

This is one of the triggers to invoice the Buyer for the placed order. This transaction notifies the Buyer of the exact products and quantities that are in transport.

- Freight Forwarder notifies the Shipper/Seller when the shipment has left the point of origin.

Required to notify Seller the specifics of the order in transit

- Freight Forwarder notifies the Buyer/Consignee when shipment has left the point of origin.

Required to notify Buyer the specifics of the order in transit

[Ship Notice Example Markup](#)

6.2.12 Carrier Weights

The CarrierWeight transaction is usually used with a Rail, Motor, or Ocean Carrier. It is used for those instances where the Shipper does not have the actual weight and does not obtain it until the vehicle or vessel leaves the origin and is obtained en route.

Figure 6.2.12.a

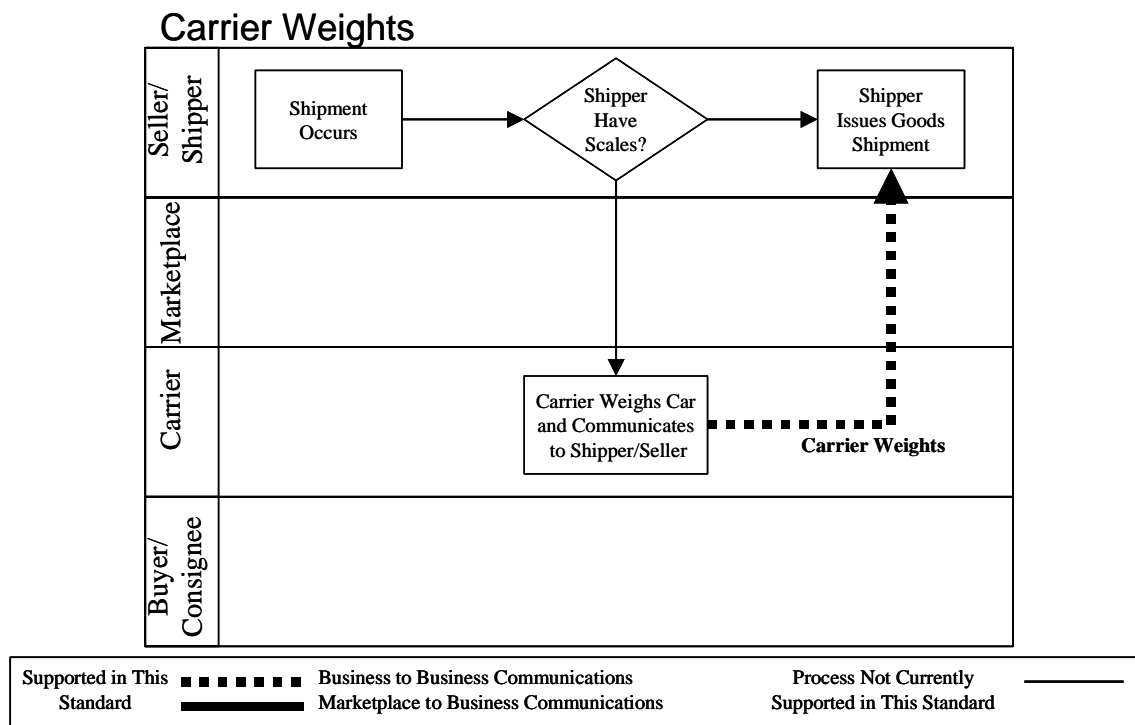


Figure 6.2.11.a depicts the flows of the Carrier Weights Transaction. Often, the official weights are not known prior to the departure of the train. Once the train has pulled the car over a “weigh-in-motion” set of scales, the actual weights are transmitted using the Carrier Weights message. If the scales are located on the Shipper’s property, this message is sent by the Shipper to the railroad, replacing the estimated weights on the Load Tender Rail with these actual weights. It could also be used by the railroad sending these weights back to the Shipper when scaling off site.

Scenarios for Carrier Weights

- Scales are located on site

Required for actual weight loaded on the transport equipment

Carrier weights are established at the plant site when the facility has on site scales. The Shipper/Seller has the document of weights when the Carrier is finished loading.

- Scales are located off site

Required for Carrier to receive payment

Carrier weights are established off site when the originating pickup facility does not have on site scales. The Carrier weighs off site and sends the weights to the Shipper/Seller.

[Carrier Weights Example Markup](#)

6.3 Load Tender—Motor

6.3.1 Release Information

Jan 2001	Expanded Release, v2.0
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6.3.2 Load Tender—Motor Data Model

The following diagrams show the graphical representation of the Load Tender—Motor Data Model:

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

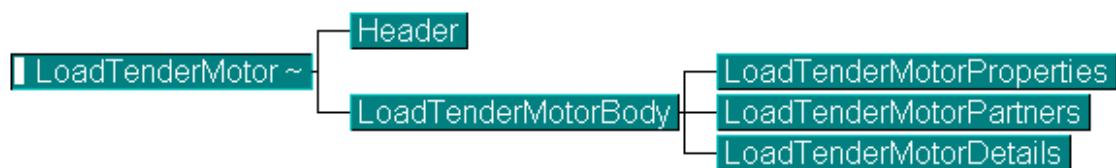


Figure 1: Load Tender Motor structure.

6.3.2 Load Tender—Motor Data Model, continued

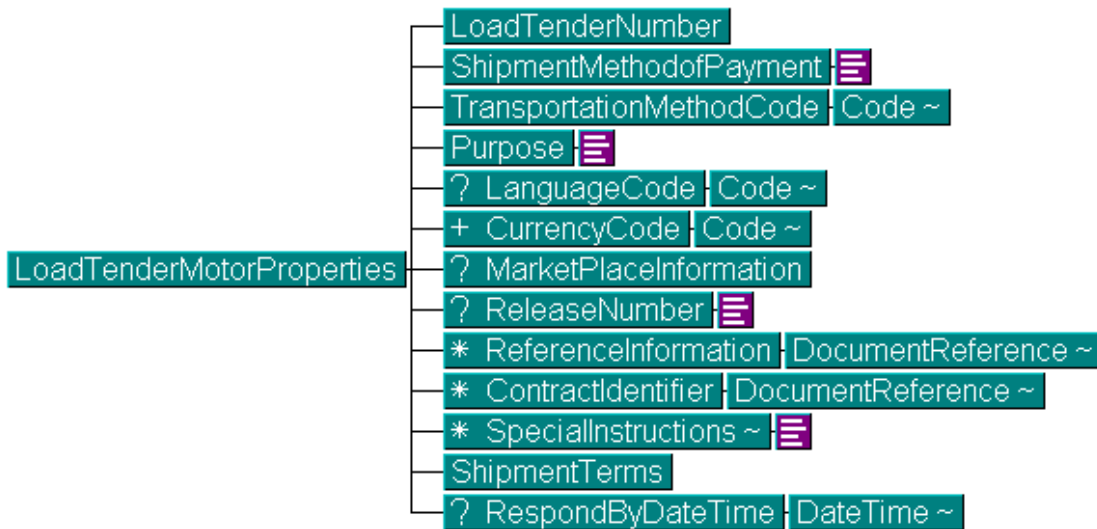


Figure 2: Load Tender MotorProperties.

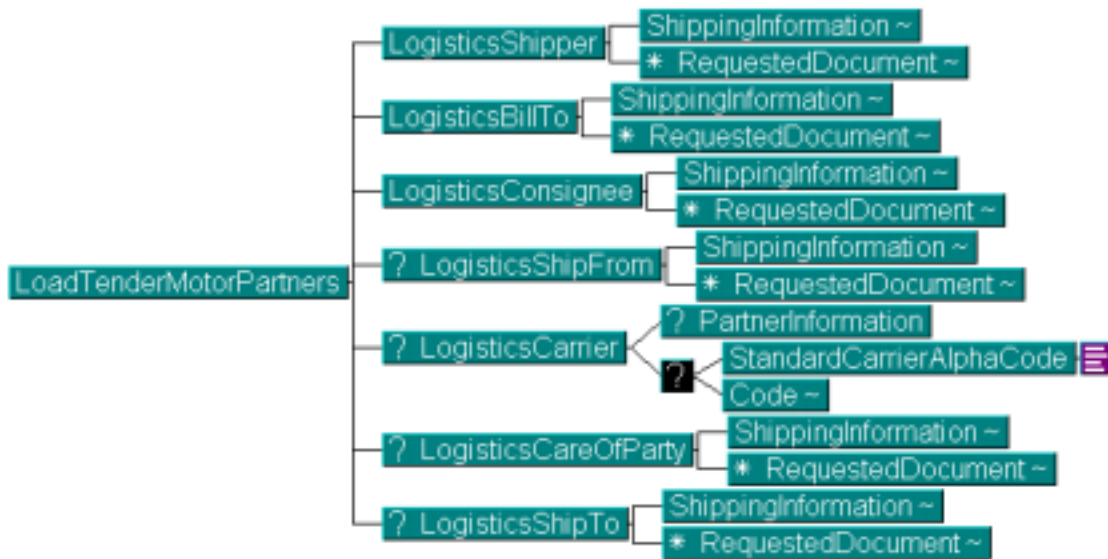


Figure 3: Load Tender MotorPartners identifies the parties shipping, receiving, transporting, and paying for the goods.

6.3.2 Load Tender—Motor Data Model, continued

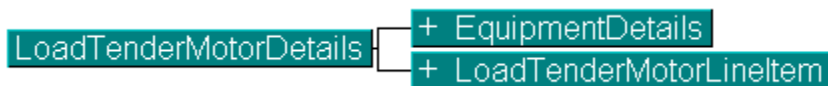


Figure 4: Load Tender MotorDetails convey the shipment specifics.



Figure 5: EquipmentDetails specifies the equipment needed to transport the goods.

6.3.2 Load Tender—Motor Data Model, *continued*

Figure 6: Load Tender MotorLineItem information is used to communicate the details of shipment.

6.3.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Load Tender - Motor business transaction:

Element	Notes
CarrierEquipment	Requested transportation equipment type ASC X12 40
CompartmentId	Code identifying the compartment in a compartmentalized tank conveyance
ControlledTemperature	The temperature at which the lading is to be maintained
EmergencyResponsePlanNumber	The identity number of a specific hazardous emergency response plan that is assigned by the Director General of Canada
EmergencySchedule	Code used to describe emergency procedures for handling the hazardous material - based on UNNA number
EmergencyTemperature	Temperature at which the substance becomes volatile
EPAWasteStreamNumberCode	See Load Tender Rail for comments on Hazardous Goods
FlashpointTemperature	Temperature at which combustion will occur
NetExplosiveQuantity	Net weight of the explosive quantity of the hazardous commodity
NotOtherwiseSpecifiedRequirements	The commodity is subject to the regulatory requirements for Not Otherwise Specified

6.3.4 Example Markup

The following are examples of the Load Tender -- Motor business transaction:

6.3.4.1 Load Tender - Motor

For all the scenarios identified in Section 6.2.5 the message is the same. The only change is in the To and From Section in the Header.

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="-5">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="-5">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>Your State</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="">001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12-3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> </pre>	<p>Header Markup Section</p>

6.3.4.1 Load Tender - Motor, continued

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">88888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="">1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98-7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> <Header> </pre>	
<pre> <Load Tender MotorProperties> <LoadTenderNumber> <DocumentIdentifier>987654321</DocumentIdentifier> <LoadTenderIssuedDateTime> <DateTime TimeZone="-5">20001204T1200</DateTime> </LoadTenderIssuedDateTime> </LoadTenderNumber> <ShipmentMethodofPayment>PP</ShipmentMethodofPayment> <TransportationMethodCode> <Code Domain="ASC X12 91">S</Code> </TransportationMethodCode> <Purpose>Original</Purpose> <LanguageCode> <Code Domain="ISO 639-2/T">EN</Code> </LanguageCode> <CurrencyCode> <Code Domain="ISO 4277">USD</Code> </CurrencyCode> <ReleaseNumber>001</ReleaseNumber> <ReferenceInformation> <DocumentReference ReferenceType="PickUpNumber"> <DocumentIdentifier/> <ReferenceItem>123456</ReferenceItem> </DocumentReference> </pre>	<p>Load Tender Motor Properties is a sub-set of Load Tender Motor Body</p>

6.3.4.1 Load Tender - Motor, continued

Example Markup	Annotation
<pre> </ReferenceInformation> <ContractIdentifier> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier/> <ReferenceItem>CATX9999999</ReferenceItem> </DocumentReference> </ContractIdentifier> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO2000">FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>WILMINGTON, DE</ShipmentTermsLocation> </ShipmentTerms> <RespondByDateTime> <DateTime TimeZone="-5">20001205T1200</DateTime> </RespondByDateTime> </Load Tender MotorProperties> </pre>	
<pre> <Load Tender MotorPartners> <LogisticsShipper> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <TelecomCountryCode/> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>XX</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-8888888</TaxIdentifierNumber> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsShipper> <LogisticsBillTo> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="BillToParty"> <Code Domain="JACH"/> </PartnerIdentifier> <ContactInformation> </pre>	<p>Load Tender Motor Partners is a sub-set of Load Tender Motor Body</p>

6.3.4.1 Load Tender - Motor, continued

Example Markup	Annotation
<pre> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> <LocationCode> <Code Domain="230"/> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="023"/> <Jurisdiction>Michigan</Jurisdiction> <TaxCertificateType> <Code Domain="034"/> </TaxCertificateType> <TaxCertificateNumber>973</TaxCertificateNumber> <TaxBasis>State</TaxBasis> <TaxRate>Standard</TaxRate> </TaxInformation> </PartnerInformation> </ShippingInformation> </LogisticsBillTo> <LogisticsShipFrom> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> </PartnerInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>FL</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-8888888</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> </TaxInformation> </ShippingInformation> </LogisticsShipFrom> </pre>	

6.3.4.1 Load Tender - Motor, continued

Example Markup	Annotation
<pre> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsShipFrom> <LogisticsConsignee> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>ABC Company</PartnerName> <PartnerIdentifier PartnerRole="Consignee"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Michelle Jackson</ContactName> <ContactDescription>Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode/> <AreaCode>999</AreaCode> <PhoneNumber>1234567</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>999 South Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>PA</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-999999</TaxIdentifierNumber> <Jurisdiction>Pennsylvania</Jurisdiction> </TaxInformation> <URL>www.ABCCompany.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsConsignee> <LogisticsCarrier> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>Schneider National</PartnerName> <PartnerIdentifier PartnerRole="Carrier"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Smith</ContactName> <ContactDescription>Dispatch</ContactDescription> <TelephoneNumber> <AreaCode>920</AreaCode> <PhoneNumber>5922000</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>3101 S. Packerland Drive</AddressLine> <CityName>Green Bay</CityName> <StateProvince>WI</StateProvince> <PostalCode>54306-2545</PostalCode> </AddressInformation> </PartnerInformation> </ShippingInformation> </LogisticsCarrier> </pre>	

6.3.4.1 Load Tender - Motor, continued

Example Markup	Annotation
<pre> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State"/> <Jurisdiction>WI</Jurisdiction> </TaxInformation> <URL>www.schneider.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsCarrier> <LogisticsShipTo> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>ABC Company</PartnerName> <PartnerIdentifier PartnerRole="Consignee"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Michelle Jackson</ContactName> <ContactDescription>Manager</ContactDescription> <TelephoneNumber> <AreaCode>999</AreaCode> <PhoneNumber>1234567</PhoneNumber> </TelephoneNumber> </ContactInformation> </PartnerInformation> <AddressInformation> <AddressLine>999 South Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>XX</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-999999</TaxIdentifierNumber> <Jurisdiction>XX</Jurisdiction> </TaxInformation> <URL>www.ABCCompany.com</URL> </ShippingInformation> </LogisticsShipTo> </Load Tender MotorPartners> </pre>	

6.3.4.1 Load Tender - Motor, continued

Example Markup	Annotation
<pre> <EquipmentDetails> <LineNumber>1</LineNumber> <LineItemLineNumber>1</LineItemLineNumber> <EquipmentID> <AssociatedEquipment> <CarrierEquipment>DRYVAN</CarrierEquipment> <Measurement UnitOfMeasureCode="FT">40</Measurement> <EquipmentLoadEmptyStatus LoadIndicatorCode="Loaded"/> </AssociatedEquipment> </EquipmentID> <CarrierEquipment>DRYVAN</CarrierEquipment> <Height> <Measurement UnitOfMeasureCode="FT">12</Measurement> </Height> <Width> <Measurement UnitOfMeasureCode="FT">8</Measurement> </Width> <Length> <Measurement UnitOfMeasureCode="FT">40</Measurement> </Length> <NetWeight> <Measurement UnitOfMeasureCode="LBS">45000</Measurement> </NetWeight> <TareWeight> <Measurement UnitOfMeasureCode="LBS">20000</Measurement> </TareWeight> <GrossWeight> <Measurement UnitOfMeasureCode="LBS">65000</Measurement> </GrossWeight> <SealNumber>123456</SealNumber> <EquipmentLoadEmptyStatus LoadIndicatorCode="Loaded"/> </EquipmentDetails> </pre>	<p>Equipment Details is a sub-set of Load Tender Motor Details</p>
<pre> <Load Tender MotorLineItem> <LineNumber>1</LineNumber> <EquipmentDetailsLineNumber>1</EquipmentDetailsLineNumber> <LadingIdentification LadingIdentificationQualifier="NMFC"> <Code Domain="NMFC">111111</Code> </LadingIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription>ethylenediamide</ProductDescription> <ProductGradeDescription>70% solution</ProductGradeDescription> </ProductIdentification> <PercentActive>49.9986</PercentActive> <TransportTemperature> <Measurement UnitOfMeasureCode="CE">32</Measurement> </TransportTemperature> <ProductQuantity> <Measurement UnitOfMeasureCode="LBS">45000</Measurement> </ProductQuantity> <NumberPackagingUnits>1</NumberPackagingUnits> <NetWeight> <Measurement UnitOfMeasureCode="LBS">45000</Measurement> </NetWeight> <GrossWeight> <Measurement UnitOfMeasureCode="LBS">45100</Measurement> </pre>	<p>Load Tender Motor Line Items is a sub-set of Load Tender Motor Details</p>

6.3.4.1 Load Tender - Motor, continued

Example Markup	Annotation
<pre> </GrossWeight> <CountryOfOrigin> <Code Domain="ISO 3166">US</Code> </CountryOfOrigin> <RequestedDeliveryByDateTime> <DateTime TimeZone="-05">20001206T1400</DateTime> </RequestedDeliveryByDateTime> <RequestedPickupByDateTime> <DateTime TimeZone="-05">20001205T0800</DateTime> </RequestedPickupByDateTime> <ContractIdentifier> <DocumentReference ReferenceType="SalesOrderReference"> <DocumentIdentifier>398475938</DocumentIdentifier> <Referenceltem/> </DocumentReference> </ContractIdentifier> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="">FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>GATX</ShipmentTermsLocation> </ShipmentTerms> <LogisticsShipFrom> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <TelecomCountryCode/> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>XX</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-8888888</TaxIdentifierNumber> <Jurisdiction>XX</Jurisdiction> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsShipFrom> <LogisticsShipTo> <ShippingInformation LocationPointType=""> <PartnerInformation> </pre>	

6.3.4.1 Load Tender - Motor, continued

Example Markup	Annotation
<pre> <PartnerName>ABC Company</PartnerName> <PartnerIdentifier PartnerRole="Consignee"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Michelle Jackson</ContactName> <ContactDescription>Manager</ContactDescription> <TelephoneNumber> <AreaCode>999</AreaCode> <PhoneNumber>1234567</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>999 South Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>XX</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-999999</TaxIdentifierNumber> <Jurisdiction>XX</Jurisdiction> </TaxInformation> <URL>www.ABCCompany.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsShipTo> <HazardousGoods> <HazardousShipment> <LadingIdentification LadingIdentificationQualifier="STCC"> <Code Domain="STCC">4930040</Code> </LadingIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription>ethylenediamide</ProductDescription> </ProductIdentification> <ProductQuantity> <Measurement UnitOfMeasureCode="LBS">45000</Measurement> </ProductQuantity> <PackingGroupCode> <Code Domain="ASC X12 254CODELIST I, II, III">PG II</Code> </PackingGroupCode> <ResidueIndicator>R</ResidueIndicator> </HazardousShipment> <EmergencyResponseContact> <ContactInformation> <ContactName>Jim ChemTrak</ContactName> <ContactDescription>CHEMTRACK</ContactDescription> <TelephoneNumber> <AreaCode>111</AreaCode> <PhoneNumber>2221111</PhoneNumber> </TelephoneNumber> </ContactInformation> </EmergencyResponseContact> </HazardousShipment> </pre>	

6.3.4.1 Load Tender - Motor, continued

Example Markup	Annotation
<pre> <HazardousInformation> <USDomesticShippingName>toxic solids, self heating, n.o.s.</USDomesticShippingName> <OT55Flag>0</OT55Flag> <HazardousZoneCode> <Code Domain="ASC X12 1023">A</Code> </HazardousZoneCode> <NotOtherwiseSpecifiedRequirements NotOtherwiseSpecifiedFlagCode="NOS"/> </HazardousInformation> <HazardousClassification> <HazardousClassPrimary>8</HazardousClassPrimary> <HazardousPlacardNotation>PLACARDED CLASS 8</HazardousPlacardNotation> <HazardousReportableQuantityCode ReportableQuantityQualifier="RQ"> <Code Domain=""/> </HazardousReportableQuantityCode> </HazardousClassification> </HazardousGoods> </Load Tender MotorLineItem> </pre>	

6.4 Load Tender — Rail

6.4.1 Release Information

Jan 2001	Expanded Release, v2.0
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6.4.2 Load Tender – Rail Data Model

The following diagrams show the graphical representation of the Load Tender — Rail Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 1: Load Tender Rail structure.

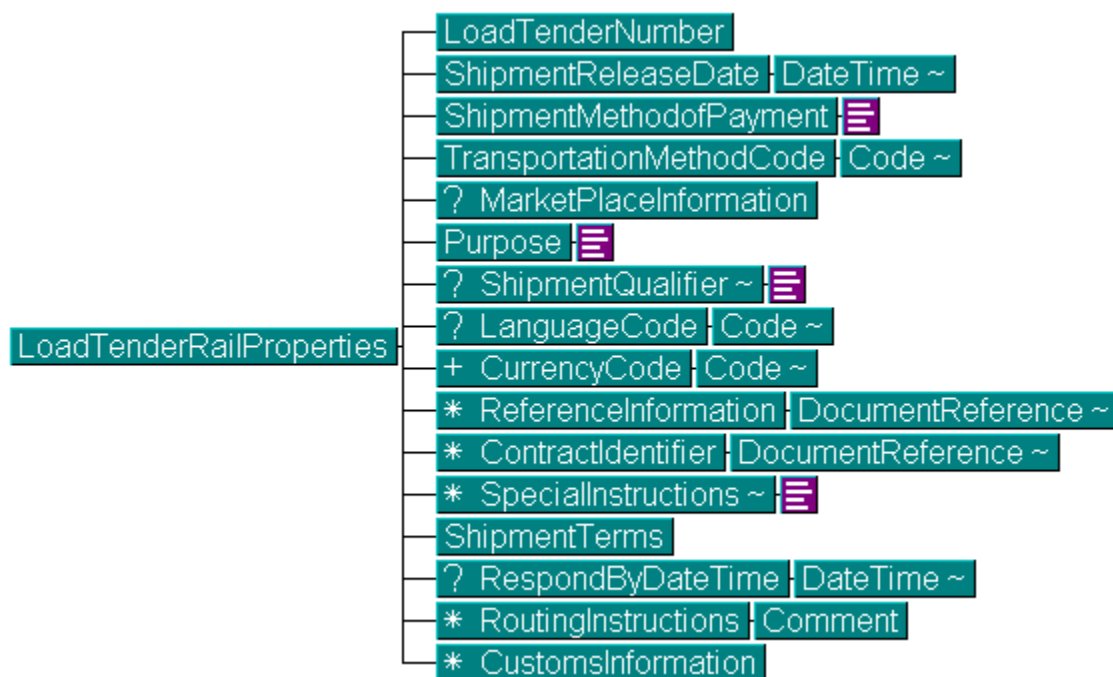
6.4.2 Load Tender – Rail Data Model, *continued*

Figure 2: LoadTenderProperties structure.

6.4.2 Load Tender – Rail Data Model, continued



Figure 3: LoadTenderPartners identifies the parties shipping, receiving, transporting, and paying for the goods.

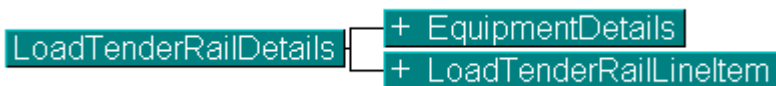


Figure 4: Load Tender RailDetails specifies the equipment needed to transport the goods.

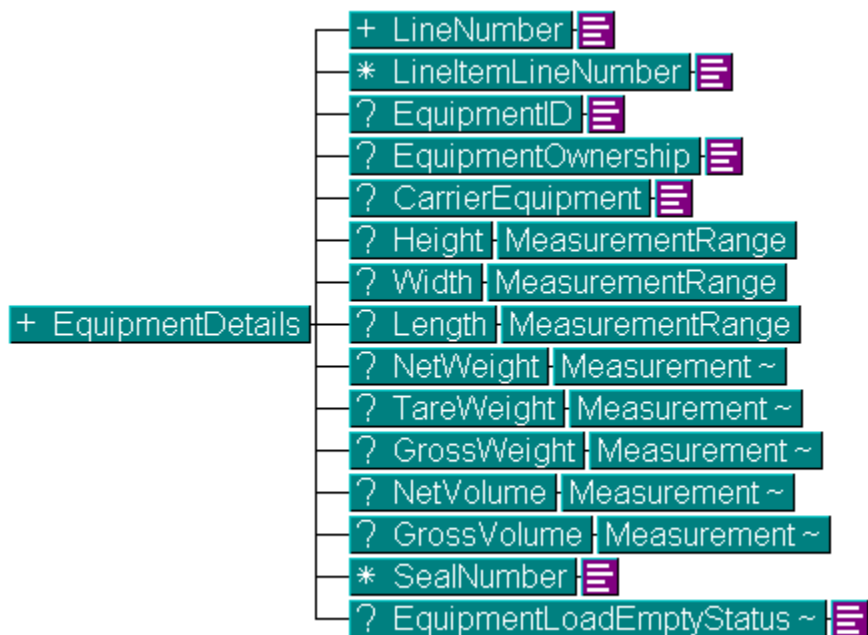
6.4.2 Load Tender – Rail Data Model, *continued*

Figure 5: EquipmentDetails specifies the equipment needed to transport the goods.

6.4.2 Load Tender – Rail Data Model, *continued*

Figure 6: Load Tender RailLineItem information is used to communicate the details of the shipment.

6.4.3 Data Elements and Attributes

The following table lists the data elements and attributes of the Load Tender — Rail business transaction:

Element	Notes
CarrierEquipment	Recommended code values are: CN, TL, RR, TN
Comment	Free form text is admissible but not recommended for Rail messages
EquipmentDetailsLineNumber	Used as an occurrence counter for equipment - this number can be associated with the lading contained in the transportation equipment
EquipmentID	Identification of the equipment unit, containing both the Equipment initial (2 to 4 alpha characters) and the 6- character equipment identification - does not include the check digit
EquipmentOwnership	The mark of the owner of the equipment (2 to 4 character alpha code)
HazardousCanadian	Provides additional Canada Transport Dangerous Goods requirements
HazardousZoneCode	Allowable values are A, B, C and D
LineItemLineNumber	The field within equipment details to refer to the line item which describes the lading or products
LineNumber	Generic line item number If this is found in the Equipment Details section, other sections of the transaction can refer back to it as the EquipmentDetailsLineNumber. If this is found in the LineItem section, other sections of the transaction can refer back to it as the LineItemLineNumber. This assists in tying Products to Equipment and vice versa.
LoadTenderNumber	This the Customer Rail Bill of Lading Number
Load Tender Rail	Rail Bill of Lading message
NotOtherwiseSpecifiedRequirements	Allowable value: N.O.S.
PackingGroupCode	Allowable values: I, II or III
ProductIdentifier	The product Identifier for Rail Transportation will be the 7 character Standard Transportation Commodity Code STCC For Hazardous Materials, the Hazmat STCC and/or the UNNA number will be required in the Hazmat Materials structure.
Purpose	Allowable value is '00'
RadioactiveMaterialActivityQuantity	A real number

6.4.3 Data Elements and Attributes, *continued*

Element	Notes
ReferenceInformation	Used to provide additional reference number associated with the shipment, such as Customer reference numbers, and so on
ResidueIndicator	Allowable values: R and P
RoutingInstructions	Free form description of routing instructions May be conveyed in semi-structured text according to trading partner agreement.
ShipmentMethodofPayment	Allowable values: 11, CC, NC, NR, PP
ShipmentQualifier	Allowable values are contained in the attributes
ShipmentTerms	Use the INCOTerms 2000
ShipmentTermsCode	Use the INCOTerms 2000
ShippingInformation	Partners may be identified by entity or location Normally DUNS is used for the entity, and SPLC or city/state are used for locations.
SpecialInstructions	Free form text is not recommended for Rail messages
TransportationMethodCode	Allowable values are R and X

6.4.4 Example Markup

The following are examples of the Load Tender - Rail business transaction:

6.4.4.1 Load Tender – Rail

For all the scenarios identified in Section 6.2.5 the message is the same. The only change is in the To and From Section in the Header.

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="-5">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="-5">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>FL</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12-3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> </pre>	<p>Header Markup Section</p>

6.4.4.1 Load Tender – Rail, continued

Example Markup	Annotation
<pre> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">88888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">1234</Code> </LocationCode> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98-7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> <Header> </pre>	
<pre> <Load Tender RailProperties> <LoadTenderNumber> <DocumentIdentifier>ACLX1098756-12</DocumentIdentifier> <LoadTenderIssuedDateTime> <DateTime TimeZone="-5">20001215T1200</DateTime> </LoadTenderIssuedDateTime> </LoadTenderNumber> <ShipmentReleaseDate> <DateTime TimeZone="-5">20010101T1200</DateTime> </ShipmentReleaseDate> <ShipmentMethodofPayment>PP</ShipmentMethodofPayment> <TransportationMethodCode> <Code Domain="ASC X12 91">R</Code> </TransportationMethodCode> <Purpose>00</Purpose> <ShipmentQualifier ShipmentTypeCode="IndividualShipment"/> <CurrencyCode> <Code Domain="ISO3166">CAD</Code> </CurrencyCode> <ReferenceInformation> <DocumentReference ReferenceType="PickUpNumber"> <DocumentIdentifier/> <ReferenceItem>123456</ReferenceItem> </DocumentReference> </ReferenceInformation> </ContractIdentifier> </pre>	<p>Load Tender Rail Properties is a subset of Load Tender Rail Body</p>

6.4.4.1 Load Tender – Rail, continued

Example Markup	Annotation
<pre> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier/> <ReferenceItem>CATX9999999</ReferenceItem> </DocumentReference> </ContractIdentifier> <SpecialInstructions InstructionType="ShipperInstructions">FREE FORM TEXT - NOT RECOMMENDED</SpecialInstructions> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO2000">FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>WILMINGTON, DE</ShipmentTermsLocation> </ShipmentTerms> </Load Tender RailProperties> </pre>	
<pre> <EquipmentDetails> <LineNumber>1</LineNumber> <LineItemLineNumber>1</LineItemLineNumber> <EquipmentID>CADX123456</EquipmentID> <EquipmentOwnership/> <CarrierEquipment>TN</CarrierEquipment> <Height> <MeasurementRange> <Measurement UnitOfMeasureCode="IN">102</Measurement> </MeasurementRange> </Height> <Length> <MeasurementRange> <Measurement UnitOfMeasureCode="FT">53</Measurement> </MeasurementRange> </Length> <NetWeight> <Measurement UnitOfMeasureCode="LB">40000</Measurement> </NetWeight> <TareWeight> <Measurement UnitOfMeasureCode="LB">35000</Measurement> </TareWeight> <GrossWeight> <Measurement UnitOfMeasureCode="LB">35000</Measurement> </GrossWeight> <NetVolume> <Measurement UnitOfMeasureCode="CF">10000</Measurement> </NetVolume> <GrossVolume> <Measurement UnitOfMeasureCode="CF">10000</Measurement> </GrossVolume> <SealNumber>ABC123456</SealNumber> <EquipmentLoadEmptyStatus LoadIndicatorCode="Loaded"/> </EquipmentDetails> </pre>	<p>Equipment Details is a subset of Load Tender Rail Details</p>

6.4.4.1 Load Tender – Rail, continued

Example Markup	Annotation
<pre> <Load Tender RailLineItem> <LineNumber>1</LineNumber> <EquipmentDetailsLineNumber>1</EquipmentDetailsLineNumber> <LadingIdentification LadingIdentificationQualifier="STCC"> <Code Domain="STCC">4930040</Code> </LadingIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription>HAZARDOUS MATERIAL - SULFURIC ACID</ProductDescription> </ProductIdentification> <ProductQuantity> <Measurement UnitOfMeasureCode="TK">1</Measurement> </ProductQuantity> <PalletQuantityInformation> <NumberFullPallets>0</NumberFullPallets> <PalletPackageCountQuantity>0</PalletPackageCountQuantity> <LoosePackageCountQuantity>0</LoosePackageCountQuantity> </PalletQuantityInformation> <PercentActive>49.9986</PercentActive> <TransportTemperature> <MeasurementRange> <Measurement UnitOfMeasureCode="FA">80</Measurement> </MeasurementRange> </TransportTemperature> <CountryOfOrigin> <Code Domain="ISO 3166">USA</Code> </CountryOfOrigin> <RequestedDeliveryByDateTime> <DateTime TimeZone="-5">20001230T1000</DateTime> </RequestedDeliveryByDateTime> <RequestedPickupByDateTime> <DateTime TimeZone="-5">20001225T1200</DateTime> </RequestedPickupByDateTime> <ContractIdentifier> <DocumentReference ReferenceType="ContractNumber"> <DocumentIdentifier>CAD123456-09</DocumentIdentifier> </DocumentReference> </ContractIdentifier> <ControlledTemperature> <Measurement UnitOfMeasureCode="FA">80</Measurement> </ControlledTemperature> <HazardousGoods> <HazardousShipment> <LadingIdentification LadingIdentificationQualifier="STCC"> <Code Domain="STCC">4930040</Code> </LadingIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription>SULFURIC ACID</ProductDescription> </ProductIdentification> <ProductQuantity> <Measurement UnitOfMeasureCode="TK">1</Measurement> </ProductQuantity> <CompartmentId/> <PackingGroupCode> <Code Domain="ASC X12 254CODELIST I, II, III">PG II</Code> </PackingGroupCode> </HazardousShipment> </HazardousGoods> </Load Tender RailLineItem> </pre>	<p>Load Tender Rail Line Item is a subset of Load Tender Rail Details</p>

6.4.4.1 Load Tender – Rail, continued

Example Markup	Annotation
<pre> </PackingGroupCode> <ResidueIndicator>R</ResidueIndicator> </HazardousShipment> <HazardousInformation> <USDomesticShippingName>SULFURIC ACID</USDomesticShippingName> <OT55Flag>0</OT55Flag> <HazardousZoneCode> <Code Domain="ASC X12 1023">A</Code> </HazardousZoneCode> </HazardousInformation> <HazardousClassification> <HazardousClassPrimary>8</HazardousClassPrimary> <HazardousPlacardNotation>PLACARDED CLASS 8</HazardousPlacardNotation> <HazardousReportableQuantityCode ReportableQuantityQualifier="RQ"> <Code Domain=""/> </HazardousReportableQuantityCode> </HazardousClassification> <HazardousCanadian> <SpecialCommodityIndicator SpecialCommodityIndicatorCode="S"/> <HazardousNotation>POISON</HazardousNotation> <SubsidiaryRiskIndicator SubsidiaryRiskIndicatorCode="I"/> </HazardousCanadian> </HazardousGoods> </Load Tender RailLineItem> </pre>	

6.5 Load Tender – Ocean

6.5.1 Release Information

Jan 2001	Expanded Release, v2.0
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6.5.2 Load Tender – Ocean Data Model

The following diagrams show the graphical representation of the Load Tender – Ocean Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 1: Load Tender Ocean structure.

6.5.2 Load Tender – Ocean Data Model, continued

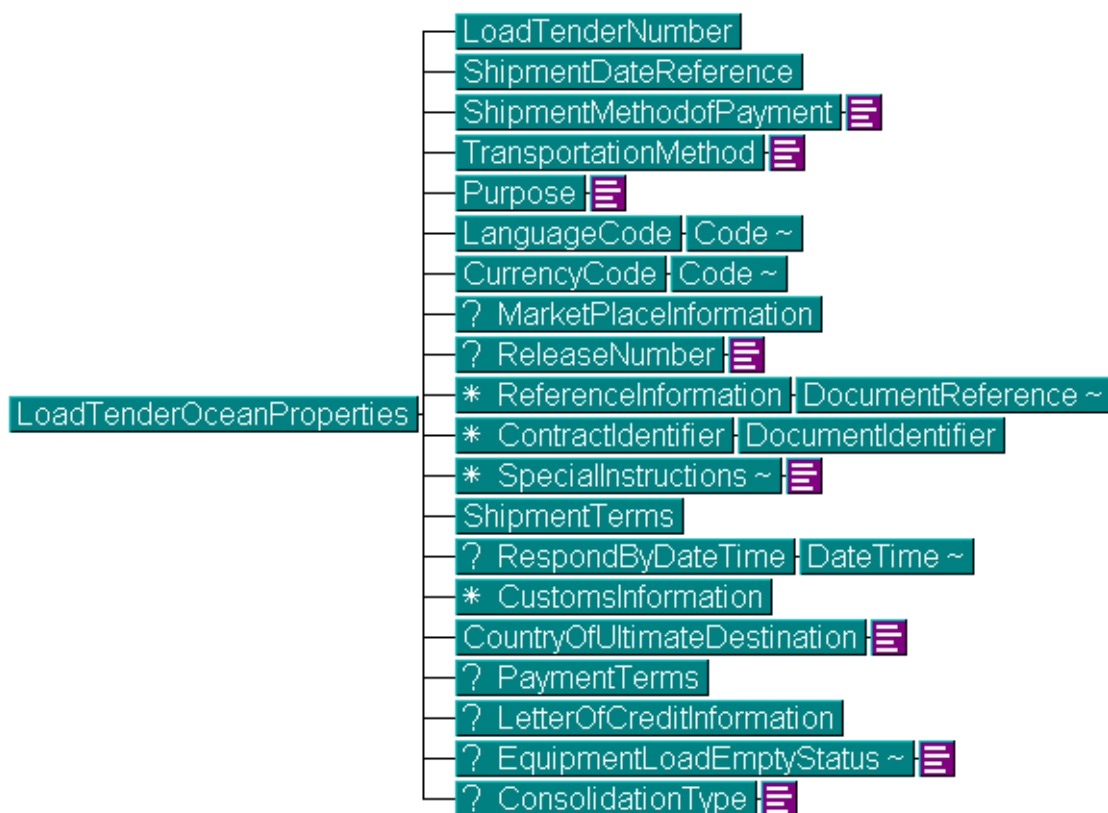


Figure 2: Load Tender OceanProperties Structure.



Figure 3: ShipmentDateReference Structure within Load Tender Ocean Properties.

6.5.2 Load Tender – Ocean Data Model, *continued*



Figure 4: Load Tender OceanPartners Structure.

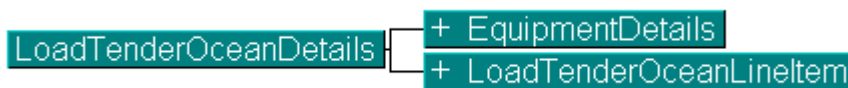


Figure 5: Load Tender OceanDetails structure

6.5.2 Load Tender – Ocean Data Model, continued



Figure 6: EquipmentDetails Structure used to specify equipment requirements.



Figure 7: Load Tender OceanLineItem Structure (part 1)

6.5.2 Load Tender – Ocean Data Model, continued



Figure 8: Load Tender OceanLineItem structure (part 2)



Figure 9: Load Tender OceanSubLineItem Structure.

6.5.3 Data Elements and Attributes

The following table lists the data elements and attributes of the Load Tender -- Ocean business transaction:

Element	Notes
BondedWarehouseRelease	Indication that the shipment has released from a bonded entity to the custody of another entity
BondedWarehouseStatus	To indicate that the warehouse is bonded
CanadianShippingName	The dangerous goods shipping name as defined to comply with Transport Canada regulations
ConsolidationType	The type of allowable consolidation such as, Intra-Company, Inter-Company, No Consolidation, and so on
ControlledTemperature	The temperature at which the lading is to be maintained
DutyDrawback	Indicates eligibility for a refund on duties paid to Customs
ExportImportRequiredDocument	Indicates the type of documents needed for Customs in the importing or exporting countries DATA TYPE Container.
FlashpointTemperature	Temperature at which combustion will occur
HazardousCanadian	Provides additional Canada Transport Dangerous Goods requirements

6.5.4 Example Markup

The following are examples of the Load Tender -- Ocean business transaction:

6.5.4.1 Load Tender – Ocean

For all the scenarios identified in Section 6.2.5 the message is the same. The only change is in the To and From Section in the Header.

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="-5">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDate Time> <DateTime TimeZone="-5">20001205T1200</DateTime> </RequestingDocumentDate Time> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>FL</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12-3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> </pre>	<p>Load Tender OceanHeader</p> <p>You will notice that the content of the Header section is fairly consistent between the different messages.</p>

6.5.4.1 Load Tender – Ocean, continued

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">888888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98-7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> <Header> </pre>	
<pre> <Load Tender OceanBody> <Load Tender OceanProperties> <LoadTenderNumber> <DocumentIdentifier>NTNB02829TWA 20000731MOS</DocumentIdentifier> <LoadTenderIssuedDateTime> <DateTime TimeZone="-05">12/01/2000</DateTime> </LoadTenderIssuedDateTime> </LoadTenderNumber> <ShipmentDateReference> <RequestedShipDateTime> <DateTime TimeZone="-05">20001214</DateTime> </RequestedShipDateTime> <ScheduledShipDateTime> <DateTime TimeZone="-05">20001215</DateTime> </ScheduledShipDateTime> <ScheduledPackDateTime> <DateTime TimeZone="-05">20001214T2330</DateTime> </ScheduledPackDateTime> <RequestedDeliveryByDateTime> <DateTime TimeZone="+00">20010115</DateTime> </RequestedDeliveryByDateTime> </ShipmentDateReference> <ShipmentMethodofPayment>PP</ShipmentMethodofPayment> <TransportationMethod>S</TransportationMethod> </pre>	<p>The Load Tender Ocean Properties structure is the first area within the Load Tender Ocean Body</p>

6.5.4.1 Load Tender – Ocean, continued

Example Markup	Annotation
<pre> <Purpose>01</Purpose> <LanguageCode> <Code Domain="ISO 639">EN</Code> </LanguageCode> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <ReleaseNumber/> <ReferenceInformation> <DocumentReference ReferenceType="CustomerOrderNumber"> <DocumentIdentifier>FA1/45024179</DocumentIdentifier> <Referenceltem/> </DocumentReference> </ReferenceInformation> <ReferenceInformation> <DocumentReference ReferenceType="CustomerMasterRecordNumber"> <DocumentIdentifier>00118468</DocumentIdentifier> </DocumentReference> </ReferenceInformation> <ContractIdentifier> <DocumentIdentifier>654734</DocumentIdentifier> </ContractIdentifier> <SpecialInstructions InstructionType="ShipperInstructions">COMM CODE IS 0902; SCHED B-2934.90.1200; </SpecialInstructions> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO2000">DDU</Code> </ShipmentTermsCode> <ShipmentTermsLocation>ANTWERP</ShipmentTermsLocation> </ShipmentTerms> <CustomsInformation> <CountryOfOrigin>US</CountryOfOrigin> <BondedWarehouseStatus>YES</BondedWarehouseStatus> <FinalDestinationCountryCode>FR</FinalDestinationCountryCode> <BondedWarehouseRelease>NO</BondedWarehouseRelease> <DutyDrawback>NO</DutyDrawback> <USgoodsReturned>NO</USgoodsReturned> <ExportImportRequiredDocument ExportImportDocumentType="ExportLicense"> <RequestedDocument Language="EN" RequestedDocumentType="EXPORT IN LIMITED QUANTITY LICENSE"> <DocumentDeliveryTiming/> <DocumentDeliveryInformation DeliveryMethodQualifier="Email"> <ContactInformation> <ContactName>EXPORTS INTERNATIONAL</ContactName> <EmailAddress>EXPINTL_CST@AOL.COM</EmailAddress> </ContactInformation> </DocumentDeliveryInformation> <NumberOfOriginals>1</NumberOfOriginals> <NumberOfCopies>0</NumberOfCopies> </RequestedDocument> <RequiredDocumentEffectiveDates> <DateTimeRange> <FromDate Time="20000601T0001" TimeZone="-05"></FromDateTime> <ToDate Time="20010531T2399" TimeZone="-05"></ToDateTime> </DateTimeRange> </RequiredDocumentEffectiveDates> </pre>	

6.5.4.1 Load Tender – Ocean, continued

Example Markup	Annotation
<pre> <Comment> <Content>Export License required for controlled US Substance</Content> </Comment> </ExportImportRequiredDocument> <ExportImportRequiredDocument ExportImportDocumentType="ImportLicense"> <RequestedDocument Language="EN" RequestedDocumentType="AGRICULTURAL MINISTRY IMPORT LICENSE"> <DocumentDeliveryTiming/> <DocumentDeliveryInformation DeliveryMethodQualifier="Email"> <ContactInformation> <ContactName>EXPORTS INTERNATIONAL</ContactName> <EmailAddress>EXPINTL_CST@AOL.COM</EmailAddress> </ContactInformation> </DocumentDeliveryInformation> <NumberOfOriginals>1</NumberOfOriginals> <NumberOfCopies>0</NumberOfCopies> </RequestedDocument> <RequiredDocumentEffectiveDates> <DateTimeRange> <FromDate DateTime="20000101T0001" TimeZone="+00"/> <ToDate DateTime="20001231T2399" TimeZone="+00"/> </DateTimeRange> </RequiredDocumentEffectiveDates> <Comment> <Content>Only limited quantities of this chemical allowed for import</Content> </Comment> </ExportImportRequiredDocument> <TransportInBond>YES</TransportInBond> </CustomsInformation> <CountryOfUltimateDestination>FR</CountryOfUltimateDestination> <PaymentTerms> <TermsOfSale>Net30</TermsOfSale> <PaymentTermsBasisDateCode> <Code Domain="">1</Code> </PaymentTermsBasisDateCode> <PaymentTermsBasisDate> <DateTime TimeZone="-5">20001206</DateTime> </PaymentTermsBasisDate> <Discounts> <PercentDiscount>10</PercentDiscount> <DiscountAmount>56000</DiscountAmount> <DaysDue>10</DaysDue> </Discounts> <Penalty>0.10</Penalty> </PaymentTerms> <LetterOfCreditInformation> <DocumentReference ReferenceType="LetterOfCredit"> <DocumentIdentifier>BNP-00.42567</DocumentIdentifier> </DocumentReference> <AdvisingBank> <PartnerInformation> <PartnerName>Banque Nationale de Paris</PartnerName> <PartnerIdentifier PartnerRole="AdvisingBank"> <Code Domain="DUNS">376307864</Code> </PartnerIdentifier> </PartnerInformation> </AdvisingBank> </pre>	

6.5.4.1 Load Tender – Ocean, continued

Example Markup	Annotation
<pre> <ContactName>MDME. CLAIRE DUPRES</ContactName> <EmailAddress>CDUPRES@BNP.COM.FR</EmailAddress> </ContactInformation> <AddressInformation> <AddressLine>RUE DU LA SEIN 215</AddressLine> <CityName>PARIS</CityName> <PostalCountry>FR</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">8544861</Code> </LocationCode> </AddressInformation> </PartnerInformation> </AdvisingBank> <MonetaryAmount>CurrencyCode="USD">500,000.00</MonetaryAmount> <PaymentTerms>NET 30</PaymentTerms> </LetterOfCreditInformation> <EquipmentLoadEmptyStatus LoadIndicatorCode="Loaded"/> <ConsolidationType>NOT ALLOWED</ConsolidationType> </Load Tender OceanProperties> </pre>	
<pre> <Load Tender OceanPartners> <LogisticsShipper> <ShippingInformation LocationPointType="WAREHOUSE"> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>XX</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-8888888</TaxIdentifierNumber> <Jurisdiction>XX</Jurisdiction> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </ShippingInformation> <RequestedDocument Language="EN" RequestedDocumentType="COA"> <DocumentDeliveryTiming>IMMEDIATE</DocumentDeliveryTiming> <DocumentDeliveryInformation DeliveryMethodQualifier="Email"> <ContactInformation> <ContactName>KATHY GOODWIN</ContactName> <EmailAddress>KGOODWIN@SHIPPER.COM</EmailAddress> <TelephoneNumber> </pre>	<p>Load Tender Ocean Partners is the second section within the Load Tender Ocean Body</p>

6.5.4.1 Load Tender – Ocean, continued

Example Markup	Annotation
<pre> <AreaCode>610</AreaCode> <PhoneNumber>555-8340</PhoneNumber> </TelephoneNumber> </ContactInformation> </DocumentDeliveryInformation> <NumberOfOriginals>1</NumberOfOriginals> <NumberOfCopies>0</NumberOfCopies> </RequestedDocument> </LogisticsShipper> <LogisticsBillTo> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="BillToParty"> <Code Domain="JACH"/> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="023"/> <Jurisdiction>MI</Jurisdiction> <TaxCertificateType> <Code Domain="034"/> </TaxCertificateType> <TaxCertificateNumber>973</TaxCertificateNumber> <TaxBasis>State</TaxBasis> <TaxRate>Standard</TaxRate> <EffectiveDates> <DateTimeRange> <FromDate Time="200012150900" TimeZone=""> </FromDate> </DateTimeRange> </EffectiveDates> </TaxInformation> </PartnerInformation> </ShippingInformation> </LogisticsBillTo> <LogisticsConsignee> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>ABC Company</PartnerName> <PartnerIdentifier PartnerRole="Consignee"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> </PartnerInformation> </ShippingInformation> </pre>	

6.5.4.1 Load Tender – Ocean, continued

Example Markup	Annotation
<pre> </PartnerIdentifier> <ContactInformation> <ContactName>Michelle Jackson</ContactName> <ContactDescription>Manager</ContactDescription> <TelephoneNumber> <AreaCode>999</AreaCode> <PhoneNumber>1234567</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>999 South Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>XX</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-999999</TaxIdentifierNumber> <Jurisdiction>XX</Jurisdiction> </TaxInformation> <URL>www.ABCCompany.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsConsignee> <LogisticsForwarder> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>BDP International</PartnerName> <PartnerIdentifier PartnerRole="FreightForwarder"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Smith</ContactName> <ContactDescription>Exporter</ContactDescription> <TelephoneNumber> <AreaCode>920</AreaCode> <PhoneNumber>5922000</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1234 Main Street</AddressLine> <CityName>New Orleans</CityName> <StateProvince>LA</StateProvince> <PostalCode>12345-1234</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State"/> <Jurisdiction>LA</Jurisdiction> </TaxInformation> <URL>www.bdpint.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsForwarder> <LetterOfCreditBank> <PartnerInformation> </pre>	

6.5.4.1 Load Tender – Ocean, continued

Example Markup	Annotation
<pre> <PartnerName>Banc Nationale du Paris</PartnerName> <PartnerIdentifier PartnerRole="Bank"> <Code Domain="DUNS">376307864</Code> </PartnerIdentifier> <ContactInformation> <ContactName>MDME. CLAIRE DUPRES</ContactName> <EmailAddress>CDUPRES@BNP.COM.FR</EmailAddress> </ContactInformation> <AddressInformation> <AddressLine>RUE DU LA CHAT 215</AddressLine> <CityName>PARIS</CityName> <PostalCountry>FR</PostalCountry> <LocationCode> <Code Domain="SHIPPER SPECIFIC">8544861</Code> </LocationCode> </AddressInformation> </ContactInformation> </PartnerInformation> </LetterOfCreditBank> <RequestedPortOfExit> <LocationCode> <Code Domain="IMO">BALT</Code> </LocationCode> </RequestedPortOfExit> <RequestedPortOfDischarge> <LocationCode> <Code Domain="IMO">ANTAP</Code> </LocationCode> </RequestedPortOfDischarge> </Load Tender OceanPartners> </pre>	
<pre> <Load Tender OceanDetails> <EquipmentDetails> <LineNumber>1</LineNumber> <LineItemLineNumber>10</LineItemLineNumber> <EquipmentID> <AssociatedEquipment> <CarrierEquipment> <MeasurementRange> <MinimumMeasurement> UnitOfMeasureCode="FT">40</MinimumMeasurement> <Measurement UnitOfMeasureCode="DRYVAN"/> </MeasurementRange> </CarrierEquipment> <MeasurementRange> <Measurement UnitOfMeasureCode="UNITS">5</Measurement> </MeasurementRange> <EquipmentLoadEmptyStatus LoadIndicatorCode="Loaded"/> </AssociatedEquipment> </EquipmentID> <EquipmentOwnership> <Code Domain="SCAC">SLND</Code> </EquipmentOwnership> <EquipmentLoadEmptyStatus LoadIndicatorCode="Loaded"/> </EquipmentDetails> </Load Tender OceanLineItem> <LineNumber>10</LineNumber> </pre>	<p>Load Tender Ocean Details</p> <p>At this point in the tender process, the specific equipment identification is not known, however the shipper does know that they will be needing 5 40-Foot Dryvans to ship this quantity of product</p>

6.5.4.1 Load Tender – Ocean, continued

Example Markup	Annotation
<pre> <EquipmentDetailsLineNumber>1</EquipmentDetailsLineNumber> <LadingIdentification LadingIdentificationQualifier="UN-NA"> <Code Domain="UN-NA">UN2365</Code> </LadingIdentification> <ProductIdentification> <ProductIdentifier Agency="AssignedByManufacturer">D10390109</ProductIdentifier> <ProductDescription>FAMOXATE TECHNICAL; SUPER SACK - VARIABLE WEIGHT</ProductDescription> </ProductIdentification> <PercentActive>98%</PercentActive> <Comment> <Content>EXPORTCOMMODITYCODE=0902</Content> </Comment> <Comment> <Content>SBU=K3</Content> </Comment> <Comment> <Content>PRODUCTORDEREDCODE=FAMOTE</Content> </Comment> <Comment> <Content>COSTCODE=937507X5NTNR30</Content> </Comment> <ProductQuantity> <Measurement UnitOfMeasureCode="KG">20,000</Measurement> </ProductQuantity> <PalletQuantityInformation> <NumberFullPallets>20</NumberFullPallets> <PalletPackageCountQuantity>20</PalletPackageCountQuantity> <LoosePackageCountQuantity>0</LoosePackageCountQuantity> </PalletQuantityInformation> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="AssignedByManufacturer">D10390109</ProductIdentifier> </ProductIdentification> <PackagingQuantity>400</PackagingQuantity> <PackagingType>BG</PackagingType> <PackagingWeight> <Measurement UnitOfMeasureCode="KG">50</Measurement> </PackagingWeight> <PackagingLabel>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,N.O.S.(FAMOXADONE),(9,UN 3077, PG III ;MARINE POLLUTANT(FAMOXADONE 98%); 50KG</PackagingLabel> <SpecialInstructions InstructionType="ShipperInstructions"/> </PackagingInformation> <GrossVolume> <Measurement UnitOfMeasureCode="CO">175</Measurement> </GrossVolume> <NetVolume> <Measurement UnitOfMeasureCode="CO">162</Measurement> </NetVolume> <GrossWeight> <Measurement UnitOfMeasureCode="KG">201,500</Measurement> </GrossWeight> <NetWeight> <Measurement UnitOfMeasureCode="KG">200,000</Measurement> </pre>	<p>Line numbers will not necessarily begin at one and increment by one. Additionally if a line item is deleted from within a multi-line tender the succeeding line numbers will not be recalculated.</p>

6.5.4.1 Load Tender – Ocean, continued

Example Markup	Annotation
<pre> </NetWeight> <LineItemTotal/> <Label>PRODUCT(S) ON THIS ORDER SHOULD BE LABELED AS FOLLOWS:PRODUCT:FAMOXATE TECH(JE 874) CONFIGURATION CODE A-00261237 APPROPRIATE LABELING AND LABELING SUPPLIES MUST BE OBTAINED FROM LABEL SPECIALIST GEORGE JOHNSON.</Label> <CustomsInformation> <CountryOfOrigin>US</CountryOfOrigin> <BondedWarehouseStatus>NO</BondedWarehouseStatus> <FinalDestinationCountryCode>FR</FinalDestinationCountryCode> <BondedWarehouseRelease>NO</BondedWarehouseRelease> <DutyDrawback>NO</DutyDrawback> <USgoodsReturned>NO</USgoodsReturned> <TransportInBond>IN-BOND</TransportInBond> </CustomsInformation> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO2000">DDU</Code> </ShipmentTermsCode> <ShipmentTermsLocation>ANTWERP</ShipmentTermsLocation> </ShipmentTerms> <HazardousGoods> <HazardousShipment> <UnitedNationsNorthAmericald>UN2365</UnitedNationsNorthAmericald> <ProductQuantity> <Measurement UnitOfMeasureCode="KG">20,000</Measurement> </ProductQuantity> <EmergencyResponseContact> <ContactInformation> <ContactName>CHEMTRAK</ContactName> <ContactDescription>INTERNATIONAL HAZMAT COORDINATOR</ContactDescription> <TelephoneNumber> <AreaCode>800</AreaCode> <PhoneNumber>234-5678</PhoneNumber> </TelephoneNumber> </ContactInformation> </EmergencyResponseContact> </HazardousShipment> <HazardousInformation> <InternationalShippingName> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,N.O.S.(FAMOXADONE),(9,UN 3077, PG III ;MARINE POLLUTANT(FAMOXADONE 98%); 50KG</InternationalShippingName> <NotOtherwiseSpecifiedRequirements NotOtherwiseSpecifiedFlagCode="NOS"/> <EmergencyScheduleCode> <Code Domain="UN-NA">3077</Code> </EmergencyScheduleCode> </HazardousInformation> </HazardousGoods> </Load Tender OceanLineItem> </Load Tender OceanDetails> </pre>	<p>Although each of the Shipping Names indicates that zero or many may appear, AT LEAST one must be provided as part of the HarzardousInf ormation structure.</p>

6.6 Load Tender Response

6.6.1 Release Information

Jan 2001	Expanded Release, v2.0
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6.6.2 Load Tender Response Data Model

The following diagrams show the graphical representation of the Load Tender Response Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 1: This is the global structure of the Load Tender Response message.

6.6.2 Load Tender Response Data Model, continued

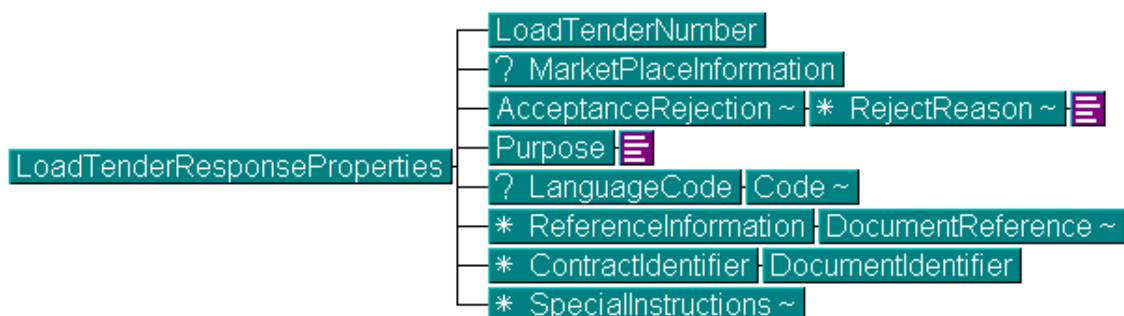


Figure 2: Load Tender ResponseProperties structure

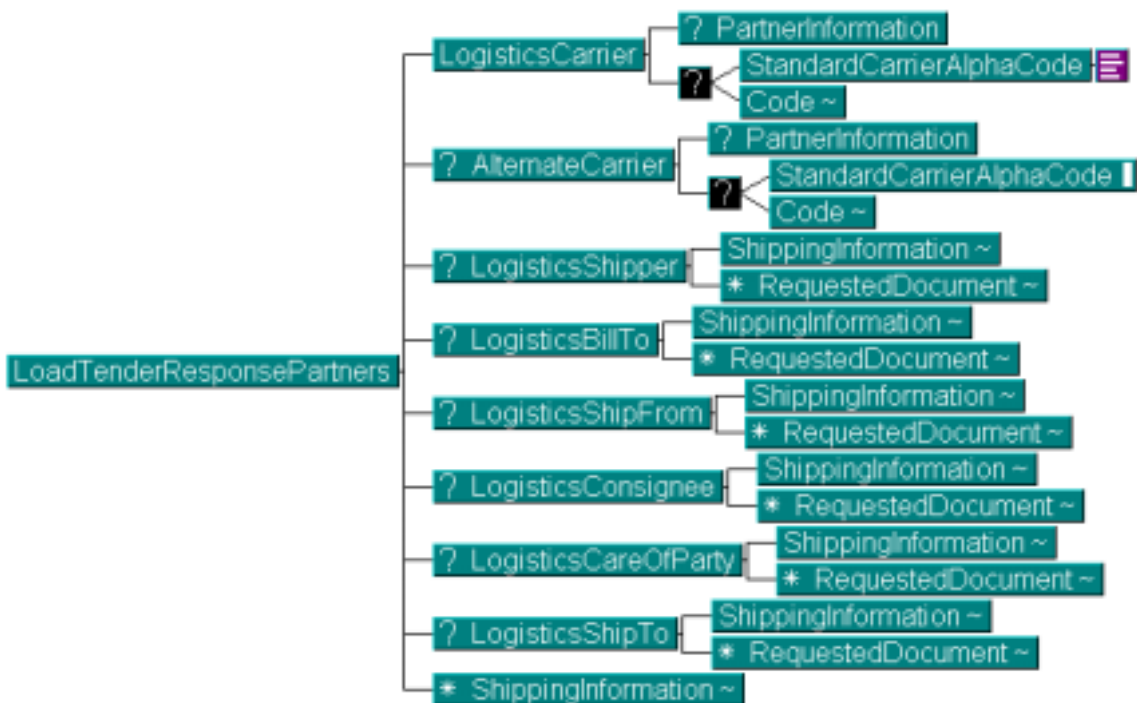


Figure 3: Load Tender ResponsePartners structure

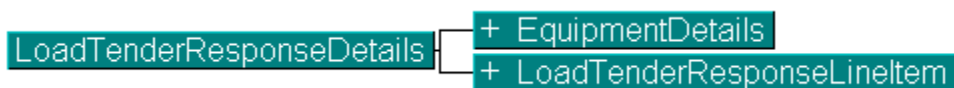


Figure 4: This shows the structure of the Load Tender ResponseDetails

6.6.2 Load Tender Response Data Model, continued



Figure 5: This shows the structure of the Equipment Detail used to specify the equipment requirements.



Figure 6: Load Tender ResponseLineItem (part 1)

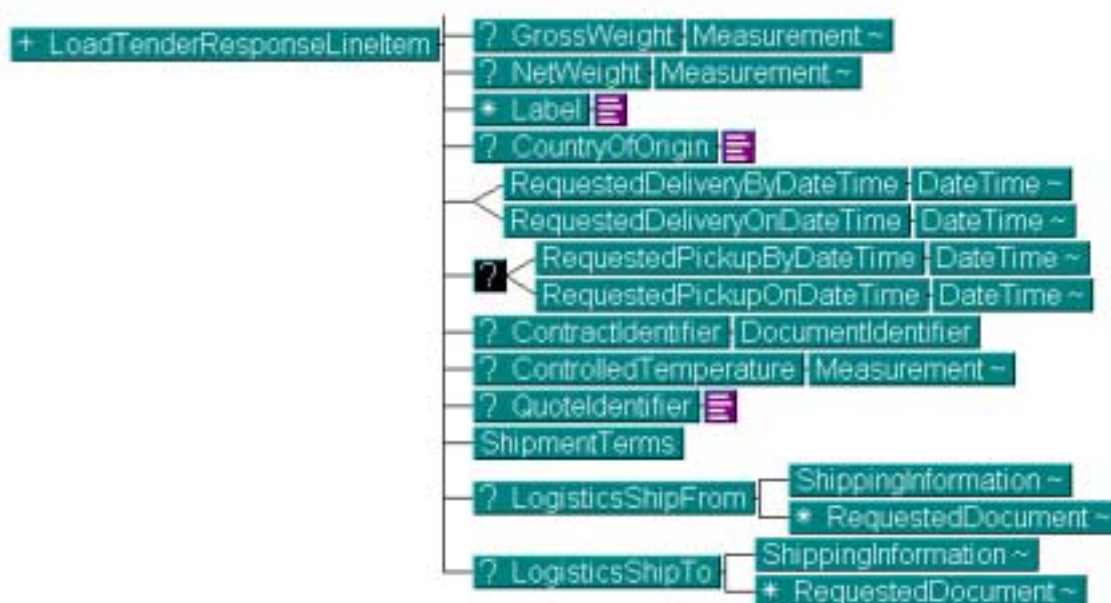
6.6.2 Load Tender Response Data Model, *continued*

Figure 7: Load Tender ResponseLineItem (part 2)

6.6.3 Data Elements and Attributes

The following table lists the data elements and attributes of the Load Tender Response business transaction:

Element	Notes
AlternateCarrier	The carrier actually carrying the load when transportation is subcontracted
CarrierEquipment	Requested transportation equipment type - ASC X12 40
ControlledTemperature	The temperature at which the lading is to be maintained
DocumentReference	Link to some information outside of this transaction
EquipmentDetailsLineNumber	Used to link Equipment Details to LineItem details
LadingIdentification	Unique code identifying the material being shipped
LineItemLineNumber	Used to link LineItemLine Number to EquipmentDetailLineNumber
LoadTenderNumber	Number assigned to the load tender by sending party
SpecialInstructions	Free-form textual description of requirements
StandardCarrierAlphaCode	Two to four alphanumeric code to identify the transport carrier

6.6.4 Example Markup

The following are examples of the Load Tender Response business transaction:

6.6.4.1 Load Tender Response

For all the scenarios identified in Section 6.2.8 the message is the same. The only change is in the To and From Section in the Header.

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="-5">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDate Time> <DateTime TimeZone="-5">20001205T1200</DateTime> </RequestingDocumentDate Time> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>FL</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12-3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> </pre>	<p>Header Markup Section</p>

6.6.4.1 Load Tender Response, continued

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">88888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98-7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> <Header> </pre>	
<pre> <Load Tender ResponseProperties> <LoadTenderNumber> <DocumentIdentifier>XY66666</DocumentIdentifier> <LoadTenderIssuedDateTime> <DateTime TimeZone="-05:00">20001125</DateTime> </LoadTenderIssuedDateTime> </LoadTenderNumber> <AcceptanceRejection AcceptanceOrRejectionCode="AcceptedWithChange"> </AcceptanceRejection> <Purpose>Original</Purpose> <LanguageCode> <Code Domain="ISO639">EN</Code> </LanguageCode> <ReferenceInformation> <DocumentReference ReferenceType="CustomerOrderNumber"> <DocumentIdentifier>CUST#1234</DocumentIdentifier> <ReferenceItem>3</ReferenceItem> </DocumentReference> </ReferenceInformation> <ReferenceInformation> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>CBA8888</DocumentIdentifier> </DocumentReference> </ReferenceInformation> </pre>	<p>Load Tender ResponseProperties is a part of the Load Tender ResponseBody</p>

6.6.4.1 Load Tender Response, continued

Example Markup	Annotation
<pre> <ContractIdentifier> <DocumentIdentifier>JKL22222</DocumentIdentifier> </ContractIdentifier> <SpecialInstructions InstructionType="DriverInstructions">Please call consignee before departure</SpecialInstructions> </Load Tender ResponseProperties> </pre>	
<pre> <Load Tender ResponsePartners> <LogisticsCarrier> <PartnerInformation> <PartnerName>Schneider National</PartnerName> <PartnerIdentifier PartnerRole="Carrier"> <Code Domain="DUNS">123456789</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Smith</ContactName> <ContactDescription>Dispatch</ContactDescription> <TelephoneNumber> <AreaCode>920</AreaCode> <PhoneNumber>5922000</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>3101 S. Packerland Drive</AddressLine> <CityName>Green Bay</CityName> <StateProvince>WI</StateProvince> <PostalCode>54306-2545</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State"/> <Jurisdiction>WI</Jurisdiction> </TaxInformation> <URL>www.schneider.com</URL> </PartnerInformation> <StandardCarrierAlphaCode>RDWY</StandardCarrierAlphaCode> </LogisticsCarrier> <LogisticsShipper> <ShippingInformation LocationPointType=""> <LocationCode> <Code Domain="LOCODE">MOU</Code> </LocationCode> </ShippingInformation> </LogisticsShipper> <LogisticsConsignee> <ShippingInformation LocationPointType=""> <LocationCode> <Code Domain="LOCODE">ILG</Code> </LocationCode> </ShippingInformation> </LogisticsConsignee> </Load Tender ResponsePartners> </pre>	<p>Load Tender Response Partners is a subset of Load Tender Response Body</p>

6.6.4.1 Load Tender Response, continued

Example Markup	Annotation
<pre> <Load Tender ResponseDetails> <EquipmentDetails> <LineNumber>1</LineNumber> <LineItemLineNumber>2</LineItemLineNumber> <Length> <MeasurementRange> <MaximumMeasurement UnitOfMeasureCode="FT">24</MaximumMeasurement> </MeasurementRange> </Length> <TareWeight> <Measurement UnitOfMeasureCode="KG">10000</Measurement> </TareWeight> <SealNumber>ABC12345</SealNumber> <EquipmentLoadEmptyStatus LoadIndicatorCode="Loaded"/> </EquipmentDetails> <Load Tender ResponseLineItem> <LineNumber>1</LineNumber> <ProductIdentification> <ProductIdentifier Agency="AssignedByManufacturer">58766666</ProductIdentifier> <ProductDescription>Nitric Acid C 69.3 % 250 Kg</ProductDescription> </ProductIdentification> <PercentActive>69.3</PercentActive> <TransportTemperature> <MeasurementRange> <Measurement UnitOfMeasureCode="FA">60</Measurement> </MeasurementRange> </TransportTemperature> <ProductQuantity> <Measurement UnitOfMeasureCode="KG">22000</Measurement> </ProductQuantity> <PalletQuantityInformation> <LoosePackageCountQuantity>88</LoosePackageCountQuantity> </PalletQuantityInformation> <GrossWeight> <Measurement UnitOfMeasureCode="KG">24250</Measurement> </GrossWeight> <RequestedDeliveryByDateTime> <DateTime TimeZone="-05:00">20001220T0600</DateTime> </RequestedDeliveryByDateTime> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCOTERMS">FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>Wilmington, DE</ShipmentTermsLocation> </ShipmentTerms> </Load Tender ResponseLineItem> <Load Tender ResponseLineItem> <LineNumber>2</LineNumber> <ProductIdentification> <ProductIdentifier Agency="AssignedByManufacturer">58766666</ProductIdentifier> <ProductDescription>Ammonia 6.0 25Kg</ProductDescription> </ProductIdentification> <TransportTemperature> <MeasurementRange> </pre>	<p>Load Tender Response Details is a subset of Load Tender Response Body</p>

6.6.4.1 Load Tender Response, continued

Example Markup	Annotation
<pre> <Measurement UnitOfMeasureCode="FA">65</Measurement> </MeasurementRange> </TransportTemperature> <ProductQuantity> <Measurement UnitOfMeasureCode="KG">3500</Measurement> </ProductQuantity> <PalletQuantityInformation> <NumberFullPallets>5</NumberFullPallets> </PalletQuantityInformation> <GrossWeight> <Measurement UnitOfMeasureCode="KG">3840</Measurement> </GrossWeight> <RequestedDeliveryByDateTime> <DateTime TimeZone="-05:00">20001220T0600</DateTime> </RequestedDeliveryByDateTime> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCOTERMS">FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>Wilmington, DE</ShipmentTermsLocation> </ShipmentTerms> </Load Tender ResponseLineItem> </Load Tender ResponseDetails> </pre>	

6.7 Ship Notice

6.7.1 Release Information

Jan 2001	Expanded Release, v2.0
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6.7.2 Ship Notice Data Model

The following diagrams show the graphical representation of the Ship Notice Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

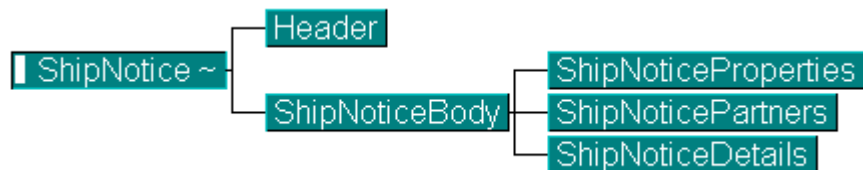


Figure 1: The overall structure of the Ship Notice.

6.7.2 Ship Notice Data Model, continued

Figure 2: This shows the properties of the Ship Notice.

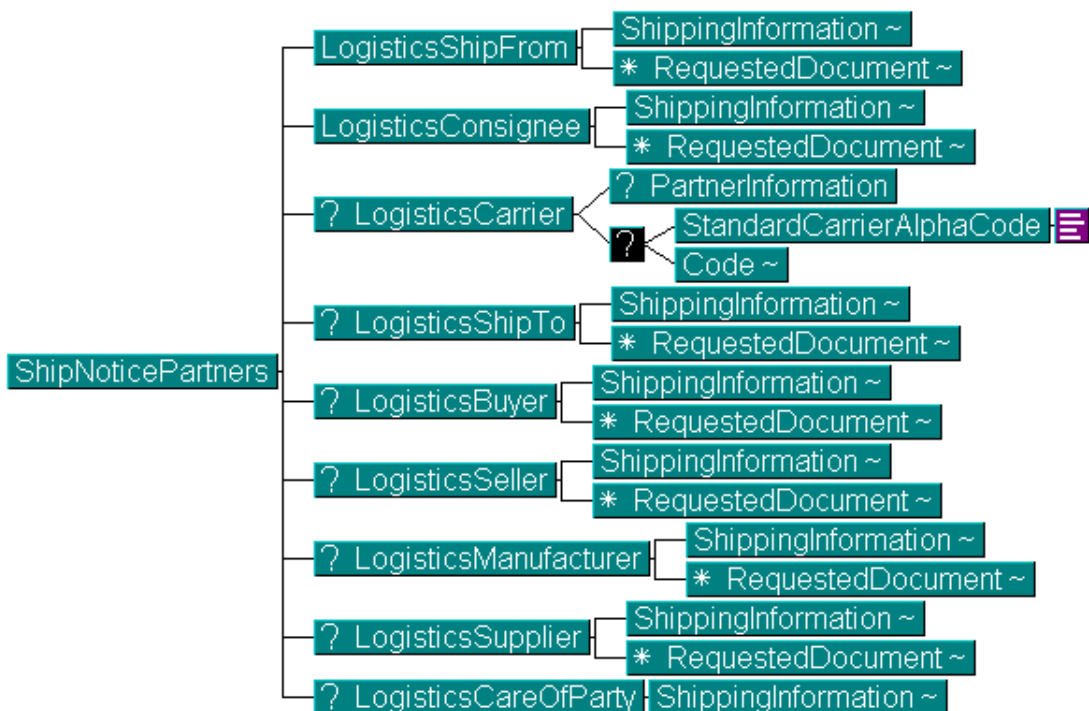
6.7.2 Ship Notice Data Model, *continued*

Figure 3: This shows the Partners for the Ship Notice.

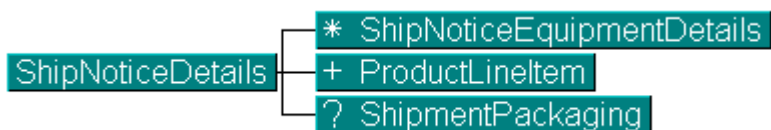


Figure 4: This shows the Ship NoticeDetails within the Ship NoticeBody.

6.7.2 Ship Notice Data Model, *continued*

Figure 5: This shows the Ship NoticeEquipmentDetails within the Ship NoticeDetails.

6.7.2 Ship Notice Data Model, continued

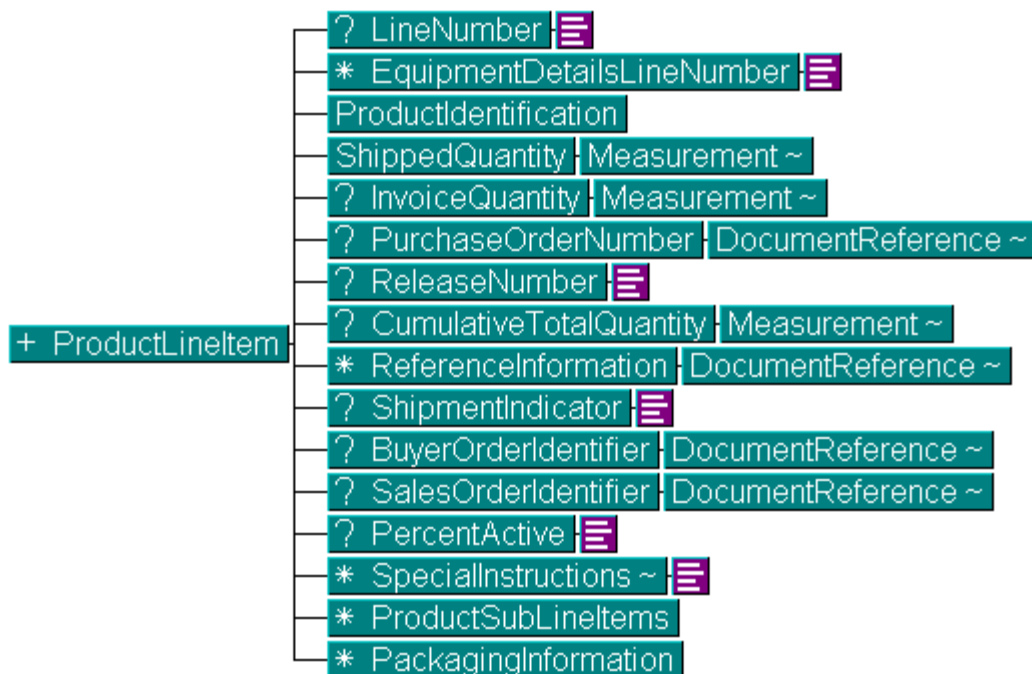


Figure 6: ProductLineItem structure

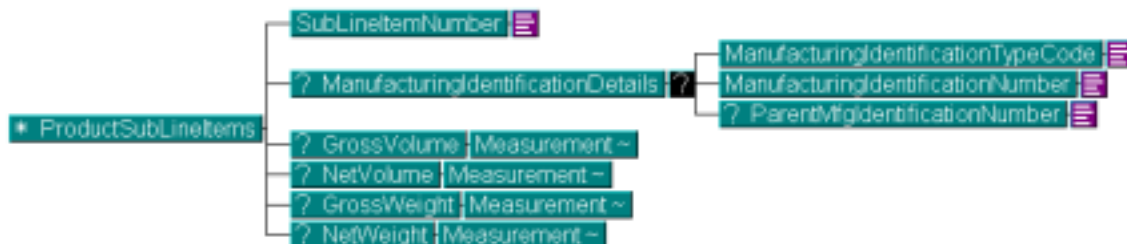


Figure 7: ProductSubLineItems structure

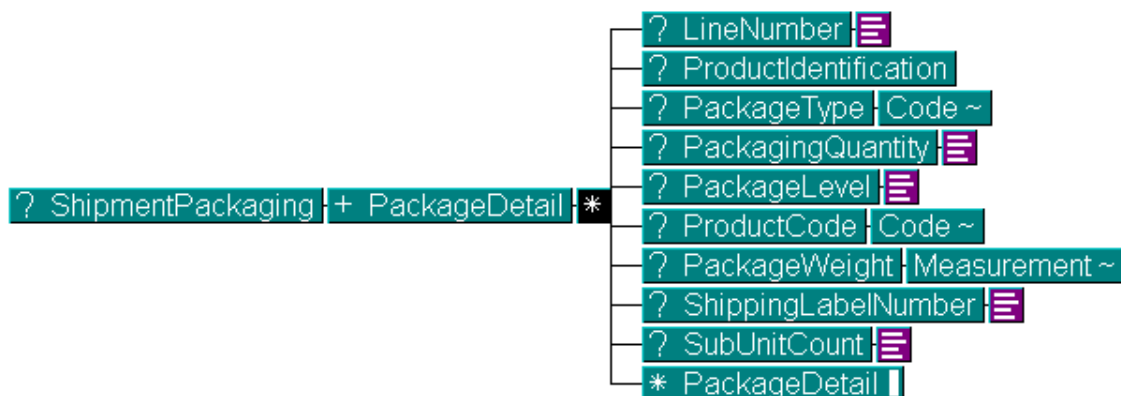
6.7.2 Ship Notice Data Model, continued

Figure 7: This shows the ShipmentPackaging.

6.7.3 Data Elements and Attributes

The following table lists the data elements and attributes of the Ship Notice business transaction:

Element	Notes
CommunicationMethodType = x (attribute)	Allowable Values = StationCode, Telex, PrinterId
AssociatedEquipment	Additional equipment required for the pick-up and/or delivery of this shipment
BuyerOrderIdentifier	Not sure how this differs from a PurchaseOrderNumber
CarrierEquipment	Requested transportation equipment type (codes from ASC X12 40) Code would identify Truck/Van, Tank Car, etc.
Code	General reference to code listed values
Domain = x (attribute of Code)	Defines the reference for code values
CumulativeTotalQuantity	Cumulative quantity of the product shipped associated to a contract or to a blanket purchase order

6.7.3 Data Elements and Attributes, *continued*

Element	Notes
DateTime	Structure for ranges or singular values of date/time information All times are ISO 8601 with Greenwich Meantime Date format of 8601 is YYYY-MM-DD or YYYYMMDD Time format of 8601 is HH:MM:SSZ or HHMMSSZ (where Z indicates time is GMT) -or- Time format of 8601 is HH:MM:SS (not in GMT), but using attribute for time zone
DateTimeRange	Structure for ranges or singular values of date/time information All times are ISO 8601 with Greenwich Meantime Date format of 8601 is YYYY-MM-DD or YYYYMMDD Time format of 8601 is HH:MM:SSZ or HHMMSSZ (where Z indicates time is GMT) -or- Time format of 8601 is HH:MM:SS (not in GMT), but using attribute for time zone
DeliveryMethodQualifier = x	Allowable Values = Email, Fax, WithDriver, Print, TELEX, Postal
DocumentReference	Link to some information outside of this transaction
ReferenceType = x	Required qualification of DocumentReference
	Allowable Values = PurchaseOrderNumber, PickUpNumber, DeliveryNote, Authorization, CustomerOrderNumber, ContractNumber, PRONumber, AppointmentNumber, ShipmentIdentifier, LoadPlanningNumber, BookingNumber, LineItemNumber, SalesOrderReference, RequisitionNumber, LetterOfCredit, CustomerMasterRecordNumber, RequestForQuoteNumber
EquipmentDetailsLineNumber	Sequential numbering of Equipment Details - usually there will be one line number per identified EquipmentID
EquipmentID	DEFINITION: Unique identification of an equipment unit (railcar number, trailer number, etc.)
EquipmentLoadEmptyStatus	DEFINITION: The load status of carrier equipment. ASC X12 322
LoadIndicatorCode = x	Qualifying values for EquipmentLoadEmptyStatus Allowable Values = Loaded, Empty, Unknown, Partial
EquipmentOwnership	DEFINITION: Indication of relationship of equipment to carrier or ownership of equipment UN/EDIFACT 8077. 2-4 character prefix of the EquipmentID
GrossVolume	DEFINITION: The value of the gross volumetric measure
GrossWeight	DEFINITION: Weight of equipment unit including lading, dunnage, packaging, and tare weight

6.7.3 Data Elements and Attributes, *continued*

Element	Notes
Height	DEFINITION: The vertical dimension of an object
IntermodalService	DEFINITION: Code indicating the type of intermodal service
IntermodalServiceCode = x	Allowable Values = RampToRamp, PointToPoint, PointToPort, PortToPort, PortToPoint
LineItemLineNumber	This field within equipment details to refer to the line item which describes the product or products
LineNumber	Generic line item number If this is found in the Equipment Details section, other sections of the transaction can refer back to it as the EquipmentDetailsLineNumber. If this is found in the LineItem section, other sections of the transaction can refer back to it as the LineItemLineNumber. This assists in tying Products to Equipment and vice versa.
LoadTenderNumber	Refers to a value identified in a specific LoadTender request
LocationCode	Code defined by National Motor Freight Tariff Association point development group or GPS as the official code assigned to a city or point within a city
LogisticsBuyer	All partners have been defined specifically for Logistics due to structural differences (mainly Documentation Requirements) - this is likely to change
LogisticsCareOfParty	"
LogisticsCarrier	"
LogisticsConsignee	"
LogisticsManufacturer	"
LogisticsSeller	"
LogisticsShipFrom	Party from whom consignment is tendered - only to be used if different from Shipper
LogisticsShipTo	The party to whom consignment is destined - only to be used if different from the Consignee
LogisticsSupplier	"
ManufacturingIdentificationDetails	Details of a product from a Manufacturing viewpoint
MarketPlaceBuyerIdentifier	Identifies the Buyer in the Marketplace system internally
MarketPlaceDocumentReference	Link to some information outside of this transaction but within the Marketplace
MarketPlaceIdentifier	Identifies the Marketplace by ex. a D.U.N.S.-Code

6.7.3 Data Elements and Attributes, *continued*

Element	Notes
MarketPlaceInformation	Structure to identify the internal references of a document inside the Marketplace
MarketPlaceSellerIdentifier	Identifies the Seller in the Marketplace system internally
NetVolume	The net value of volumetric measure
NetWeight	The weight of the lading
NumberOfCopies	Number of copies of the documentation
NumberOfOriginals	Number of originals of the documentation
PackageDetail	Provides the capability for hierarchical/multi-level packaging
PackageLevel	Identifies level of packaging (external, intermediate, internal, base, etc.)
PackageType	Used in the ShipmentPackaging section to identify the type of containment for a specific package
PackageWeight	Total weight of packaged product
PackagingInformation	Used within LineItem data to identify product packaging
PackagingQuantity	Number of specified package
PackagingType	General package information for a Product line item
PackagingWeight	Weight of the empty packaging
PartnerIdentifier	A unique business identifier The D-U-N-S Number is specified by RosettaNet.
PercentActive	The dry content in a liquid solution Shown as a percentage
PortOfDischarge	The port or location of unloading
PortOfEmbarkation	The port of departure or loading
ProductGradeDescription	The quality grade of the product being bought or sold This is a method to discriminate products that may not be of standard quality.
ProductIdentifier	Unique down to the packaging level It is a business partner assigned identifier. SYNONYMS: ProductNumber, ItemNumber, MaterialIdentifier, SKU
Agency = x	Allowable Values = ISO, EAN, AssignedBySupplier, AssignedByBuyer, ANSI, GBABA, EDIFACT, AssignedByManufacturer
ProductSubLineItems	To be used to define components of a ProductLineItem
RoutingInstructions	To specify the carrier and sequence of routing
SalesOrderIdentifier	Order number generated by selling party
SealNumber	Unique number on seal used to close a shipment

6.7.3 Data Elements and Attributes, *continued*

Element	Notes
ShipmentIdentification	SID #
ShipmentMethodofPayment	DEFINITION: Payment terms for transportation charges. ASC X12 146
ShipmentPackaging	Section used for identifying packaging relevant to the shipment process including bar-code labeling
ShipmentTerms	The combination of the ShipmentTermsCode and ShipmentTermsLocation SAMPLE: CIF Rotterdam
ShipmentTermsCode	Terms under which a product is shipped For international orders this would be INCO terms. For domestic orders this would be Freight Prepaid, FOB, or similar.
ShippingLabelNumber	Bar-code label numbering data
SpecialInstructions	DEFINITION: Free-form textual description of requirements
StandardCarrierAlphaCode	Code used to identify a transportation carrier
SubLineItemNumber	The sub-line item number relating to the primary line item referenced in the message
TransportationMethodCode	Method of transportation for the shipment ASC X12 91. SAMPLE DATA S, R, J, M
VoyageTripDate	Scheduled Ocean Voyage Date
VoyageTripNumber	Scheduled Ocean Voyage Number

6.7.4 Example Markup

The following are examples of the Ship Notice business transaction:

6.7.4.1 Ship Notice

For all the scenarios identified in Section 6.2.11 the message is the same. The only change is in the To and From Section in the Header.

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="-5">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDate Time> <DateTime TimeZone="-5">20001205T1200</DateTime> </RequestingDocumentDate Time> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>FL</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12-3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> </pre>	<p>Header Markup Section</p>

6.7.4.1 Ship Notice, continued

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">888888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>LosAngeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98-7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> <Header> </pre>	
<pre> <Ship NoticeProperties> <ShipmentIdentification> <DocumentReference ReferenceType="ShipmentIdentifier"> <DocumentIdentifier>678902</DocumentIdentifier> </DocumentReference> </ShipmentIdentification> <ShipDate> <DateTime TimeZone="EST">20001224T1159</DateTime> </ShipDate> <LoadTenderNumber> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>BoL00234</DocumentIdentifier> </DocumentReference> </LoadTenderNumber> <PurchaseOrderNumber> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>XYZ0001</DocumentIdentifier> </DocumentReference> </PurchaseOrderNumber> <TransportationMethodCode>LT</TransportationMethodCode> <RoutingInstructions> <Comment> <Content>OVERNITE TRANS</Content> </Comment> </pre>	<p>Ship NoticeProperties is a subset of Ship NoticeBody</p>

6.7.4.1 Ship Notice, continued

Example Markup	Annotation
<pre> </RoutingInstructions> <ReferenceInformation> <DocumentReference ReferenceType="PRONumber"> <DocumentIdentifier>555555</DocumentIdentifier> </DocumentReference> </ReferenceInformation> <ShipmentMethodofPayment>CC</ShipmentMethodofPayment> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO2000">FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>Anytown</ShipmentTermsLocation> </ShipmentTerms> </Ship NoticeProperties> </pre>	
<pre> <Ship NoticePartners> <LogisticsShipFrom> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>XX</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-8888888</TaxIdentifierNumber> <Jurisdiction>XX</Jurisdiction> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsShipFrom> <LogisticsConsignee> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>ABC Company</PartnerName> <PartnerIdentifier PartnerRole="Consignee"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Michelle Jackson</ContactName> <ContactDescription>Manager</ContactDescription> <TelephoneNumber> </pre>	<p>Ship NoticePartners is a subset of Ship NoticeBody</p>

6.7.4.1 Ship Notice, continued

Example Markup	Annotation
<pre> <AreaCode>999</AreaCode> <PhoneNumber>1234567</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>999 South Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>XX</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-999999</TaxIdentifierNumber> <Jurisdiction>XX</Jurisdiction> </TaxInformation> <URL>www.ABCCompany.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsConsignee> <LogisticsCarrier> <StandardCarrierAlphaCode>SCNN</StandardCarrierAlphaCode> </LogisticsCarrier> <LogisticsShipTo> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>ABC Company</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Michelle Jackson</ContactName> <ContactDescription>Manager</ContactDescription> <TelephoneNumber> <AreaCode>999</AreaCode> <PhoneNumber>1234567</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>100 South Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>XX</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99-999999</TaxIdentifierNumber> <Jurisdiction>XX</Jurisdiction> </TaxInformation> <URL>www.ABCCompany.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsShipTo> </Ship NoticePartners> </pre>	

6.7.4.1 Ship Notice, continued

Example Markup	Annotation
<pre> <Ship NoticeDetails> <Ship NoticeEquipmentDetails> <LineNumber>1</LineNumber> <LineItemLineNumber>1</LineItemLineNumber> <LineItemLineNumber>2</LineItemLineNumber> <LineItemLineNumber>3</LineItemLineNumber> <EquipmentID>1234</EquipmentID> <CarrierEquipment> <Code Domain="ANSI ASC X12 40">TV</Code> </CarrierEquipment> </Ship NoticeEquipmentDetails> <ProductLineItem> <LineNumber>1</LineNumber> <EquipmentDetailsLineNumber>1</EquipmentDetailsLineNumber> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier">XX12222</ProductIdentifier> <ProductIdentifier Agency="AssignedByBuyer">A2327</ProductIdentifier> <ProductDescription>Product A - 5 Gallon Pail</ProductDescription> </ProductIdentification> <ShippedQuantity> <Measurement UnitOfMeasureCode="LB">200</Measurement> </ShippedQuantity> <PurchaseOrderNumber> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>XYZ0001</DocumentIdentifier> <ReferenceItem>0002</ReferenceItem> </DocumentReference> </PurchaseOrderNumber> <ReleaseNumber>34</ReleaseNumber> <CumulativeTotalQuantity> <Measurement UnitOfMeasureCode="LB">8600</Measurement> </CumulativeTotalQuantity> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier"/> </ProductIdentification> <PackagingQuantity>5</PackagingQuantity> <PackagingType>5 Gallon Pail</PackagingType> <PackagingWeight> <Measurement UnitOfMeasureCode="LB">40</Measurement> </PackagingWeight> </PackagingInformation> </ProductLineItem> <ProductLineItem> <LineNumber>2</LineNumber> <EquipmentDetailsLineNumber>1</EquipmentDetailsLineNumber> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier">XX23333</ProductIdentifier> <ProductIdentifier Agency="AssignedByBuyer">B1234</ProductIdentifier> <ProductDescription>Product B - 10 LB Bag</ProductDescription> </ProductIdentification> <ShippedQuantity> <Measurement UnitOfMeasureCode="LB">1000</Measurement> </ShippedQuantity> <PurchaseOrderNumber> <DocumentReference ReferenceType="PurchaseOrderNumber"> </pre>	<p>Ship NoticeDetails is a subset of Ship NoticeBody</p>

6.7.4.1 Ship Notice, continued

Example Markup	Annotation
<pre> <DocumentIdentifier>XYZ0001</DocumentIdentifier> <ReferenceItem>0001</ReferenceItem> </DocumentReference> </PurchaseOrderNumber> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier"/> </ProductIdentification> <PackagingQuantity>100</PackagingQuantity> <PackagingType>10 LB Bag</PackagingType> <PackagingWeight> <Measurement UnitOfMeasureCode="LB">10</Measurement> </PackagingWeight> </PackagingInformation> </ProductLineItem> <ProductLineItem> <LineNumber>3</LineNumber> <EquipmentDetailsLineNumber>1</EquipmentDetailsLineNumber> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier">XX9999</ProductIdentifier> <ProductIdentifier Agency="AssignedByBuyer">B9999</ProductIdentifier> <ProductDescription>Product C</ProductDescription> <ProductGradeDescription/> </ProductIdentification> <ShippedQuantity> <Measurement UnitOfMeasureCode="LB">100</Measurement> </ShippedQuantity> <PurchaseOrderNumber> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>XYZ0001</DocumentIdentifier> <ReferenceItem>0001</ReferenceItem> </DocumentReference> </PurchaseOrderNumber> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="AssignedBySupplier"/> </ProductIdentification> <PackagingQuantity>10</PackagingQuantity> <PackagingType>carton</PackagingType> <PackagingWeight> <Measurement UnitOfMeasureCode="LB">10</Measurement> </PackagingWeight> </PackagingInformation> </ProductLineItem> <ShipmentPackaging> <PackageDetail> <PackageType> <Code Domain="ANSI ASC X12 103">PLT71</Code> </PackageType> <PackageLevel>External</PackageLevel> <ProductCode> <Code Domain="ANSI ASC X12 352">Product A - 5 Gallon Pail</Code> </ProductCode> <ShippingLabelNumber>#12344</ShippingLabelNumber> <SubUnitCount>5</SubUnitCount> </PackageDetail> </pre>	

6.7.4.1 Ship Notice, continued

Example Markup	Annotation
<pre> <PackageType> <Code Domain="ANSI ASC X12 103">PLT71</Code> </PackageType> <PackageLevel>base</PackageLevel> <ShippingLabelNumber>#12345</ShippingLabelNumber> </PackageDetail> <PackageDetail> <PackageType> <Code Domain="ANSI ASC X12 103">PLT71</Code> </PackageType> <PackageLevel>base</PackageLevel> <ShippingLabelNumber>#12346</ShippingLabelNumber> </PackageDetail> <PackageDetail> <PackageType> <Code Domain="ANSI ASC X12 103">PLT71</Code> </PackageType> <PackageLevel>base</PackageLevel> <ShippingLabelNumber>#12347</ShippingLabelNumber> </PackageDetail> <PackageDetail> <PackageType> <Code Domain="ANSI ASC X12 103">PLT71</Code> </PackageType> <PackageLevel>base</PackageLevel> <ShippingLabelNumber>#12348</ShippingLabelNumber> </PackageDetail> <PackageDetail> <PackageType> <Code Domain="ANSI ASC X12 103">PLT71</Code> </PackageType> <PackageLevel>base</PackageLevel> <ShippingLabelNumber>#12349</ShippingLabelNumber> </PackageDetail> </PackageDetail> <PackageDetail> <PackageType> <Code Domain="ANSI ASC X12 103">PLT71</Code> </PackageType> <PackageLevel>External</PackageLevel> <ProductCode> <Code Domain="ANSI ASC X12 352">Product B - 10 LB Bag</Code> </ProductCode> <PackageWeight> <Measurement UnitOfMeasureCode="LB">500</Measurement> </PackageWeight> <ShippingLabelNumber>12500</ShippingLabelNumber> <SubUnitCount>50</SubUnitCount> </PackageDetail> <PackageDetail> <PackageType> <Code Domain="ANSI ASC X12 103">PLT71</Code> </PackageType> <PackageLevel>External</PackageLevel> <ProductCode> <Code Domain="ANSI ASC X12 352">Product B - 10 LB Bag</Code> </pre>	

6.7.4.1 Ship Notice, continued

Example Markup	Annotation
<pre> </ProductCode> <PackageWeight> <Measurement UnitOfMeasureCode="LB">500</Measurement> </PackageWeight> <ShippingLabelNumber>12501</ShippingLabelNumber> <SubUnitCount>50</SubUnitCount> </PackageDetail> <PackageDetail> <PackageType> <Code Domain="ANSI ASC X12 103">CTN</Code> </PackageType> <PackageLevel>base</PackageLevel> <PackageWeight> <Measurement UnitOfMeasureCode="LB"/> </PackageWeight> <ShippingLabelNumber/> <SubUnitCount>10</SubUnitCount> <PackageDetail> <ShippingLabelNumber>#12360</ShippingLabelNumber> </PackageDetail> <PackageDetail> <ShippingLabelNumber>#12361</ShippingLabelNumber> </PackageDetail> <PackageDetail> <ShippingLabelNumber>#12362</ShippingLabelNumber> </PackageDetail> <PackageDetail> <ShippingLabelNumber>#12363</ShippingLabelNumber> </PackageDetail> <PackageDetail> <ShippingLabelNumber>#12364</ShippingLabelNumber> </PackageDetail> <PackageDetail> <ShippingLabelNumber>#12365</ShippingLabelNumber> </PackageDetail> <PackageDetail> <ShippingLabelNumber>#12366</ShippingLabelNumber> </PackageDetail> <PackageDetail> <ShippingLabelNumber>#12367</ShippingLabelNumber> </PackageDetail> <PackageDetail> <ShippingLabelNumber>#12368</ShippingLabelNumber> </PackageDetail> <PackageDetail> <ShippingLabelNumber>#12369</ShippingLabelNumber> </PackageDetail> </PackageDetail> </ShipmentPackaging> </Ship NoticeDetails> </pre>	

6.8 Shipment Status

6.8.1 Release Information

Jan 2001	Expanded Release, v2.0
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6.8.2 Shipment Status Data Model

The following diagrams show the graphical representation of the Shipment Status Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 1: This picture shows the general structure of the Shipment Status message.

6.8.2 Shipment Status Data Model, continued

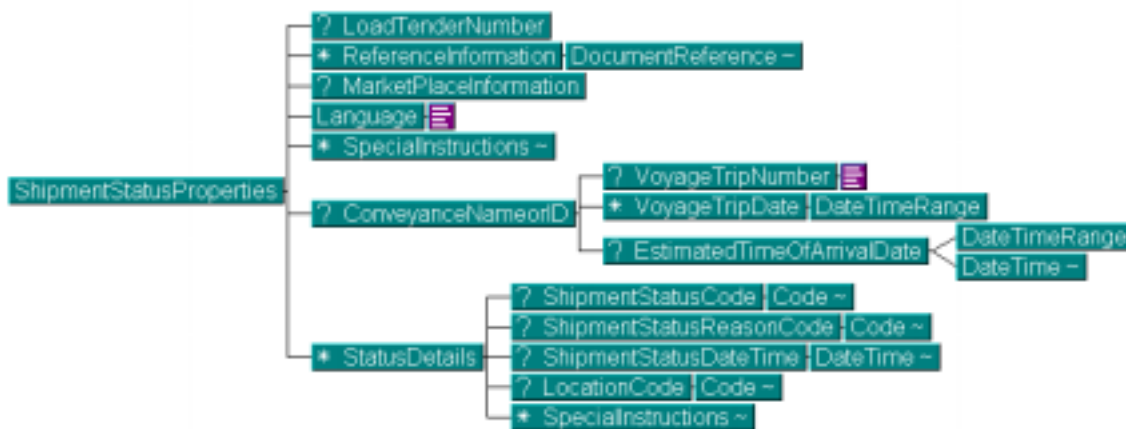


Figure 2: This shows the detailed structure of the Shipment StatusProperties (part of the Shipment StatusBody).

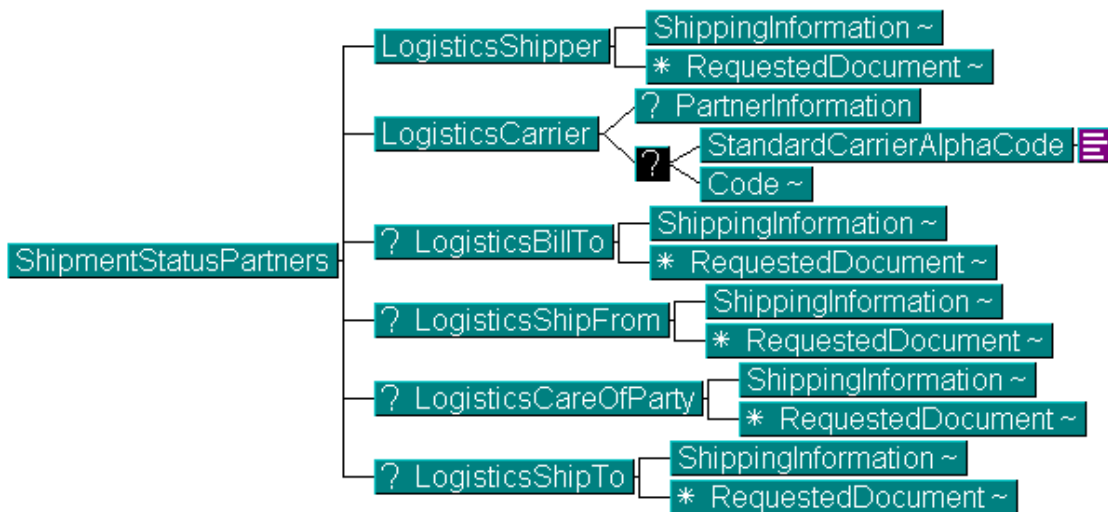


Figure 3: This shows the detailed structure of the Shipment StatusPartners (part of the Shipment StatusBody).

6.8.2 Shipment Status Data Model, continued

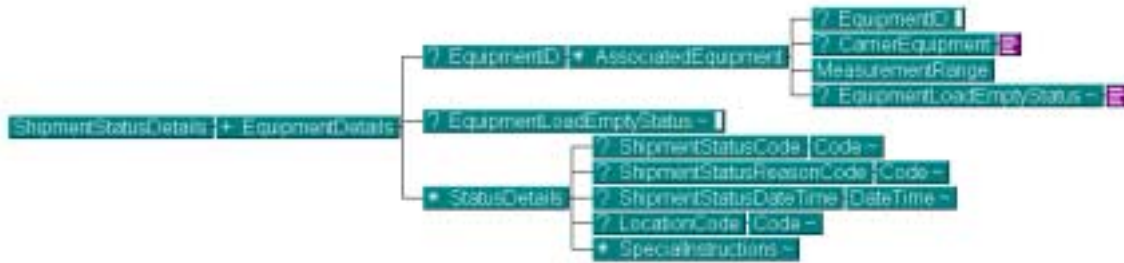


Figure 4: This shows the structure of the Shipment StatusDetails (part of the Shipment StatusBody).

6.8.3 Data Elements and Attributes

The following table lists the data elements and attributes of the Shipment Status business transaction:

Element	Notes
ConveyanceNameorID	Identification of the conveyance and/or trip, i.e., train ID, vessel name Meant to convey the highest level of conveyance, not to include container numbers, railcar numbers, etc.
Shipment Status	This message can be used by a transportation carrier, marketplace, or application service provider to provide shippers, consignees, and their agents with a status of shipments in terms of dates, times, locations, route, identifying numbers, and conveyance
Shipment StatusCode	Code specifying the status of shipments UNEdifact 4405 - United Nations Recommendation #24
Shipment StatusReasonCode	Code specifying the reason for a status of a shipment
TaxIdentifierNumber	For example a VAT

6.8.4 Example Markup

The following are examples of the Shipment Status business transaction:

6.8.4.1 Shipment Status

For all the scenarios identified in Section 6.2.9 the message is the same. The only change is in the To and From Section in the Header.

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="-5">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="-5">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>Your State</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12- 3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> </pre>	<p>Header Markup Section</p>

6.8.4.1 Shipment Status, continued

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">88888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98- 7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> <Header> </pre>	
<pre> <Shipment StatusBody> <Shipment StatusProperties> <LoadTenderNumber> <DocumentReference ReferenceType="ShipmentIdentifier"> <DocumentIdentifier>XYZ9999</DocumentIdentifier> </DocumentReference> </LoadTenderNumber> <ReferenceInformation> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>ZYX8888</DocumentIdentifier> </DocumentReference> </ReferenceInformation> <Language>EN</Language> <SpecialInstructions InstructionType="ShipperInstructions">Handle with care</SpecialInstructions> <SpecialInstructions InstructionType="ConsigneeInstructions">Call 1 hour before delivery</SpecialInstructions> <ConveyanceNameorID> <VoyageTripNumber>123456</VoyageTripNumber> <VoyageTripDate> <DateTimeRange> </pre>	<p>Shipment Status Properties is a subset of Shipment Status Body</p>

6.8.4.1 Shipment Status, continued

Example Markup	Annotation
<pre> <FromDateTime TimeZone="- 05:00">20001220T0600</FromDateTime> <ToDateTime TimeZone="- 05:00">20001220T1000</ToDateTime> </DateTimeRange> </VoyageTripDate> <EstimatedTimeOfArrivalDate> <DateTimeRange> <ToDateTime TimeZone="- 05:00">20001220T1100</ToDateTime> </DateTimeRange> </EstimatedTimeOfArrivalDate> </ConveyanceNameorID> <StatusDetails> <Shipment StatusCode> <Code Domain="EDIFACT 4405">43</Code> </Shipment StatusCode> <Shipment StatusReasonCode> <Code Domain="">Custom Control</Code> </Shipment StatusReasonCode> <Shipment StatusDateTime> <DateTime TimeZone="-05:00">20001205T1530</DateTime> </Shipment StatusDateTime> <LocationCode> <Code Domain="LOCODE">NYC</Code> </LocationCode> <SpecialInstructions InstructionType="ShipperInstructions"/> </StatusDetails> </Shipment StatusProperties> </pre>	
<pre> <Shipment StatusPartners> <LogisticsShipper> <ShippingInformation LocationPointType=""> <LocationCode> <Code Domain="LOCODE">CHI</Code> </LocationCode> </ShippingInformation> </LogisticsShipper> <LogisticsCarrier> <PartnerInformation> <PartnerName>Schneider National</PartnerName> <PartnerIdentifier PartnerRole="Carrier"> <Code Domain="DUNS">987654321</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Smith</ContactName> <ContactDescription>Dispatch</ContactDescription> <TelephoneNumber> <AreaCode>920</AreaCode> <PhoneNumber>5922000</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>3101 S. Packerland Drive</AddressLine> <CityName>Green Bay</CityName> <StateProvince>WI</StateProvince> </pre>	<p>Shipments Status Partners is a subset of Shipment Status Body</p>

6.8.4.1 Shipment Status, *continued*

Example Markup	Annotation
<pre> <PostalCode>54306-2545</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State"/> <Jurisdiction>WI</Jurisdiction> </TaxInformation> <URL>www.schneider.com</URL> </PartnerInformation> </LogisticsCarrier> <LogisticsShipTo> <ShippingInformation LocationPointType=""> <LocationCode> <Code Domain="LOCODE">ILG</Code> </LocationCode> </ShippingInformation> </LogisticsShipTo> </Shipment StatusPartners> </pre>	
<pre> <Shipment StatusDetails> <EquipmentDetails> <EquipmentLoadEmptyStatus LoadIndicatorCode="Loaded"/> <StatusDetails> <Shipment StatusCode> <Code Domain="UNEdifact 9011">20</Code> </Shipment StatusCode> <Shipment StatusReasonCode> <Code Domain="UNEdifact 9013">9</Code> </Shipment StatusReasonCode> <Shipment StatusDateTime> <DateTime TimeZone="-05:00">20001206T1600</DateTime> </Shipment StatusDateTime> <LocationCode> <Code Domain="LOCODE">NYC</Code> </LocationCode> <SpecialInstructions InstructionType="ShipperInstructions"/> </StatusDetails> </EquipmentDetails> </Shipment StatusDetails> </Shipment StatusBody> </Shipment Status> </pre>	<p>Shipment Status Details is a subset of Shipment Status Body</p>

6.9 Freight Bill

6.9.1 Release Information

Jan 2001	Expanded Release, v2.0
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6.9.2 Freight Bill Data Model

The following diagrams show the graphical representation of the Freight Bill Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

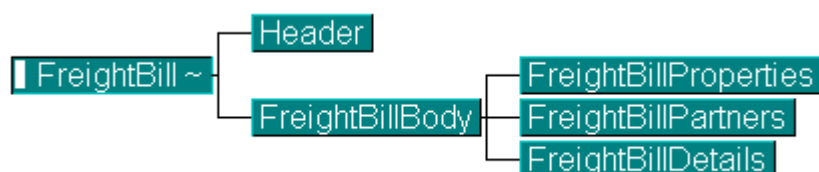


Figure 1: This is the global structure of the Freight Bill message.

6.9.2 Freight Bill Data Model, continued



Figure 2: This is the structure of the Freight BillProperties (part of the Freight BillBody).

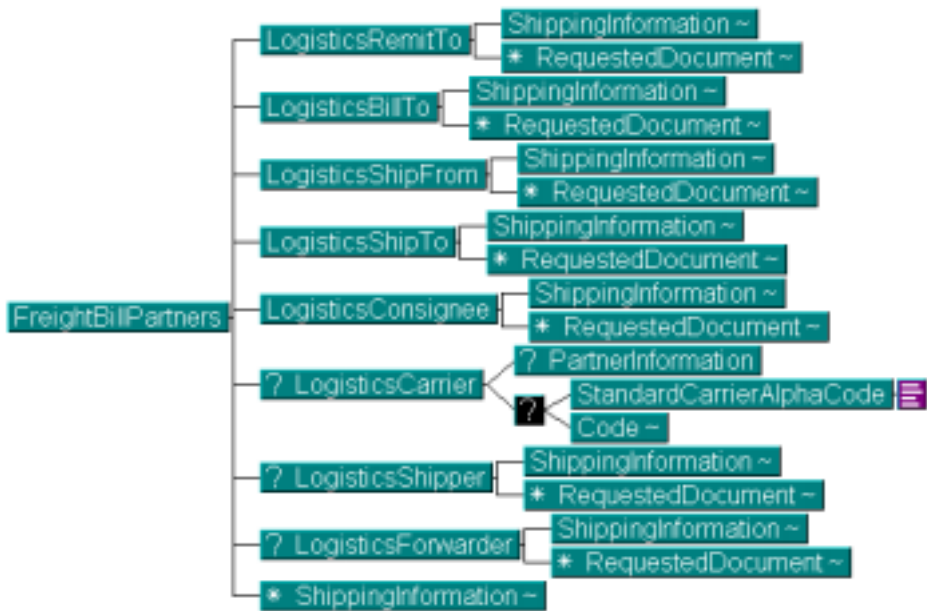


Figure 3: This shows the structure of the Freight BillPartners (part of the Freight BillBody).

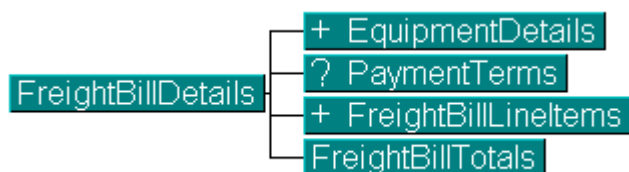
6.9.2 Freight Bill Data Model, *continued*

Figure 4: This picture shows the global structure of the Freight BillDetails (part of the Freight BillBody).



Figure 5: This structure shows the EquipmentDetails (part of the Freight BillDetails).

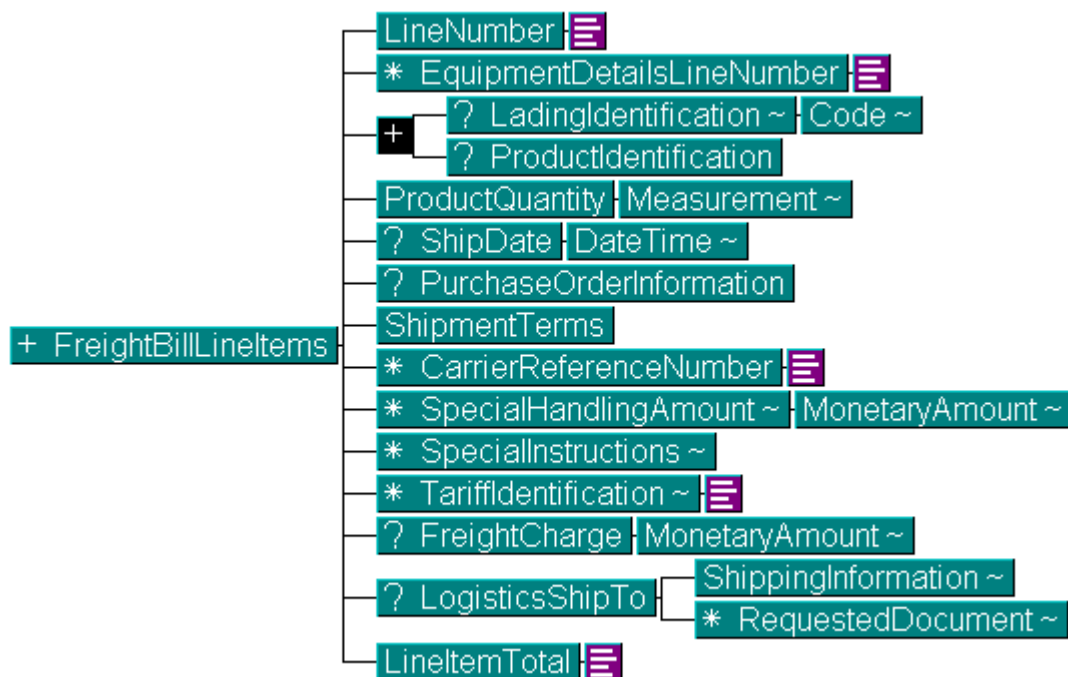
6.9.2 Freight Bill Data Model, *continued*

Figure 6: This is the structure of the Freight BillLineItems (part of the Freight BillDetails).

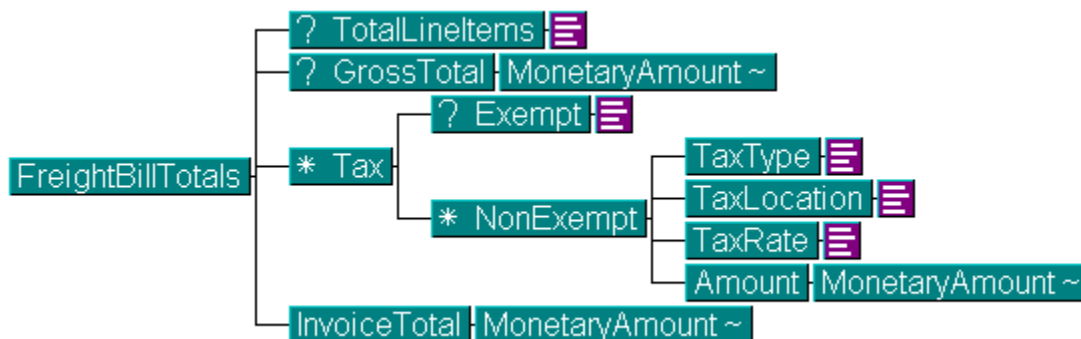


Figure 7: This is the structure of the Freight BillTotals (part of the Freight BillDetails).

6.9.3 Data Elements and Attributes

The following table lists the data elements and attributes of the Freight Bill business transaction:

Element	Notes
AlternativeCommunicationMethod	Additional methods to get in contact via telex, printer
CarrierEquipment	Requested transportation equipment type CODESOURCE: ASC X12 40 SAMPLEDATA: CN, TL, RR,
ContactInformation	The collection of business properties that provide communication and address information for contacting a person, organization, or business
FreightCharge	Charge for the freight portion of the line item total
SpecialHandlingAmount	Amount charged for special handling and accessorial charges related to the transport
StandardCarrierAlphaCode	Two to four alphanumeric code to identify the transport carrier
TaxIdentifierNumber	For example a VAT
WaybillNumber	The number of the waybill assigned by the carrier

6.9.4 Example Markup

The following are examples of the Freight Bill business transaction:

6.9.4.1 Freight Bill

For all the scenarios identified in Section 6.2.10 the message is the same. The only change is in the To and From Section in the Header.

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="-5">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="-5">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>FL</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12-3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> </pre>	<p>Header Markup Section</p>

6.9.4.1 Freight Bill, continued

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">888888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98-7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> <Header> </pre>	
<pre> <Freight BillProperties> <Freight BillNumber> <DocumentIdentifier>123456789</DocumentIdentifier> <Freight BillType>Original</Freight BillType> <DateTime TimeZone="-05:00">20001204T1200</DateTime> </Freight BillNumber> <Purpose>Original</Purpose> <TransportationMethodCode>S</TransportationMethodCode> <ShipmentMethodofPayment>PU</ShipmentMethodofPayment> <LoadTenderNumber> <DocumentIdentifier>987654321</DocumentIdentifier> <LoadTenderIssuedDateTime LoadTenderDateTypeCode="OnBoardRail"> <DateTime TimeZone="-05:00">20001204T1300</DateTime> </LoadTenderIssuedDateTime> </LoadTenderNumber> <MarketPlaceInformation> <MarketPlaceIdentifier> <Code Domain="DUNS">999999999</Code> </MarketPlaceIdentifier> <MarketPlaceDocumentReference ReferenceType="SalesOrderReference"> <DocumentIdentifier>5436287</DocumentIdentifier> <Referenceltem/> </MarketPlaceDocumentReference> <MarketPlaceSellerIdentifier> </pre>	<p>Freight Bill Properties is a subset of Freight Bill Body.</p>

6.9.4.1 Freight Bill, continued

Example Markup	Annotation
<pre> <Code Domain="DUNS">88888888</Code> </MarketPlaceSellerIdentifier> <MarketPlaceBuyerIdentifier> <Code Domain="DUNS">77777777</Code> </MarketPlaceBuyerIdentifier> </MarketPlaceInformation> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> <ReferenceInformation> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>7893487</DocumentIdentifier> </DocumentReference> </ReferenceInformation> <WaybillNumber> <DocumentIdentifier>664433399</DocumentIdentifier> <DateTime TimeZone="-05:00">20001204T1400</DateTime> </WaybillNumber> <LanguageCode> <Code Domain="">English</Code> </LanguageCode> <SecondCurrency> <CurrencyCode> <Code Domain="ISO 4217">EUR</Code> </CurrencyCode> </SecondCurrency> <CurrencyRates> <SellersCurrency> <CurrencyCode> <Code Domain="ISO 4217">USD</Code> </CurrencyCode> </SellersCurrency> <BuyersCurrency> <CurrencyCode> <Code Domain="ISO 4217">EUR</Code> </CurrencyCode> </BuyersCurrency> <ExchangeRate>1.5</ExchangeRate> </CurrencyRates> <RoutingInstructions> <Comment> <Content>Moonshadow Shipping Company</Content> </Comment> </RoutingInstructions> </Freight BillProperties> </pre>	
<pre> <Freight BillPartners> <LogisticsBillTo> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="BillToParty"> <Code Domain="DUNS">123444321</Code> </PartnerIdentifier> <ContactInformation> </pre>	<p>Freight Bill Partners is a subset of the Freight Bill Body</p>

6.9.4.1 Freight Bill, continued

Example Markup	Annotation
<pre> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">230</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="023"/> <Jurisdiction>US</Jurisdiction> <TaxCertificateType> <Code Domain="034"/> </TaxCertificateType> <TaxCertificateNumber>973</TaxCertificateNumber> <TaxBasis>State</TaxBasis> <TaxRate>Standard</TaxRate> <EffectiveDates> <DateTimeRange> <FromDate Time="200012150900" TimeZone="00"/> </DateTimeRange> </EffectiveDates> </TaxInformation> </PartnerInformation> </ShippingInformation> </LogisticsBillTo> <LogisticsConsignee> <ShippingInformation LocationPointType=""> <PartnerInformation> <PartnerName>ABC Company</PartnerName> <PartnerIdentifier PartnerRole="Consignee"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Michelle Jackson</ContactName> <ContactDescription>Manager</ContactDescription> <TelephoneNumber> <AreaCode>999</AreaCode> <PhoneNumber>1234567</PhoneNumber> </TelephoneNumber> </ContactInformation> </ShippingInformation> </LogisticsConsignee> <AddressInformation> <AddressLine>999 South Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>XX</StateProvince> <PostalCode>12345</PostalCode> </AddressInformation> </pre>	

6.9.4.1 Freight Bill, continued

Example Markup	Annotation
<pre> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99- 999999</TaxIdentifierNumber> <Jurisdiction>XX</Jurisdiction> </TaxInformation> <URL>www.ABCCompany.com</URL> </PartnerInformation> </ShippingInformation> </LogisticsConsignee> </Freight BillPartners> </pre>	
<pre> <Freight BillDetails> <EquipmentDetails> <LineNumber>1</LineNumber> <LineItemLineNumber>1</LineItemLineNumber> <EquipmentID> <AssociatedEquipment> <CarrierEquipment> <MeasurementRange> <Measurement UnitOfMeasureCode="feet">40</Measurement> </MeasurementRange> </CarrierEquipment> <MeasurementRange> <Measurement UnitOfMeasureCode="number">1</Measurement> </MeasurementRange> <EquipmentLoadEmptyStatus LoadIndicatorCode="Loaded"/> </AssociatedEquipment> </EquipmentID> <Height> <MeasurementRange> <Measurement UnitOfMeasureCode="feet">12</Measurement> </MeasurementRange> </Height> <Width> <MeasurementRange> <Measurement UnitOfMeasureCode="feet">8</Measurement> </MeasurementRange> </Width> <Length> <MeasurementRange> <Measurement UnitOfMeasureCode="feet">40</Measurement> </MeasurementRange> </Length> <NetWeight> <Measurement UnitOfMeasureCode="lbs">45000</Measurement> </NetWeight> <TareWeight> <Measurement UnitOfMeasureCode="lbs">20000</Measurement> </TareWeight> <GrossWeight> <Measurement UnitOfMeasureCode="lbs">65000</Measurement> </GrossWeight> <SealNumber>238747</SealNumber> <EquipmentLoadEmptyStatus LoadIndicatorCode="Loaded"/> </pre>	<p>Freight Bill Detail is a subset of Freight Bill Body</p>

6.9.4.1 Freight Bill, continued

Example Markup	Annotation
<pre> </EquipmentDetails> <PaymentTerms> <TermsOfSale>Net30</TermsOfSale> <PaymentTermsBasisDateCode> <Code Domain="">1</Code> </PaymentTermsBasisDateCode> <PaymentTermsBasisDate> <DateTime TimeZone="-05:00">20001206</DateTime> </PaymentTermsBasisDate> <Discounts> <PercentDiscount>10</PercentDiscount> <DiscountAmount>56000</DiscountAmount> <DaysDue>10</DaysDue> </Discounts> <Penalty>0.10</Penalty> </PaymentTerms> <Freight BillLineItems> <LineNumber>1</LineNumber> <EquipmentDetailsLineNumber>1</EquipmentDetailsLineNumber> <ProductQuantity> <Measurement UnitOfMeasureCode="lbs">45000</Measurement> </ProductQuantity> <ShipDate> <DateTime TimeZone="-05:00">20001206T1300</DateTime> </ShipDate> <PurchaseOrderInformation> <PurchaseOrderNumber>129083487</PurchaseOrderNumber> <PurchaseOrderIssuedDate> <DateTime TimeZone="-05:00">20001204T1200</DateTime> </PurchaseOrderIssuedDate> <PurchaseOrderLineNumber>1</PurchaseOrderLineNumber> <ChangeSequenceNumber/> <ReleaseNumber>001</ReleaseNumber> </PurchaseOrderInformation> <CarrierReferenceNumber>338822</CarrierReferenceNumber> <SpecialHandlingAmount SpecialServiceCodes="hose"> <MonetaryAmount CurrencyCode="USD">200.00</MonetaryAmount> </SpecialHandlingAmount> <FreightCharge> <MonetaryAmount CurrencyCode="USD">200.00</MonetaryAmount> </FreightCharge> <LineItemTotal>200.00</LineItemTotal> </Freight BillLineItems> <Freight BillTotals> <TotalLineItems>1</TotalLineItems> <GrossTotal> <MonetaryAmount CurrencyCode="USD">200.00</MonetaryAmount> </GrossTotal> <Tax> <Exempt>Y</Exempt> </Tax> <InvoiceTotal> <MonetaryAmount CurrencyCode="USD">200.00</MonetaryAmount> </InvoiceTotal> </Freight BillTotals> </Freight BillDetails> </pre>	

6.10 Carrier Weights

6.10.1 Release Information

Jan 2001	Expanded Release, v2.0
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6.10.2 Carrier Weights Data Model

The following diagrams show the graphical representation of the Carrier Weights Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 1: Carrier Weights structure.

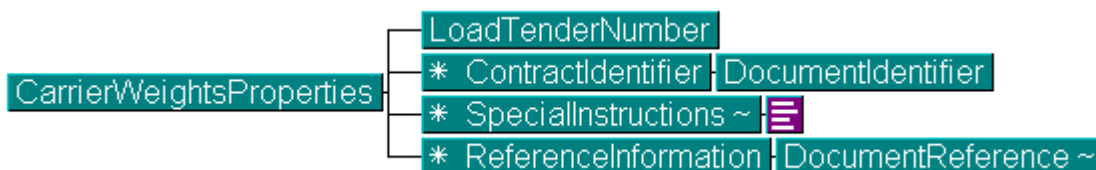


Figure 2: Carrier WeightsProperties structure.

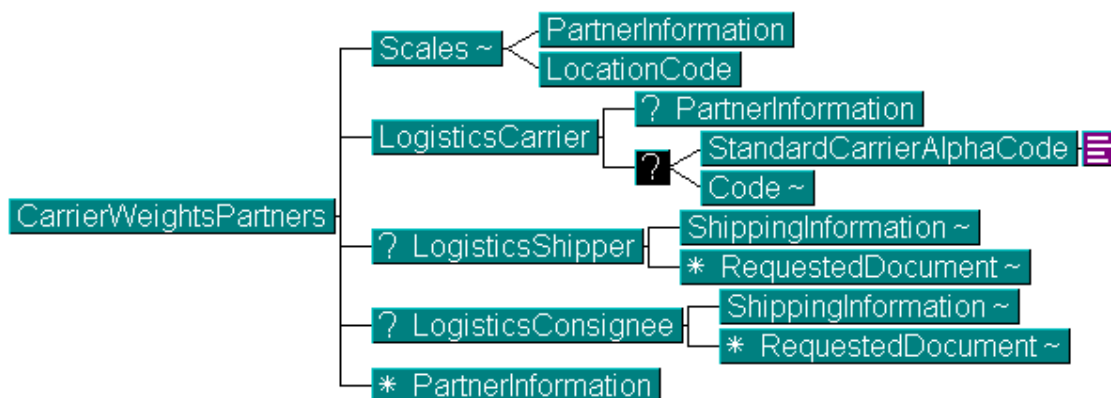
6.10.2 Carrier Weights Data Model, *continued*

Figure 3: Carrier WeightsPartners structure.

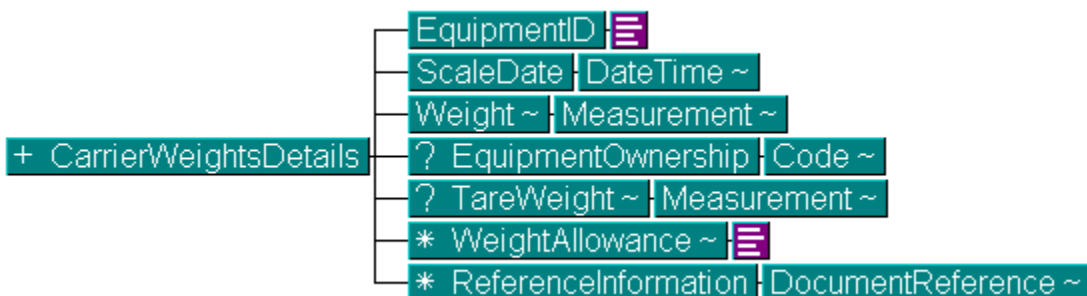


Figure 4: Carrier WeightsDetail structure.

6.10.3 Data Elements and Attributes

The following table lists the data elements and attributes of the Carrier Weights business transaction:

Element	Notes
CityName	The name or city of the Scales
Comment	Free form text is not recommended in Rail messages
DateTime	The date and time of the weigh
DocumentReference	The scale ticket number
EquipmentID	The entire equipment identification including the 4 character alpha equipment initial and the 6 character numeric equipment number, not including check digit
EquipmentOwnership	The 4 character alpha code identifying the mark of the equipment owner
LoadTenderNumber	The Rail Bill of Lading number
LogisticsCarrier	The Standard Carrier Alpha Code of the Carrier
ScaleDate	Contains the date structure for the date/time of the weigh
SpecialInstructions	Free form text is not recommended in Rail messages
WeightAllowance	Allowable values are contained in the attribute
WeightAllowanceType	The attribute for the Weight Allowance
WeightQualifier	Allowable values are contained in the attribute

6.10.4 Example Markup

The following are examples of the Carrier Weights business transaction:

6.10.4.1 Carrier Weights

For all the scenarios identified in Section 6.2.12 the message is the same. The only change is in the To and From Section in the Header.

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="-5">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDate Time> <DateTime TimeZone="-5">20001205T1200</DateTime> </RequestingDocumentDate Time> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>FL</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12-3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> </pre>	<p>Header Markup Section</p>

6.10.4.1 Carrier Weights, continued

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">888888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code Domain="ASC X12 154">1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98-7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> <Header> </pre>	
<pre> <Carrier WeightsProperties> <LoadTenderNumber> <DocumentIdentifier>UDX010405901</DocumentIdentifier> <LoadTenderIssuedDateTime> <DateTime TimeZone="-5">20001225t1201</DateTime> </LoadTenderIssuedDateTime> </LoadTenderNumber> <ContractIdentifier> <DocumentIdentifier>UDX123456-901</DocumentIdentifier> </ContractIdentifier> <SpecialInstructions InstructionType="ShipperInstructions"/> <ReferenceInformation> <DocumentReference ReferenceType="ShipmentIdentifier"> <DocumentIdentifier>7451845</DocumentIdentifier> <ReferenceItem/> </DocumentReference> </ReferenceInformation> </Carrier WeightsProperties> </pre>	<p>Carrier Weights Properties is a subset of Carrier Weights Body</p>
<pre> <Carrier WeightsPartners> <Scales ScaleType="Private"> <PartnerInformation> <PartnerName>ABC Scales</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">444333222</Code> </pre>	<p>Carrier Weights Partners is a subset of Carrier Weights Body</p>

6.10.4.1 Carrier Weights, continued

Example Markup	Annotation
<pre> </PartnerIdentifier> <ContactInformation> <ContactName>John Smith</ContactName> <ContactDescription>Scale Operator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>123</AreaCode> <PhoneNumber>4567891</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Main Street</AddressLine> <CityName>Your City</CityName> <StateProvince>PA</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>USA</PostalCountry> <Comment> <Content>Shipping Hours 8am to 5pm</Content> </Comment> </AddressInformation> <URL>www.ABCScales.com</URL> </PartnerInformation> </Scales> <LogisticsCarrier> <StandardCarrierAlphaCode>UP</StandardCarrierAlphaCode> </LogisticsCarrier> <LogisticsShipper> <ShippingInformation LocationPointType=""> <LocationCode> <Code Domain="ASC X12 154">1234</Code> </LocationCode> </ShippingInformation> </LogisticsShipper> </CarrierWeightsPartners> </pre>	
<pre> <CarrierWeightsDetails> <EquipmentID>UTLX123456</EquipmentID> <ScaleDate> <DateTime TimeZone="-5">20001225T0800</DateTime> </ScaleDate> <Weight WeightQualifier="ActualNetWeight"> <Measurement UnitOfMeasureCode="LB">100000</Measurement> </Weight> <EquipmentOwnership> <Code Domain="SCAC">UP</Code> </EquipmentOwnership> <TareWeight TareWeightQualifierCode="Marked"> <Measurement UnitOfMeasureCode="LB">20000</Measurement> </TareWeight> <WeightAllowance WeightAllowanceType="Dunnage">5000</WeightAllowance> <ReferenceInformation> <DocumentReference ReferenceType="ShipmentIdentifier"> <DocumentIdentifier>AB12345</DocumentIdentifier> </DocumentReference> </ReferenceInformation> </CarrierWeightsDetails> </pre>	<p>Carrier Weights Details is a subset of Carrier Weights Body</p>

7.0 Financials

IMPORTANT: These Chemical eStandards have been developed on a nonprofit basis through the Chemical eStandards Association by a coalition of interested companies in the chemical industry for the mutual benefit of the entire industry. The copyright to the Chemical eStandards is owned by the Association pursuant to a Memorandum of Understanding entered into with all contributing companies. However, as stated in the terms of “Standards Use” online, the Chemical eStandards may be copied and distributed only in the form published and copyrighted and no permission is granted for any change or modification to the Chemical eStandards. Subsequent management of the Chemical eStandards is expected to be undertaken by the Chemical Industry Data Exchange Association (CIDX), which will own the Chemical eStandards. Neither the Chemical eStandards Association, nor CIDX can guarantee the accuracy, completeness, efficacy, timeliness, or correct sequencing of the Chemical eStandards. Use of the Chemical eStandards is voluntary, and reliance on them should be undertaken only after an independent review by the user. The Association, CIDX, and their officers, directors, employees and agents assume no responsibility for consequences resulting from the use of or reliance on the Chemical eStandards. Neither the Association, nor CIDX is responsible for, and each expressly disclaims all liability for, damage or loss of any kind arising out of the use of the standards, including but not limited to direct, indirect, consequential, or special damages of any type or from any copyright or patent infringement. No guarantees or warranties, including, but not limited to, any express or implied warranties of merchantability or fitness for a particular use or purpose, are made by the Association or CIDX in connection with the Chemical eStandards.

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7.1 Introduction and Scope of Effort

This section of the Chem eStandards document defines the data elements and exchange interfaces required to support the invoicing and payment processes between Marketplaces, participating companies, and Financial Institutions.

There are four basic transactions associated with the financial aspects of Chem eStandards:

Invoice	The Seller electronically initiates the Invoice transaction, either directly to the Buyer through the Financial Institution or through the Marketplace to request payment from a Buyer.
Payment	The Buyer electronically initiates a Payment transaction via a Financial Institution to satisfy a Seller's invoice either directly or through the Marketplace.
Payment Response	The Financial Institution initiates a Payment Response transaction to notify the Buyer that the payment file has been either received and validated or contains errors that need to be corrected.
Payment Detail	The Buyer electronically initiates a Payment Detail transaction to provide the Seller with detailed information to reconcile invoice(s) either directly or through the Marketplace.

7.1.1 Key Scope Assumptions

7.1.1.1 Invoice

- Sellers generate all invoices through their respective systems and transmitted electronically, either through Marketplaces or directly to Buyers (no paper copies).
- The provider of the Electronic Bill Presentment and Payment (EBPP) formats invoices that are transmitted via the Marketplace for viewing and/or printing.
- An invoice has at least one line item.
- Invoice amounts are expressed in one currency.
- Before an invoice can be processed, the Buyer must be previously defined within the Seller's system (customer database).

7.1.1.2 Payment

- Payment is the transfer of funds electronically (no checks) from Buyer to Seller, assuming proper approvals and authorizations.
- Participants have gone through the registration process either directly or through the Marketplace (including Financial Institution) to facilitate electronic payment.
- A Financial Institution is required to facilitate payment.
- Dispute handling is done between the Buyer and the Seller (Marketplaces are not involved, however they could provide a mechanism for Buyers and Sellers to communicate issues).

7.1.1.3 Payment Response

- Payment Response is the Buyer's notification that the Financial Institution received a complete file for payment transmittal.
- The Financial Institution informs the Buyer of incomplete and/or erroneous payment transmission details.
- Payment Response is an optional transaction based upon the Financial Institutions' ability to support this functionality.

7.1.1.4 Payment Detail

- Payment Detail is the transfer of the details of what invoices, line items, or business transaction a payment is covering.
- A remittance covers at least one transaction, invoice, or line item.
- The EBPP provider electronically transfers the remittance details to the Seller via the Financial Institution.

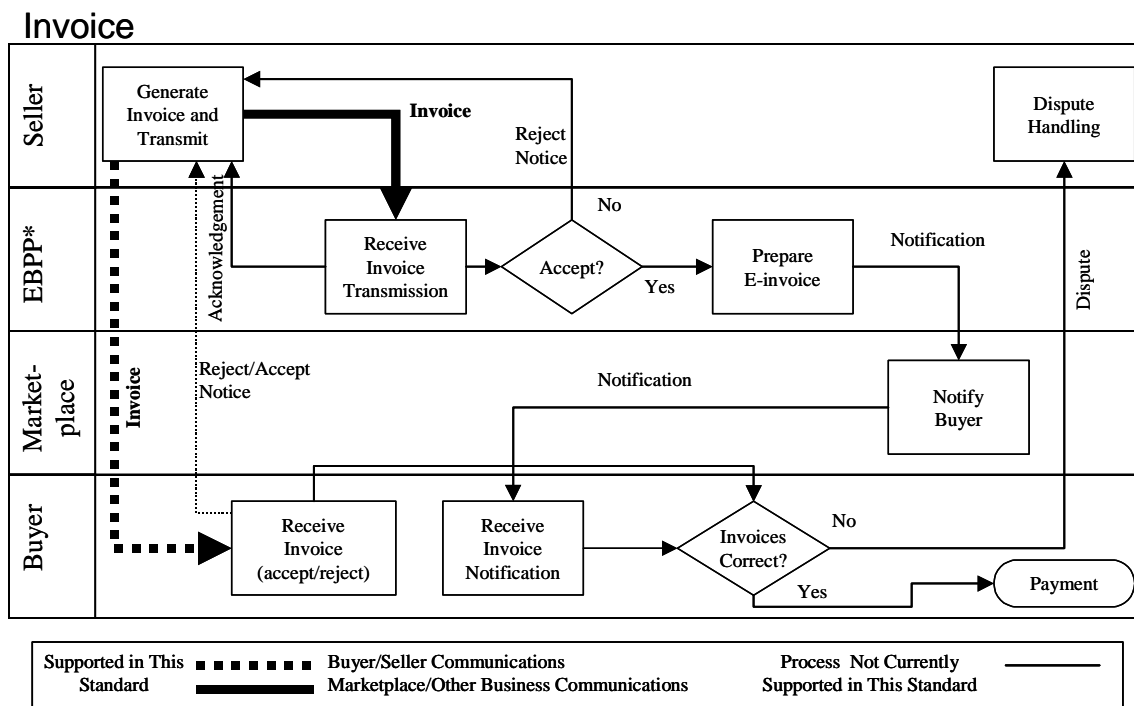
7.1.2 Key Business Model Assumption

There is an assumption that these and other financial transactions (e.g., bank-to-bank or Business-to-Business [B2B]) meet the financial services standards (e.g., Interactive Financial Exchange (IFX), National Automated Clearinghouse Association (NACHA)). There is no reason for any chemical industry standards body to rewrite established financial services standards.

7.2 Business Process Diagrams with Descriptions

7.2.1 Invoice

The business process model for the creation of an invoice from a Seller to a Buyer is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace/EBPP and the Seller. Dashed thick lines indicate direct Buyer to Seller transactions (communications can be via phone, fax, e-mail, browser, and use of the Chem eStandards). Dashed thin lines illustrate the communications directly between the Seller and Buyer. Solid thin lines illustrate the Marketplace/EBPP relationship to the Buyer (communications can be via phone, fax, e-mail, browser, and use of the Chem eStandards).



*Electronic Bill Presentation and Payment (EBPP)

The Invoice transaction is the mechanism by which a Seller participating in the Marketplace requests payment from a Buyer participating in the Marketplace.

7.2.1 Invoice, continued

The Invoice process is Seller-initiated. The Seller generates invoice detail from their system. Transmission of this invoice detail may be directly between the Seller and Buyer via a variety of methods. Transmission of this invoice detail from the Seller to the Buyer may also be through the Marketplace, acting as the EBPP or through an EBPP service linked to the Marketplace (the dotted line between the Marketplace and the EBPP illustrates this relationship). The EBPP service will manage the invoice process, notify the Buyer (most likely via e-mail) of outstanding invoices, and allow the Buyer to review Seller invoice(s) and approve or disapprove their payment(s). Approval ends the invoice process and proceeds to the payment process. Disapproval is likely handled by e-mail notification from the EBPP service to the Seller that a dispute exists. Dispute resolution is an off line process directly between the Buyer and Seller.

Marketplace Model	<p>If a Marketplace is acting as an EBPP or is linked to a third party EBPP service, then the Seller or selling organization creates invoice detail and sends this detail to a Marketplace.</p> <p>The Marketplace/EBPP manages the invoice process by formatting a standard invoice and notifying the Buyer. The EBPP processing accommodates either debit or credit invoicing.</p>
B2B Model	<p>In a B2B process, directly between Seller and Buyer, an invoice is created by the Seller and transmitted to the Buyer via a variety of methods.</p>

7.2.1.2 Scenarios for Invoice

An invoice is always Seller-initiated. There are four possible outcomes:

- Seller generates an invoice with single or multiple line item(s) and transmits the invoice to the Buyer, which the Buyer accepts in its entirety

The invoice may flow directly from the Seller to the Buyer or via the Marketplace/EBPP.

- Seller generates an invoice with multiple line item(s) and transmits the invoice to the Buyer, which is accepted in part

The invoice flows from the Seller to the Buyer. The Buyer rejects some of the line items and accepts other line items. If the flow is via the Marketplace/EBPP, notification of partial acceptance may occur in various forms (phone, fax, e-mail, etc.) or not at all. If the flow is direct between the Seller and Buyer, notification of partial acceptance may occur in various forms (phone, fax, e-mail, etc.) or not at all. If the concept of "Short Payment" is agreed upon by the Buyer and Seller, then the Marketplace/EBPP may process the invoice as accepted and the Seller could generate a new credit invoice correcting the billing. Any and all dispute handling and resolution is directly between the Seller and Buyer.

- Seller generates an invoice with single or multiple line item(s) and transmits the invoice to the Buyer, which the Buyer rejects in its entirety

7.2.1.2 Scenarios for Invoice, continued

The invoice flows from the Seller to the Buyer. The Buyer rejects the invoice in its entirety. If the flow is via the Marketplace/EBPP, notification of rejection may occur in various forms (phone, fax, e-mail, etc.). If the flow is direct between the Seller and Buyer, notification of rejection may occur in various forms (phone, fax, e-mail, etc.). Any and all dispute handling and resolution is directly between the Seller and Buyer.

- Seller generates an invoice with single or multiple line item(s) and transmits the invoice to the Buyer, and the Marketplace/EBPP rejects the transmission

The Marketplace/EBPP may reject a transmission of invoice(s) from the Seller. Most likely, this would be a result of electronic errors in transmission or non-standard format of the document(s). Immediate notification from the Marketplace/EBPP to the Seller is necessary. This communication may occur in various forms (phone, fax, e-mail, etc.).

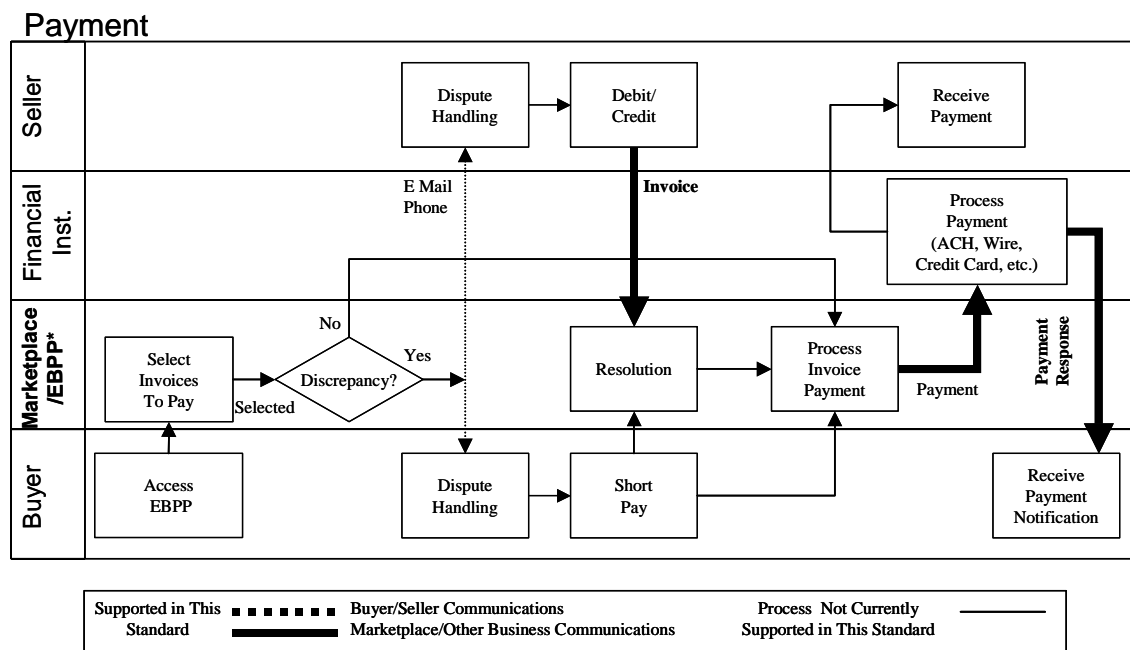
[Single-line Invoice Example Markup](#)

[Multi-line Invoice Example Markup](#)

7.2.2 Payment

7.2.2.1 Business Process Diagram with Descriptions

The business process model for the creation of a payment order from a Buyer to a Financial Institution is depicted in the following diagram. Solid thick lines illustrate the transaction between the Marketplace/EBPP and the Financial Institution. Solid thin lines illustrate the Buyer to Marketplace/EBPP. Dashed thick lines illustrate the Seller to Marketplace/EBPP transactions (communications can be via phone, fax, e-mail, etc.). Dashed thin lines indicate the direct Seller to Buyer interaction (communications can be via phone, fax, e-mail, etc.).



*Electronic Bill Presentation and Payment (EBPP)

The Payment transaction is the mechanism by which the payment(s) to a Seller, which are approved by the Buyer, is sent via the EBPP service to a Financial Institution, where the actual funds are transferred.

7.2.2.1 Business Process Diagram with Descriptions, *continued*

The Payment process is Buyer-initiated. The Buyer accesses the EBPP service and reviews the outstanding invoices. The Buyer approves part or all of the outstanding invoices managed by the EBPP service. Any discrepancies at this point goes to dispute handling directly between the Buyer and Seller (communications can be via phone, fax, email, etc.). Dispute resolution could result in “Short Pay” if this is an agreed upon option between the Buyer and Seller. Dispute resolution could also be the generation of a new credit\debit invoice by the Seller to the Buyer. The EBPP creates the Payment to the Financial Institution based on Buyer approval and authorization. Payment is processed using various agreed upon methods such as ACH, Wire transfers, credit card, etc. The Payment process is complete when the Seller has received the funds.

Marketplace Model	If a Marketplace is acting as an EBPP or is linked to a third party EBPP service, then the Buyer accesses the EBPP and approves payment to the Seller. The Marketplace/EBPP manages the process and forwards the payment information to the Financial Institution.
B2B Model	In a B2B process, directly between the Seller and Buyer, payment is a process utilizing established financial relationships between companies without the management of a third party EBPP service.

7.2.2.2 Scenarios for Payment

A payment is always Buyer-initiated. There are three possible outcomes:

- Buyer approves the invoices presented by the EBPP service and requests total payment to Seller. EBPP acts on Buyer authorization and forwards payment information to the Financial Institution

No discrepancy at this point keeps the process flow in the Marketplace/EBPP environment

- Buyer partially approves the invoices presented by the EBPP service and requests payment to the Seller of only the approved items. EBPP service acts on Buyer authorization and forwards only the approved payment information to the Financial Institution

Discrepancies and disputes are handled directly between the Buyer and Seller. Dispute resolution could be handled initially by a “Short Pay” option in which the Seller agrees to accept partial payment. When final dispute resolution is reached between the Buyer and Seller, the Seller could then generate new credit invoice detail to the Buyer.

- Buyer rejects the invoices presented by the EBPP in entirety. No payment is approved, authorized, or sent to the Financial Institution

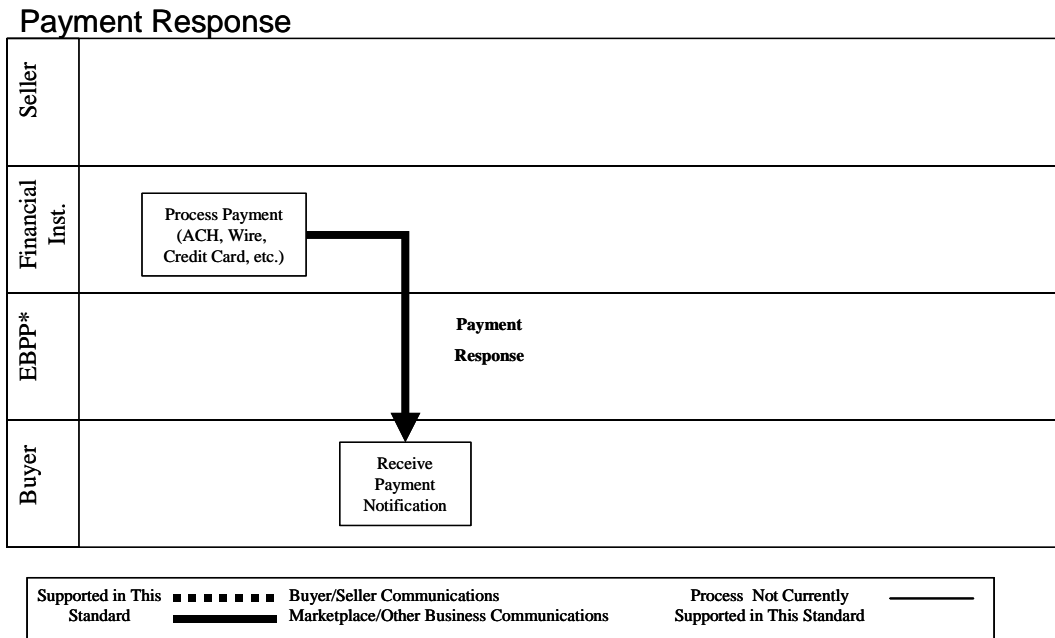
Discrepancies and disputes are handled directly between the Buyer and Seller. If and when final dispute resolution is reached between the Buyer and Seller, the Seller could then generate new credit/debit invoice detail to the Buyer.

[Payment Example Markup](#)

7.2.3 Payment Response

7.2.3.1 Business Process Diagram with Descriptions

The business process model for the creation of a Payment Response from a Financial Institution via Marketplace/EBPP to a Buyer is depicted in the following diagram. The solid thick line illustrates the transaction between the Financial Institution and the Buyer. The dashed line between the EBPP service and the Financial Institution indicates the possibility that the Financial Institution is also providing the EBPP service. This transaction is optional for the Financial Institutions.



*Electronic Bill Presentation and Payment (EBPP)

The Payment Response transaction is the mechanism by which a Financial Institution via a Marketplace/EBPP may transmit acknowledgment of a payment request from a Buyer participating in the Marketplace/EBPP.

7.2.3.1 Business Process Diagram with Descriptions, *continued*

The Payment Response process is triggered by the receipt of an authorized payment(s) from a Buyer. The Financial Institution processes the initial request, generates an acknowledgment reflecting either payment detail with no errors, or payment detail including errors accompanied by textual explanations of those errors. If the entire payment request is in error, the acknowledgment reflects rejection of the entire payment.

Marketplace Model	If a Financial Institution is acting as an EBPP or is linked to a third party EBPP service, it may provide payment acknowledgment to the Buyer.
B2B Model	In a B2B process, directly between the Financial Institution and the Buyer, payment acknowledgment is an optional process utilizing established financial relationships without the management of a third party EBPP service.

7.2.3.2 Scenarios for Payment Response

The Financial Institution always initiates a Payment Response. There are three possible outcomes:

- Financial Institution does not send this optional transaction
- Financial Institution generates Payment Response and sends the transaction directly to the Buyer

Payment Response may reflect total acceptance of the original request to the Financial Institution, acceptance with some errors in the request, or rejection of the entire request.

- Financial Institution generates Payment Response and sends the transaction through the EBPP/Marketplace to the Buyer

Payment Response may reflect total acceptance of the original request to the Financial Institution, acceptance with some errors in the request, or rejection of the entire request.

In a prior agreement between the Financial Institution and the Buyer, the transmission of this optional transaction can be tailored to the needs of the Buyer. Transmission can be made dependent on the existence of errors or rejection only, so that no acknowledgment is transmitted if the original request is accepted in its entirety. This transaction can be sent for each payment request to the Financial Institution, reflecting data acceptance, partial acceptance with errors, or rejection of request.

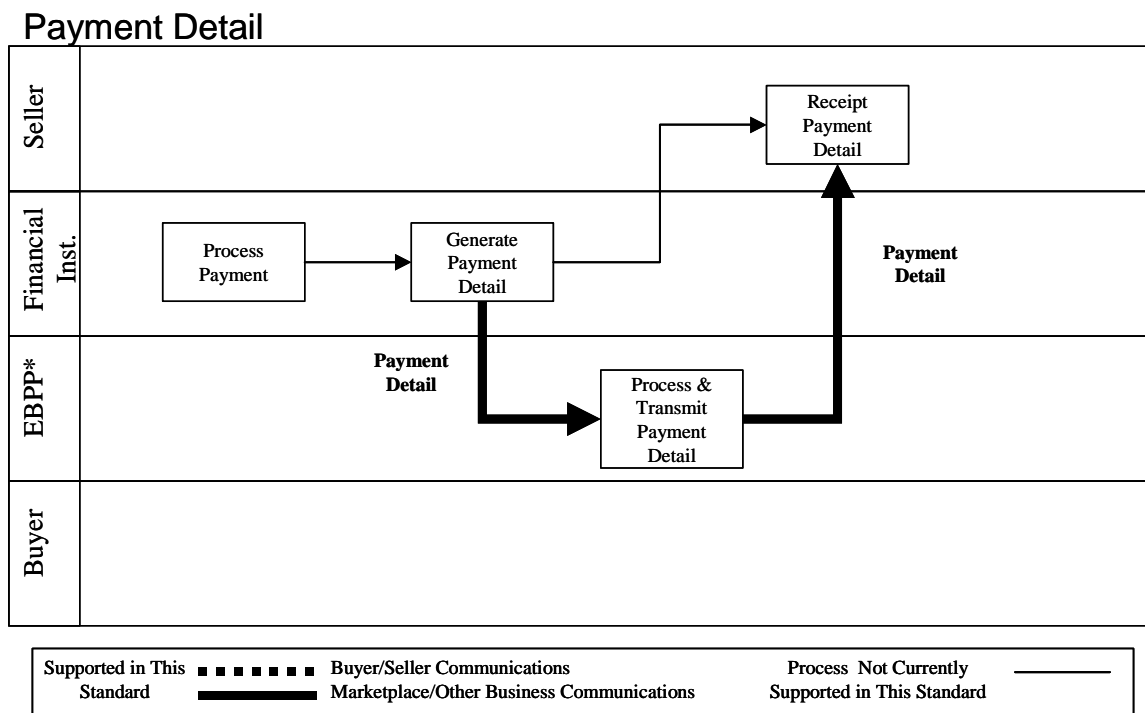
[Payment Response - Clean Example Markup](#)

[Payment Response – Error Example Markup](#)

7.2.4 Payment Detail

7.2.4.1 Business Process Diagram with Descriptions

The business process model for the creation of payment detail from a Financial Institution to the Seller is depicted in the following diagram. Solid thick lines illustrate the transaction between the Financial Institution through the EBPP/Marketplace to the Seller. Solid thin lines illustrate the Financial Institution to Seller. The dashed line between the EBPP/Marketplace and the Financial Institution is indicative of the possibility that the EBPP service is provided by the Financial Institution.



The Payment Detail transaction is the mechanism by which a Seller participating in the Marketplace receives payment detail from a Financial Institution/EBPP participating in the Marketplace.

7.2.4.1 Business Process Diagram with Descriptions, *continued*

The Payment Detail process is initiated by a Financial Institution. The Seller's Financial Institution generates payment detail from the processed payments made to the Seller. The processed payments could be from a "bank-to-bank" interaction, Buyer and Seller within the same Financial Institution, or even a third party Financial Institution such as an EBPP provider. The content of the Payment Detail is driven by what the Seller needs to receive in order to reconcile accounts receivable. For instance, if a "Short Pay" option is used by the Buyer, the payment detail reflects the adjustments made to the original invoice amount.

Marketplace Model	A Financial Institution, either directly or through an EBPP/Marketplace, sends a payment detail transaction to the Seller. Since this is an optional transaction, the EBPP/Marketplace could offer this as a value-added service.
B2B Model	In a B2B process, directly between the Financial Institution and the Seller, payment detail is an optional process utilizing established financial relationships without the management of a third party EBPP service.

7.2.4.2 Scenarios for Payment Detail

If this transaction is used, the Financial Institution always initiates a payment detail. There are four possible outcomes:

- The Financial Institution generates payment (remittance) detail, which is forwarded directly to the Seller
This would most likely occur as a result of the Seller's Financial Institution being different from the Buyer's Financial Institution and/or not participating in a Marketplace. This detail can be sent via a variety of methods including the use of this Chem eStandards.
- The Financial Institution generates payment (remittance) detail which is forwarded to the Seller via an EBPP/Marketplace

The flow of payment detail through the EBPP/Marketplace allows for additional Buyer detail to be included if the EBPP/Marketplace chooses to provide this service.

- The Financial Institution generates payment (remittance) detail, which is forwarded to the reconciliation entity for the Seller.

This is the scenario that includes the various Marketplaces that offer "one-stop shopping" services to businesses. These Marketplaces would be able to manage the entire reconciliation cycle from invoice to payment detail with minimal Seller interaction.

- No payment detail is generated by the Financial Institution

Some Sellers will not require the payment detail to reconcile their accounts receivable. The optional nature of this transaction within the Chem eStandards allows for flexible usage by the Sellers.

[Single Line Payment Detail Example Markup](#)

[Multiple Line Payment Detail Example Markup](#)

7.3 Invoice

7.3.1 Release Information

Jan. 2001	Expanded Release v2.0
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7.3.2 Invoice Data Model

The following diagrams show the graphical representation of the Invoice Data Model:

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

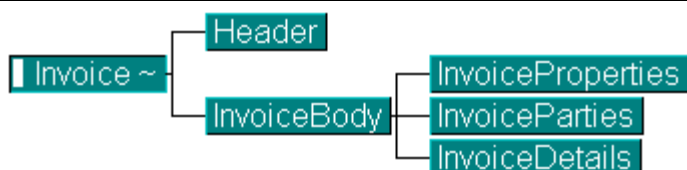


Figure 7.3.2.a: The InvoiceBody structure of the invoice transaction consists of three sections: InvoiceProperties, InvoicePartners, and InvoiceDetails.

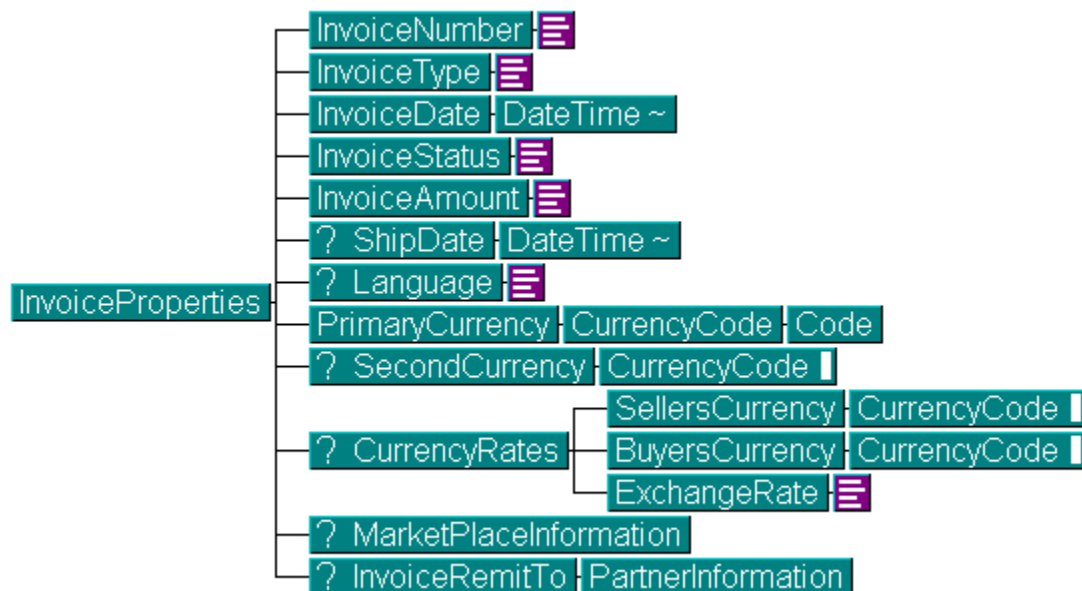
7.3.2 Invoice Data Model, *continued*

Figure 7.3.2.b: InvoiceProperties denote global invoice information (i.e., invoice status, ship date, language, currencies, exchange rate, Marketplace data, and remittance information) which apply to the entire invoice. MarketplaceInformation identifies the Marketplace and parties involved with the transaction as well as the Marketplaces's reference information for the transaction.

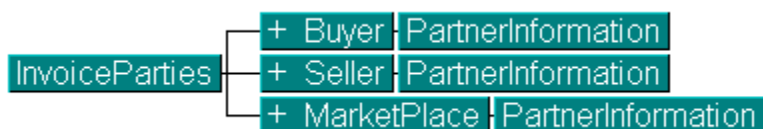


Figure 7.3.2.c: InvoicePartners structure

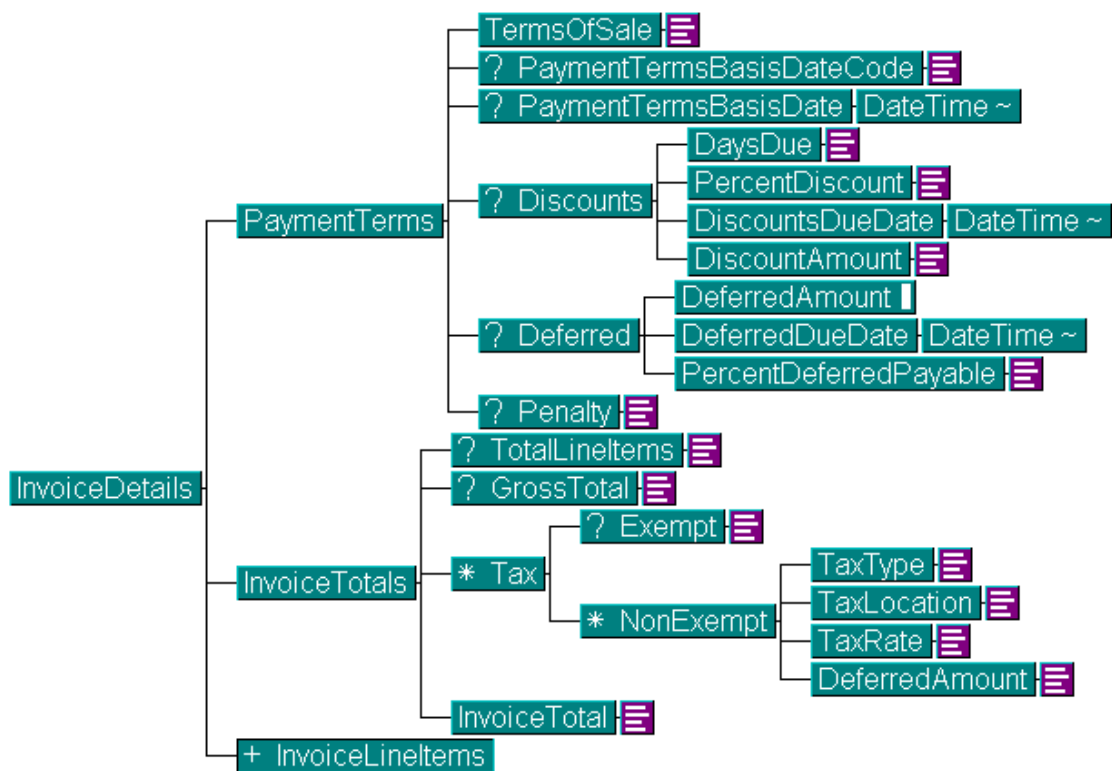
7.3.2 Invoice Data Model, *continued*

Figure 7.3.2.d: InvoiceDetails structure describe individual line item activity and corresponding totals. PaymentTerms identify payment terms including applicable discounts, due dates, and other payment-related agreements between the Seller and Buyer. InvoiceTotals contains the total number of line items, gross total of all line items, tax information, and the invoice total; which is the gross total plus any tax due.

7.3.2 Invoice Data Model, continued

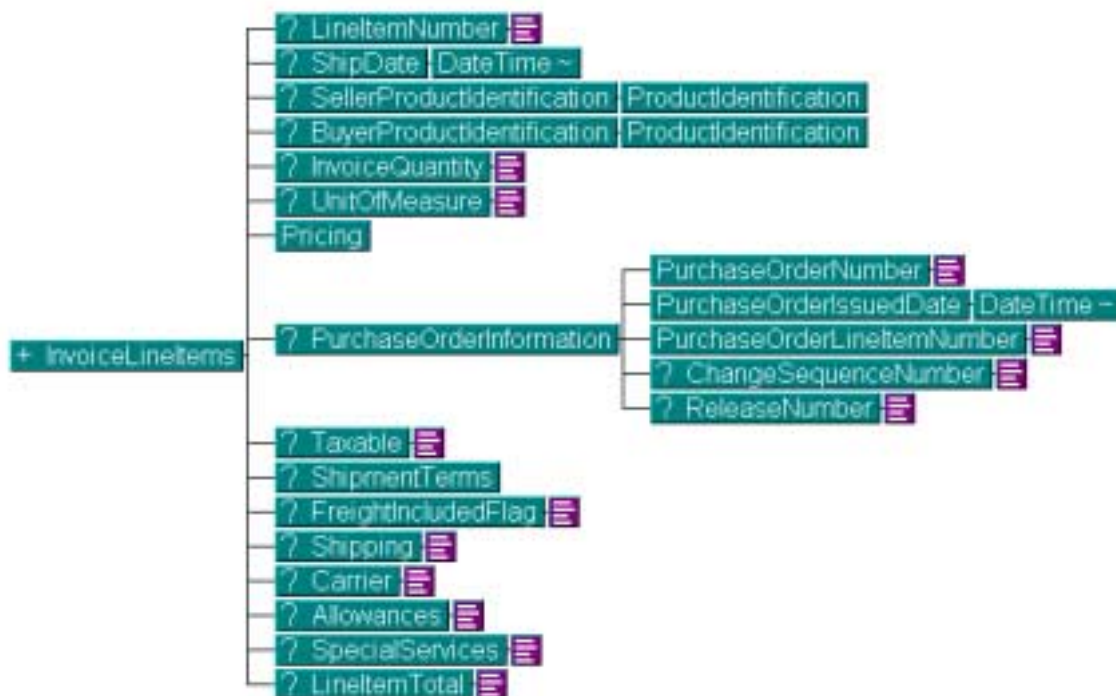


Figure 7.3.2.e: InvoiceLineItems structure

7.3.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Invoice business transaction:

Invoice Properties:

Element (E)/Structure (S)	Notes
InvoiceType (E)	Debit or Credit
InvoiceStatus (E)	Original, Pro Forma, Commercial, etc.
PrimaryCurrency (S)	Used in such cases as Europe, where they are transitioning to the Euro and are used in conjunction with the SecondaryCurrency to report financials in their own country
SecondaryCurrency (S)	Used in such cases as Europe, where they are transitioning to the Euro and are used in conjunction with the PrimaryCurrency to report financials in their own country

Invoice Details:

Element (E)/Structure (S)	Notes
TermsOfSale (E)	Textual description of terms of sale
PaymentTermsBasisDateCode (E)	Code table qualifies the terms basis date (e.g., shipped)
PaymentTermsBasisDate (S)	Date from which terms begin
Discounts (S)	Discount for early payment
DaysDue (E)	Number of days for the duration of the discount
DiscountsDueDate (S)	Date upon which the discount ends
DeferredAmount (E)	Amount withheld from total invoice amount
DeferredDueDate (S)	When the deferred amount is due and payable
PercentDeferredPayable (E)	Balance less deferred amount
Penalty (E)	Percentage levied against invoice balance due to late payment
Shipping (E)	Represents shipping charges
Allowances (E)	Deduction for any special circumstance negotiated between the Buyer and Seller
SpecialServices (E)	Any special circumstances negotiated between the Buyer and Seller including palletizing, shrink wrap, etc.
GrossTotal (E)	Invoice total of all line items before tax
InvoiceTotal (E)	Total amount of invoice

7.3.4 Example Markup

The following are examples of the Invoice business transaction:

7.3.4.1 Single Line Invoice

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>Your State</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code>001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12- 3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> </pre>	

7.3.4.1 Single Line Invoice, continued

Example Markup	Annotation
<pre> <Code Domain="DUNS">88888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code>1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98- 7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> </Header> </pre>	
<pre> <InvoiceProperties> <InvoiceNumber>AB12345</InvoiceNumber> <InvoiceType>Debit</InvoiceType> <InvoiceDate> <DateTime TimeZone="EST">20001205T1300</DateTime> </InvoiceDate> <InvoiceStatus>Original</InvoiceStatus> <InvoiceAmount>10000.00</InvoiceAmount> <ShipDate> <DateTime TimeZone="EST">20001225T0600</DateTime> </ShipDate> <MarketPlaceInformation> <MarketPlaceIdentifier> <Code Domain="DUNS">66666666</Code> </MarketPlaceIdentifier> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>ab12345</DocumentIdentifier> </DocumentReference> <MarketplacesellerIdentifier> <Code Domain="DUNS">99999999</Code> </MarketplacesellerIdentifier> <MarketPlaceBuyerIdentifier> <Code Domain="DUNS">88888888</Code> </MarketPlaceBuyerIdentifier> </MarketPlaceInformation> <InvoiceRemitTo> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> </PartnerInformation> </InvoiceRemitTo> </pre>	

7.3.4.1 Single Line Invoice, continued

Example Markup	Annotation
<pre> <PartnerIdentifier PartnerRole="Seller" <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>PA</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99- 8888888</TaxIdentifierNumber> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </InvoiceRemitTo> </InvoiceProperties> </pre>	
<pre> <InvoicePartners> <Buyer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">632987123</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Smith</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>217</AreaCode> <PhoneNumber>789-1530</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> </pre>	

7.3.4.1 Single Line Invoice, continued

Example Markup	Annotation
<pre> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>PA</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99- 8888888</TaxIdentifierNumber> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </Seller> </InvoicePartners> </pre>	
<pre> <InvoiceDetails> <PaymentTerms> <TermsOfSale>Net30</TermsOfSale> <PaymentTermsBasisDateCode>1</PaymentTermsBasisDateCode> <PaymentTermsBasisDate> <DateTime TimeZone="EST">20001225T0600</DateTime> </PaymentTermsBasisDate> <Penalty>.06</Penalty> </PaymentTerms> <InvoiceLineItems> <LineItemNumber>1</LineItemNumber> <ShipDate> <DateTime TimeZone="EST">20001225T0600</DateTime> </ShipDate> <SellerProductIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription>IPA</ProductDescription> </ProductIdentification> </SellerProductIdentification> <BuyerProductIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription>IPA</ProductDescription> </ProductIdentification> </BuyerProductIdentification> <InvoiceQuantity>10000</InvoiceQuantity> <UnitOfMeasure>lbs</UnitOfMeasure> <Pricing> <MonetaryAmount>10000</MonetaryAmount> </Pricing> </InvoiceLineItems> </InvoiceDetails> </pre>	

7.3.4.1 Single Line Invoice, continued

Example Markup	Annotation
<pre> <PriceBasis>lbs</PriceBasis> <PriceReason>catalog</PriceReason> </Pricing> <PurchaseOrderInformation> <PurchaseOrderNumber>543267</PurchaseOrderNumber> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001205T1300</DateTime> </PurchaseOrderIssuedDate> <PurchaseOrderLineNumber>1</PurchaseOrderLineNumber> <ReleaseNumber>2</ReleaseNumber> </PurchaseOrderInformation> <Taxable>N</Taxable> <ShipmentTerms> <ShipmentTermsCode> <Code>FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>GATX</ShipmentTermsLocation> </ShipmentTerms> <FreightIncludedFlag>N</FreightIncludedFlag> <Carrier>Moonshadow Trucking</Carrier> <LinItemTotal>10000.00</LinItemTotal> </InvoiceLinItems> <InvoiceTotals> <TotalLinItems>1</TotalLinItems> <GrossTotal>10000.00</GrossTotal> <Tax> <Exempt>Y</Exempt> </Tax> <InvoiceTotal>10000.00</InvoiceTotal> </InvoiceTotals> </InvoiceDetails> </pre>	

7.3.4.2 Multiple Line Invoice

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber Type=""> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>Your State</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code>001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12- 3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">888888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> </ContactInformation> </PartnerInformation> </To> </pre>	

7.3.4.2 Multiple Line Invoice, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code>1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98- 7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> </Header> </pre>	
<pre> <InvoiceProperties> <InvoiceNumber>AB12345</InvoiceNumber> <InvoiceType>Debit</InvoiceType> <InvoiceDate> <DateTime TimeZone="EST">20001205T1300</DateTime> </InvoiceDate> <InvoiceStatus>Original</InvoiceStatus> <InvoiceAmount>20000.00</InvoiceAmount> <ShipDate> <DateTime TimeZone="EST">20001225T0700</DateTime> </ShipDate> <MarketPlaceInformation> <MarketPlaceIdentifier> <Code Domain="DUNS">666666666</Code> </MarketPlaceIdentifier> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>ab12345</DocumentIdentifier> </DocumentReference> <MarketplacesellerIdentifier> <Code Domain="DUNS">999999999</Code> </MarketplacesellerIdentifier> <MarketPlaceBuyerIdentifier> <Code Domain="DUNS">888888888</Code> </MarketPlaceBuyerIdentifier> </MarketPlaceInformation> <InvoiceRemitTo> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> </PartnerInformation> </InvoiceRemitTo> </pre>	

7.3.4.2 Multiple Line Invoice, continued

Example Markup	Annotation
<pre> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>PA</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99- 8888888</TaxIdentifierNumber> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </InvoiceRemitTo> </InvoiceProperties> </pre>	
<pre> <InvoicePartners> <Buyer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">632987123</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Smith</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>217</AreaCode> <PhoneNumber>789-1530</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> </pre>	

7.3.4.2 Multiple Line Invoice, continued

Example Markup	Annotation
<pre> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>PA</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99- 8888888</TaxIdentifierNumber> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </Seller> </InvoicePartners> </pre>	
<pre> <InvoiceDetails> <PaymentTerms> <TermsOfSale>Net30</TermsOfSale> <PaymentTermsBasisDateCode>1</PaymentTermsBasisDateCode> <PaymentTermsBasisDate> <DateTime TimeZone="EST">20001225T0600</DateTime> </PaymentTermsBasisDate> <Penalty>.06</Penalty> </PaymentTerms> <InvoiceLineItems> <LineItemNumber>1</LineItemNumber> <ShipDate> <DateTime TimeZone="EST">20001225T0700</DateTime> </ShipDate> <InvoiceQuantity>1000</InvoiceQuantity> <UnitOfMeasure>lbs</UnitOfMeasure> <Pricing> <MonetaryAmount>1.00</MonetaryAmount> <PriceBasis>lbs</PriceBasis> <PriceReason>catalog</PriceReason> </Pricing> <PurchaseOrderInformation> <PurchaseOrderNumber>647398</PurchaseOrderNumber> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001205T1300</DateTime> </PurchaseOrderIssuedDate> <PurchaseOrderLineItemNumber>2</PurchaseOrderLineItemNumber> <ReleaseNumber>2</ReleaseNumber> </PurchaseOrderInformation> <Taxable>N</Taxable> <ShipmentTerms> <ShipmentTermsCode> <Code>FOB</Code> </ShipmentTermsCode> </pre>	

7.3.4.2 Multiple Line Invoice, continued

Example Markup	Annotation
<pre> <ShipmentTermsLocation>GATX</ShipmentTermsLocation> </ShipmentTerms> <FreightIncludedFlag>N</FreightIncludedFlag> <Carrier>Moonshadow Trucking</Carrier> <LineItemTotal>10000.00</LineItemTotal> </InvoiceLineItems> <InvoiceLineItems> <LineItemNumber>2</LineItemNumber> <ShipDate> <DateTime TimeZone="EST">20001225T0700</DateTime> </ShipDate> <InvoiceQuantity>1000</InvoiceQuantity> <UnitOfMeasure>lbs</UnitOfMeasure> <Pricing> <MonetaryAmount>1.00</MonetaryAmount> <PriceBasis>lbs</PriceBasis> <PriceReason>catalog</PriceReason> </Pricing> <PurchaseOrderInformation> <PurchaseOrderNumber>543267</PurchaseOrderNumber> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001205T1300</DateTime> </PurchaseOrderIssuedDate> <PurchaseOrderLineItemNumber>1</PurchaseOrderLineItemNumber> <ReleaseNumber>2</ReleaseNumber> </PurchaseOrderInformation> <Taxable>N</Taxable> <ShipmentTerms> <ShipmentTermsCode> <Code>FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>GATX</ShipmentTermsLocation> </ShipmentTerms> <FreightIncludedFlag>N</FreightIncludedFlag> <Carrier>Moonshadow Trucking</Carrier> <LineItemTotal>10000.00</LineItemTotal> </InvoiceLineItems> <InvoiceTotals> <TotalLineItems>2</TotalLineItems> <GrossTotal>20000.00</GrossTotal> <Tax> <Exempt>Y</Exempt> </Tax> <InvoiceTotal>20000.00</InvoiceTotal> </InvoiceTotals> </InvoiceDetails> </pre>	

7.4 Payment

7.4.1 Release Information

Jan. 2001	Expanded Release, v2.0
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7.4.2 Payment Data Model

The following diagrams show the graphical representation of the Payment Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

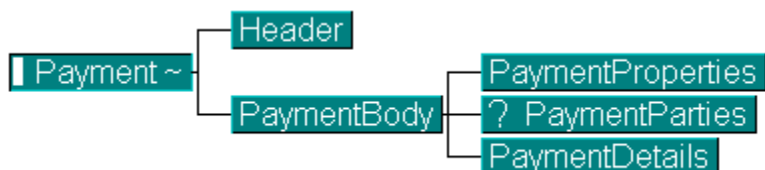


Figure 7.4.2.a: The PaymentBody structure of the payment transaction consists of three sections: PaymentProperties, PaymentDetails, and PaymentPartners.



Figure 7.4.2.b: PaymentProperties are the Payer's/Buyer's unique transaction number (i.e., check number), whether it is a debit or a credit, and method of payment (i.e., ACH, credit card), which applies to the entire payment.

7.4.2 Payment Data Model, *continued*

Figure 7.4.2.c: The PaymentPartners are the Buyer, Seller, and Marketplace address and contact information for the parties to the transaction.

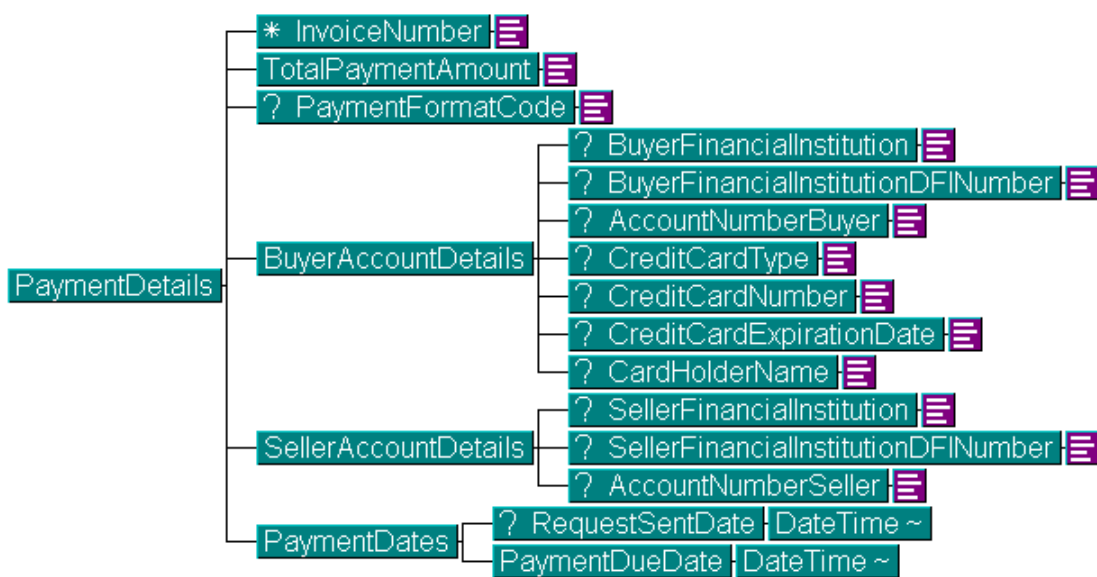


Figure 7.4.2.d: PaymentDetails provides the Financial Institution with payment amount, Payer/Buyer and Seller account information, and payment date.

7.4.3 Data Elements and Attributes

The following table lists the data elements and attributes for Payment business transaction:

Payment Properties:

Element (E) / Structure (S)	Notes
BuyerTransactionNumber (E)	Unique identifier of the payer transaction (e.g., check number)
CreditDebitFlagCode (E)	Code identifying whether the transaction is a debit or credit

Payment Details:

Element (E)/Structure (S)	Notes
PaymentFormatCode (E)	Format which payer will use to transmit payment
BuyerFinancialInstitutionDFINumber (E)	Bank identifier number
CreditCardType (E)	Only for use when credit card is used
CreditCardNumber (E)	Only for use when credit card is used
CreditCardExpirationDate (E)	Only for use when credit card is used
CardHolderName (E)	Only for use when credit card is used
SellerFinancialInstitutionDFINumber (E)	Bank identifier number
RequestSentDate (S)	Date payment request sent to bank
PaymentDueDate (S)	Date payment is to be made

7.4.4 Example Markup

The following are examples of the Payment business transaction:

7.4.4.1 Payment

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>Your State</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code>001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12- 3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> </pre>	

7.4.4.1 Payment, continued

Example Markup	Annotation
<pre> <Code Domain="DUNS">88888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code>1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98- 7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> </Header> </pre>	
<pre> <PaymentProperties> <BuyerTransactionNumber>1234098</BuyerTransactionNumber> <CreditDebitFlagCode>DR</CreditDebitFlagCode> <PaymentMethod>ACH</PaymentMethod> </PaymentProperties> </pre>	
<pre> <PaymentPartners> <Buyer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">632987123</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Smith</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>217</AreaCode> <PhoneNumber>789-1530</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> </AddressInformation> </PartnerInformation> </Buyer> </PaymentPartners> </pre>	

7.4.4.1 Payment, continued

Example Markup	Annotation
<pre> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>PA</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99- 8888888</TaxIdentifierNumber> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </Seller> </PaymentPartners> </pre>	
<pre> <PaymentDetails> <InvoiceNumber>128743</InvoiceNumber> <TotalPaymentAmount>10000.00</TotalPaymentAmount> <PaymentFormatCode>CCD</PaymentFormatCode> <BuyerAccountDetails> <BuyerFinancialInstitution>Chase Bank</BuyerFinancialInstitution> <BuyerFinancialInstitutionDFINumber>021000021</BuyerFinancialInstitutionDFINum ber> <AccountNumberBuyer>238435987</AccountNumberBuyer> </BuyerAccountDetails> <SellerAccountDetails> <SellerFinancialInstitution>Citibank</SellerFinancialInstitution> <SellerFinancialInstitutionDFINumber>021000089</SellerFinancialInstitutionDFINum ber> <AccountNumberSeller>756940392</AccountNumberSeller> </SellerAccountDetails> <PaymentDates> <RequestSentDate> <DateTime>20011225T0600</DateTime> </RequestSentDate> <PaymentDueDate> <DateTime>20010125T0600</DateTime> </PaymentDueDate> </PaymentDates> </PaymentDetails> </pre>	

7.5 Payment Response

7.5.1 Release Information

Jan. 2001	Expanded Release, v2.0
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7.5.2 Payment Response Data Model

The following diagrams show the graphical representation of the Payment Response Data Model:

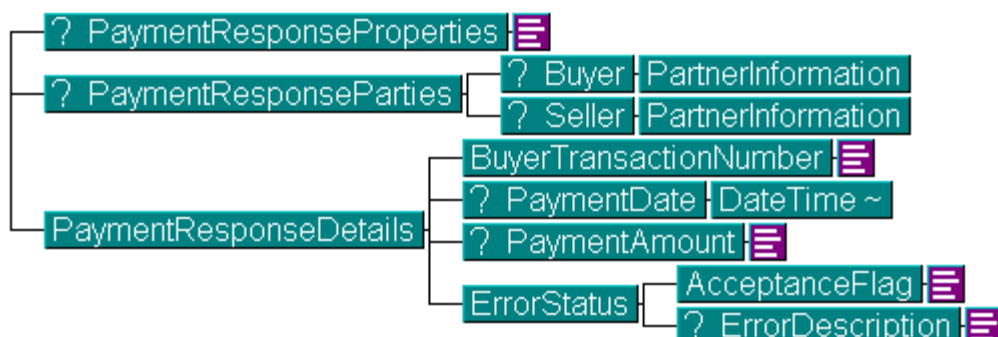
Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 7.5.2.a: PaymentResponse structure

7.5.2 Payment Response Data Model, continued

7.5.2.b: PaymentResponseProperties, PaymentResponsePartners, and PaymentResponseDetails structures

7.5.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Payment Response business transaction:

Payment Response Details:

Element (E)/Structure (S)	Notes
BuyerTransactionNumber (E)	Unique identifier of the payer transaction (e.g., check number)
PaymentDate (S)	Date payment is to be made
AcceptanceFlag (E)	Yes or No flag to show whether payment information is acceptable and payment is able to be made by the Financial Institution

7.5.4 Example Markup

The following are examples of the Payment Response business transaction:

7.5.4.1 Payment Response - Clean

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>Your State</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>US</PostalCountry> <LocationCode> <Code>001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12- 3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> </pre>	

7.5.4.1 Payment Response - Clean, continued

Example Markup	Annotation
<pre> <Code Domain="DUNS">88888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code>1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98- 7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> <URL>www.sample.net</URL> </PartnerInformation> </To> </Header> </pre>	
<pre> <PaymentResponsePartners> <Buyer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">632987123</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Smith</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>217</AreaCode> <PhoneNumber>789-1530</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Buyer> <Seller> </pre>	

7.5.4.1 Payment Response - Clean, continued

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>PA</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99- 8888888</TaxIdentifierNumber> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </Seller> </PaymentResponsePartners> </pre>	
<pre> <PaymentResponseDetails> <BuyerTransactionNumber>9834759</BuyerTransactionNumber> <PaymentDate> <DateTime/>20001205T1402 </PaymentDate> <PaymentAmount>10000.00</PaymentAmount> <ErrorStatus> <AcceptanceFlag>Y</AcceptanceFlag> </ErrorStatus> </PaymentResponseDetails> </pre>	

7.5.4.2 Payment Response - Error

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>Your State</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>US</PostalCountry> <LocationCode> <Code>001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12- 3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">888888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> </ContactInformation> </PartnerInformation> </To> </pre>	

7.5.4.2 Payment Response - Error, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>US</PostalCountry> <LocationCode> <Code>1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98- 7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> </Header> </pre>	
<pre> <PaymentAcknowledgmentPartners> <Buyer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">632987123</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Smith</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>217</AreaCode> <PhoneNumber>789-1530</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> </PartnerInformation> </Seller> </PaymentAcknowledgmentPartners> </pre>	

7.5.4.1 Payment Response - Error, continued

Example Markup	Annotation
<pre> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>PA</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99- 8888888</TaxIdentifierNumber> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </Seller> </PaymentAcknowledgmentPartners> </pre>	
<pre> <PaymentResponseDetails> <BuyerTransactionNumber>9834759</BuyerTransactionNumber> <PaymentDate> <DateTime/>20001205T1403 </PaymentDate> <PaymentAmount>10000.00</PaymentAmount> <ErrorStatus> <AcceptanceFlag>N</AcceptanceFlag> <ErrorDescription>NSF</ErrorDescription> </ErrorStatus> </PaymentResponseDetails> </pre>	

7.6 Payment Detail

7.6.1 Release Information

Jan. 2001	Expanded Release, v2.0
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7.6.2 Payment Detail Data Model

The following diagrams show the graphical representation of the Payment Detail Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



7.6.2.a: PaymentDetail structure

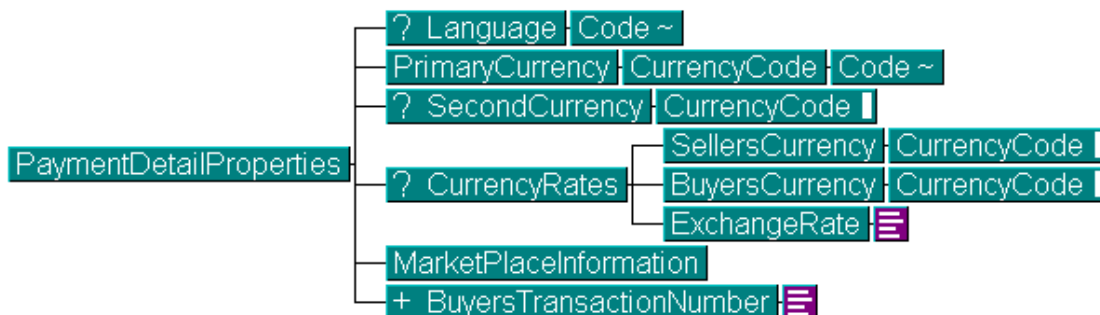


Figure 7.6.2.b: PaymentDetailProperties structure

7.6.2 Payment Detail Data Model, continued



Figure 7.6.2.c: PaymentDetailPartners structure

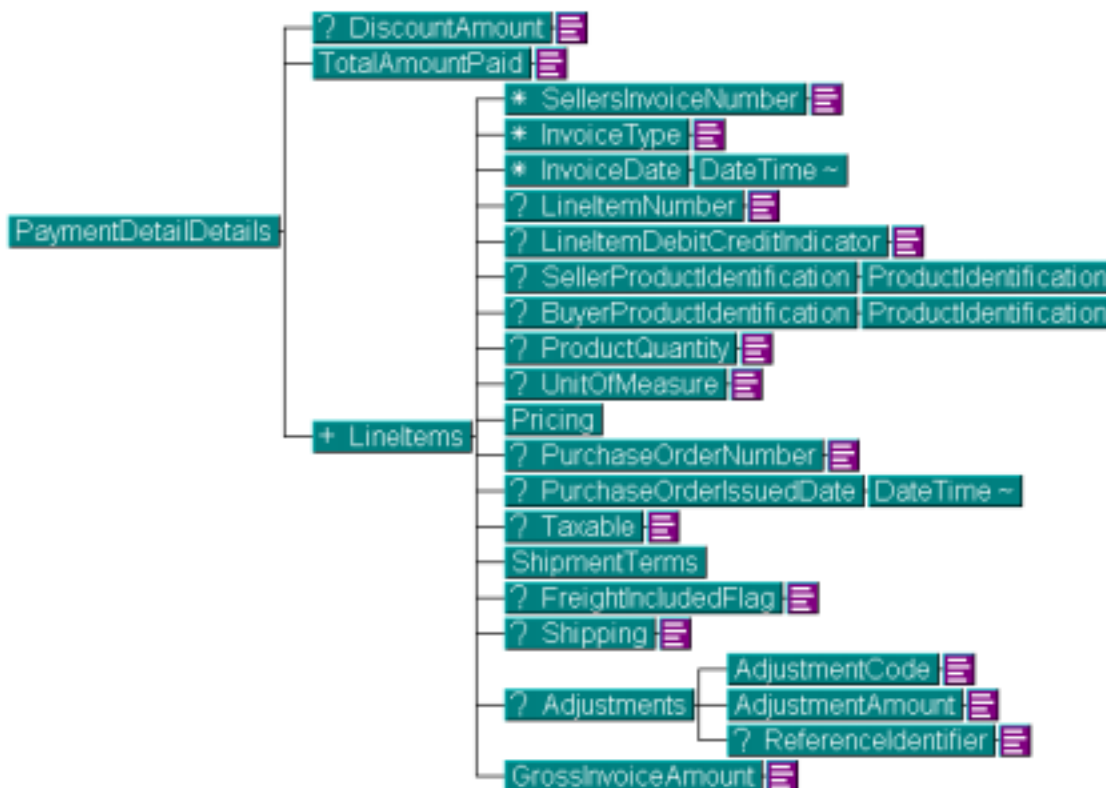


Figure 7.6.2.d: PaymentDetailDetails structure

7.6.3 Data Elements and Attributes

Payment Detail Properties:

The following table lists the data elements and attributes for the Payment Detail Properties business transaction:

Element (E)/Structure (S)	Notes
PrimaryCurrency (S)	Used in such cases as Europe, where they are transitioning to the Euro and are used in conjunction with the SecondaryCurrency to report financials in their own country
SecondaryCurrency (S)	Used in such cases as Europe, where they are transitioning to the Euro and are used in conjunction with the PrimaryCurrency to report financials in their own country
BuyersTransactionNumber (E)	Unique identifier of the payer transaction (e.g., check number)

Payment Detail Details:

The following table lists the data elements and attributes for the Payment Detail Details business transaction:

Element (E)/Structure (S)	Notes
InvoiceType (E)	Debit or Credit

7.6.4 Example Markup

The following are examples of the Payment Detail business transaction:

7.6.4.1 Single Line Payment Detail

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>Your State</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>US</PostalCountry> <LocationCode> <Code>001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12- 3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> </pre>	

7.6.4.1 Single Line Payment Detail, continued

Example Markup	Annotation
<pre> <Code Domain="DUNS">88888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>USA</PostalCountry> <LocationCode> <Code>1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98- 7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> </Header> </pre>	
<pre> <PaymentDetailProperties> <Language> <Code Domain="ISO">ENG</Code> </Language> <BuyersTransactionNumber>983754</BuyersTransactionNumber> <MarketPlaceInformation> <MarketPlaceIdentifier> <Code Domain="DUNS">66666666</Code> </MarketPlaceIdentifier> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>ab12345</DocumentIdentifier> </DocumentReference> <MarketplacesellerIdentifier> <Code Domain="DUNS">99999999</Code> </MarketplacesellerIdentifier> <MarketPlaceBuyerIdentifier> <Code Domain="DUNS">88888888</Code> </MarketPlaceBuyerIdentifier> </MarketPlaceInformation> </PaymentDetailProperties> </pre>	

7.6.4.1 Single Line Payment Detail, continued

Example Markup	Annotation
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7.6.4.1 Single Line Payment Detail, continued

Example Markup	Annotation
<pre> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>313</AreaCode> <PhoneNumber>222-2222</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>321 bankstreet</AddressLine> <CityName>Bankcity</CityName> <StateProvince>Bankstate</StateProvince> <PostalCode>33333-4444</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </BuyerFinancialInstitution> <SellerFinancialInstitution> <PartnerInformation> <PartnerName>Seller's Bank</PartnerName> <PartnerIdentifier PartnerRole="R/N Value"> <Code Domain="DUNS">666666666</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mario Cuomo</ContactName> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>999-9999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>3254 StreetName</AddressLine> <CityName>New York</CityName> <StateProvince>NY</StateProvince> <PostalCode>12345-0987</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </SellerFinancialInstitution> </PaymentDetailPartners> </pre>	
<pre> <PaymentDetailDetails> <LinItems> <SellersInvoiceNumber>54321</SellersInvoiceNumber> <InvoiceType>Debit</InvoiceType> <InvoiceDate> <DateTime TimeZone="EST">20001225T0600</DateTime> </InvoiceDate> <LinItemNumber>1</LinItemNumber> <LinItemDebitCreditIndicator>DR</LinItemDebitCreditIndicator> <SellerProductIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription>IPA</ProductDescription> </ProductIdentification> </SellerProductIdentification> <BuyerProductIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> </pre>	

7.6.4.1 Single Line Payment Detail, continued

Example Markup	Annotation
<pre> <ProductDescription>IPA</ProductDescription> </ProductIdentification> </BuyerProductIdentification> <ProductQuantity>10000</ProductQuantity> <UnitOfMeasure>lbs</UnitOfMeasure> <Pricing> <MonetaryAmount CurrencyCode="USD">1.00</MonetaryAmount> <PriceBasis>lbs</PriceBasis> <PriceReason>catalog</PriceReason> </Pricing> <PurchaseOrderNumber>ab12345</PurchaseOrderNumber> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001205T1300</DateTime> </PurchaseOrderIssuedDate> <Taxable>N</Taxable> <ShipmentTerms> <ShipmentTermsCode>FOB</ShipmentTermsCode> <ShipmentTermsLocation>GATX</ShipmentTermsLocation> </ShipmentTerms> <FreightIncludedFlag>N</FreightIncludedFlag> <GrossInvoiceAmount>10000.00</GrossInvoiceAmount> </LineItems> <TotalAmountPaid>10000.00</TotalAmountPaid> </PaymentDetailDetails> </pre>	

7.6.4.2 Multiple Line Payment Detail

Example Markup	Annotation
<pre> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>LMNOP Petrochemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John Doe</ContactName> <ContactDescription>AR Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>555-5555</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>12345 Yah Avenue</AddressLine> <CityName>Any City</CityName> <StateProvince>Your State</StateProvince> <PostalCode>12345-9876</PostalCode> <PostalCountry>US</PostalCountry> <LocationCode> <Code>001</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">12- 3456789</TaxIdentifierNumber> <Jurisdiction>Florida</Jurisdiction> <TaxCertificateNumber>123456</TaxCertificateNumber> </TaxInformation> <URL>www.sample.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>ABC Performance Chemicals</PartnerName> <PartnerIdentifier PartnerRole="SoldTo"> <Code Domain="DUNS">888888888</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Jane Smith</ContactName> <ContactDescription>AP Manager</ContactDescription> </ContactInformation> </PartnerInformation> </To> </pre>	

7.6.4.2 Multiple Line Payment Detail, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>818</AreaCode> <PhoneNumber>444-4444</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>1313 Mockingbird Lane</AddressLine> <CityName>Los Angeles</CityName> <StateProvince>CA</StateProvince> <PostalCode>21345-9876</PostalCode> <PostalCountry>US</PostalCountry> <LocationCode> <Code>1234</Code> </LocationCode> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">98- 7654321</TaxIdentifierNumber> <TaxCertificateNumber>876509</TaxCertificateNumber> </TaxInformation> <URL>www.sample.net</URL> </PartnerInformation> </To> </Header> </pre>	
<pre> <PaymentDetailProperties> <Language> <Code Domain="ISO">ENG</Code> </Language> <BuyersTransactionNumber>983754</BuyersTransactionNumber> <MarketPlaceInformation> <MarketPlaceIdentifier> <Code Domain="DUNS">666666666</Code> </MarketPlaceIdentifier> <DocumentReference ReferenceType="PurchaseOrderNumber"> <DocumentIdentifier>ab12345</DocumentIdentifier> </DocumentReference> <MarketplacesellerIdentifier> <Code Domain="DUNS">999999999</Code> </MarketplacesellerIdentifier> <MarketPlaceBuyerIdentifier> <Code Domain="DUNS">888888888</Code> </MarketPlaceBuyerIdentifier> </MarketPlaceInformation> </PaymentDetailProperties> </pre>	

7.6.4.2 Multiple Line Payment Detail, continued

Example Markup	Annotation
<pre> <PaymentDetailPartners> <Buyer> <PartnerInformation> <PartnerName>New Age Chemical</PartnerName> <PartnerName>Global Purchase Department</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">632987123</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Smith</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>217</AreaCode> <PhoneNumber>789-1530</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>2088 Linden Blvd.</AddressLine> <CityName>Springfield</CityName> <StateProvince>IL</StateProvince> <PostalCode>20858</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>XYZ Company</PartnerName> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Joe Davis</ContactName> <ContactDescription>Supervisor</ContactDescription> <TelephoneNumber> <AreaCode>333</AreaCode> <PhoneNumber>3331234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>456 Main Street</AddressLine> <CityName>Your Town</CityName> <StateProvince>PA</StateProvince> <PostalCode>12345</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="State">99- 8888888</TaxIdentifierNumber> </TaxInformation> <URL>www.XYZCompany.com</URL> </PartnerInformation> </Seller> <BuyerFinancialInstitution> <PartnerInformation> </pre>	

7.6.4.2 Multiple Line Payment Detail, *continued*

Example Markup	Annotation
<pre> <PartnerName>Buyer's Bank</PartnerName> <PartnerIdentifier PartnerRole="R/N Value"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>John D. Rockefeller</ContactName> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>313</AreaCode> <PhoneNumber>222-2222</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>321 bankstreet</AddressLine> <CityName>Bankcity</CityName> <StateProvince>Bankstate</StateProvince> <PostalCode>33333-4444</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </BuyerFinancialInstitution> <SellerFinancialInstitution> <PartnerInformation> <PartnerName>Seller's Bank</PartnerName> <PartnerIdentifier PartnerRole="R/N Value"> <Code Domain="DUNS">777777777</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mario Cuomo</ContactName> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>212</AreaCode> <PhoneNumber>999-9999</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>3254 StreetName</AddressLine> <CityName>New York</CityName> <StateProvince>NY</StateProvince> <PostalCode>12345-0987</PostalCode> <PostalCountry>US</PostalCountry> </AddressInformation> </PartnerInformation> </SellerFinancialInstitution> </PaymentDetailPartners> </pre>	

7.6.4.2 Multiple Line Payment Detail, continued

Example Markup	Annotation
<pre> <PaymentDetailDetails> <LinItems> <SellersInvoiceNumber>98765</SellersInvoiceNumber> <InvoiceType>Debit</InvoiceType> <InvoiceDate> <DateTime TimeZone="EST">20001224T1200</DateTime> </InvoiceDate> <LinItemNumber>1</LinItemNumber> <LinItemDebitCreditIndicator>DR</LinItemDebitCreditIndicator> <SellerProductIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription>Ethylene Oxide</ProductDescription> </ProductIdentification> </SellerProductIdentification> <BuyerProductIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription>EO</ProductDescription> </ProductIdentification> </BuyerProductIdentification> <ProductQuantity>1000</ProductQuantity> <UnitOfMeasure>lbs</UnitOfMeasure> <Pricing> <MonetaryAmount CurrencyCode="USD">1.00</MonetaryAmount> <PriceBasis>lbs</PriceBasis> <PriceReason>catalog</PriceReason> </Pricing> <PurchaseOrderNumber>ab12344</PurchaseOrderNumber> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001204T1200</DateTime> </PurchaseOrderIssuedDate> <Taxable>N</Taxable> <ShipmentTerms> <ShipmentTermsCode>FOB</ShipmentTermsCode> <ShipmentTermsLocation>GATX</ShipmentTermsLocation> </ShipmentTerms> <FreightIncludedFlag>N</FreightIncludedFlag> <GrossInvoiceAmount>10000.00</GrossInvoiceAmount> </LinItems> <LinItems> <SellersInvoiceNumber>54321</SellersInvoiceNumber> <InvoiceType>Debit</InvoiceType> <InvoiceDate> <DateTime TimeZone="EST">20001225T0600</DateTime> </InvoiceDate> <LinItemNumber>1</LinItemNumber> <LinItemDebitCreditIndicator>DR</LinItemDebitCreditIndicator> <SellerProductIdentification> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription>IPA</ProductDescription> </ProductIdentification> </SellerProductIdentification> <BuyerProductIdentification> <ProductIdentification> </pre>	

7.6.4.2 Multiple Line Payment Detail, *continued*

Example Markup	Annotation
<pre> <ProductIdentifier Agency="ISO"/> <ProductDescription>IPA</ProductDescription> </ProductIdentification> </BuyerProductIdentification> <ProductQuantity>10000</ProductQuantity> <UnitOfMeasure>lbs</UnitOfMeasure> <Pricing> <MonetaryAmount CurrencyCode="USD">1.00</MonetaryAmount> <PriceBasis>lbs</PriceBasis> <PriceReason>catalog</PriceReason> </Pricing> <PurchaseOrderNumber>ab12345</PurchaseOrderNumber> <PurchaseOrderIssuedDate> <DateTime TimeZone="EST">20001205T1300</DateTime> </PurchaseOrderIssuedDate> <Taxable>N</Taxable> <ShipmentTerms> <ShipmentTermsCode>FOB</ShipmentTermsCode> <ShipmentTermsLocation>GATX</ShipmentTermsLocation> </ShipmentTerms> <FreightIncludedFlag>N</FreightIncludedFlag> <GrossInvoiceAmount>10000.00</GrossInvoiceAmount> </LineItems> <TotalAmountPaid>20000.00</TotalAmountPaid> </PaymentDetailDetails> </pre>	

8.0 Forecasting

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8.1 Introduction and Scope of Effort

This section of the document defines the data exchange necessary to support Demand Forecasting, Collaborative Planning, and Vendor Managed Inventory (VMI) processes between Buyers and Sellers directly or via a Marketplace. The business transactions listed below are supported and discussed in detail in this section of the document.

Demand Forecast	Seller sends forecast and forecast updates to the Buyer; Buyer sends forecast and forecast updates to Seller.
Demand Forecast Response	Seller sends functional response to the Buyer to confirm receipt of forecast and receipt of forecast updates; Buyer sends functional response to Seller to confirm receipt of forecast and receipt of forecast updates.
Supply Plan	Seller sends supply plan to Buyer to initiate a collaborative planning process.
Supply Plan Response	Buyer sends functional response to Seller to confirm receipt of supply plan.
Demand Plan	Buyer sends demand plan to Seller to initiate a collaborative planning process.
Demand Plan Response	Seller sends functional response to Buyer to confirm receipt of demand plan.
Replenishment Proposal Request	Seller sends proposed replenishment to Buyer for approval before creating and executing the replenishment order.
Replenishment Proposal Response	Buyer sends response to Seller to approve creation and execution of a replenishment order.
Replenishment Proposal Change	Buyer sends replenishment proposal change to Seller.
Replenishment Proposal Cancel	Buyer sends replenishment proposal Cancel to Seller.
Inventory Actual Usage	Buyer sends inventory position and/or actual usage to Seller.
Inventory Actual Usage Response	Seller sends functional response to Buyer to confirm receipt of inventory position and actual usage.
Delivery Receipt	Buyer sends to Seller to notify receipt of delivery.
Delivery Receipt Response	Seller sends functional response to Buyer to confirm receipt of delivery receipt.

8.1.1 Key Scope Assumptions

- Transactions are included for the following business processes: Demand Forecasting, Collaborative Planning, and Vendor Managed Inventory.
- All transactions were designed to be used in Business-to-Business (B2B) and Business to Marketplace communications.
- Transactions were designed based on North American and European business processes. Regional implications outside of North America and Europe were not considered.
- Internal business processes for Buyers, Sellers, and Marketplaces have been considered in the transaction design, however business processes are not included as part of transaction standards.
- Possible manipulation and data extraction by the Marketplace has been considered and assumed to have no impact on the transaction sent Buyer to Seller or Seller to Buyer via the Marketplace.

8.1.2 Key Business Model Assumptions

- Business process decisions related to the transfer of demand forecast, collaborative planning, and vendor managed inventory information, including what transactions to use as well as what data elements to populate have been agreed upon in advance by the Buyer and Seller.
- Transaction confirmations are functional responses that acknowledge data content receipt but not acceptance. All transaction confirmations are optional and are not intended to replace technical responses.
- Errors and exceptions to any transaction may be addressed off-line via phone/fax/mail and/or by re-sending the transaction.
- The Buyer and Seller may not necessarily be the sender or receiver of the transactions. The sender and receiver data are included in the header or envelope. The transaction header and/or envelope should accommodate Marketplace data if the Marketplace is included in the scenario.

8.2 Business Process Diagrams with Descriptions

8.2.1 Demand Forecast

This section defines the data exchange necessary to support communication of demand forecasts and forecast updates between Buyers and Sellers directly or via a Marketplace. The Demand Forecast and Demand Forecast Response transactions can be used for long-term strategic, mid-term tactical, and short-term operational forecasts.

8.2.1.1 Demand Forecast/Demand Forecast Response Requirements

The transaction standards created enable the following:

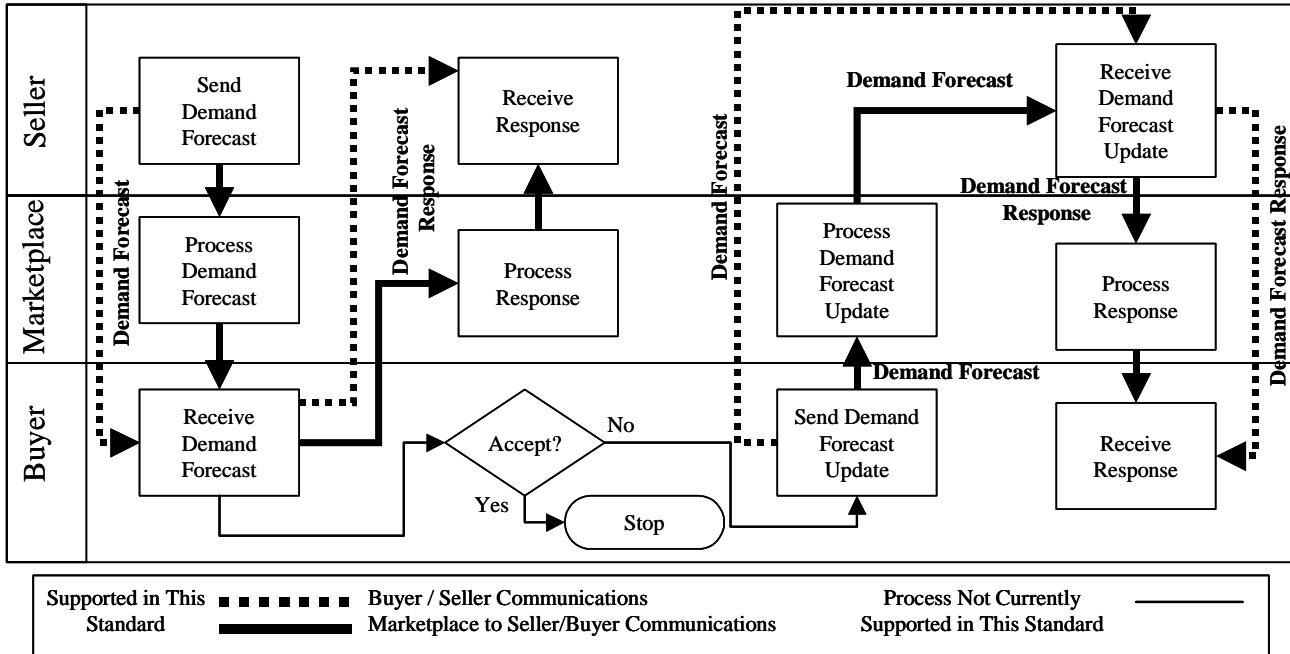
- Seller sends demand forecast to Buyer
- Buyer sends demand forecast to Seller
- Seller confirms receipt of Buyer's demand forecast
- Buyer confirms receipt of Seller's demand forecast
- Buyer sends updates (can be adds, changes, and deletes for products, locations, time periods) to Seller's forecast of Buyer's demand
- Buyer's and Seller's product IDs can be used in the demand forecast
- Demand forecast can be sent as frequently as needed (hourly, daily, weekly, etc.)
- Demand forecast can be in various buckets (daily, weekly, monthly, etc.)
- Demand forecast and the corresponding confirmation transaction can be directly exchanged between a Buyer and Seller or via a Marketplace

The Business Process Models for Demand Forecast and Demand Forecast Response transactions for both Seller- and Buyer-initiated scenarios are depicted in the following diagrams. Solid lines illustrate the transactions between the Buyer or Seller and the Marketplace. Dashed lines indicate the Buyer to Seller or Seller to Buyer transactions. Solid thin lines indicate Seller or Buyer internal processes that may or may not lead to the creation of a transaction.

8.2.1.1 Demand Forecast/Demand Forecast Response Requirements, *continued*

The following diagrams represent one cycle of the demand forecasting process.

Demand Forecast – Seller Initiated



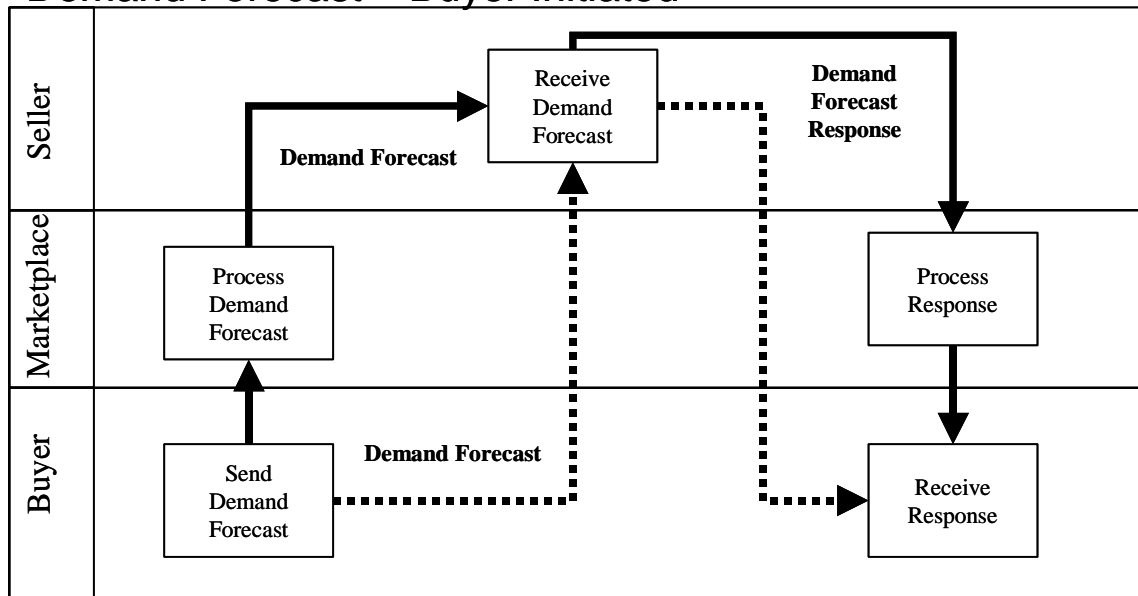
8.2.1.1 Demand Forecast/Demand Forecast Response Requirements continued

Two Models are represented:

Marketplace Model	In a Marketplace model, the Seller creates and sends the Demand Forecast transaction to the Marketplace. The Marketplace processes and sends the Demand Forecast transaction to the Buyer. The Seller has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Buyer creates and sends a Demand Forecast Response transaction to the Marketplace. The Marketplace forwards the confirmation transaction to the Seller. The Buyer has the option of updating the Seller-initiated forecast and sending the updated Demand Forecast transaction to the Marketplace. The Marketplace processes and sends the forecast transaction to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends a Demand Forecast Response to the Marketplace. The Marketplace forwards the confirmation transaction to the Buyer.
B2B Model	In a B2B situation, the Seller creates and sends the Demand Forecast transaction to the Buyer. The Seller has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Buyer creates and sends a Demand Forecast Response transaction to the Seller. The Buyer also has the option of updating the Seller-initiated forecast by sending an updated Demand Forecast transaction directly to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends a Demand Forecast Response to the Buyer.

8.2.1.1 Demand Forecast/Demand Forecast Response Requirements continued

Demand Forecast – Buyer Initiated



Supported in This Standard	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ Buyer / Seller Communications	Process Not Currently Supported in This Standard	—————
	————— Marketplace to Seller/Buyer Communications		

Two Models are represented:

Marketplace Model	In the Marketplace model, the Buyer creates and sends the Demand Forecast transaction to the Marketplace. The Marketplace processes and sends the Demand Forecast transaction to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Buyer creates and sends a Demand Forecast Response transaction to the Marketplace. The Marketplace forwards the confirmation transaction to the Buyer.
B2B Model	In the B2B situation, the Buyer creates and sends the Demand Forecast transaction to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends a Demand Forecast Response transaction to the Buyer.

Demand Forecast and Demand Forecast Response Assumptions

- Demand Forecast is always a forecast of the Buyer's demand, whether it is provided by the Seller or by the Buyer.
-
- The Buyer has the capability to review and send updates to the forecast that is generated by the Seller.
- It is not necessary for the Buyer to acknowledge acceptance of the Seller-generated demand forecast. It is assumed that a non-response within a set time period agreed upon by the Buyer and Seller indicates acceptance.
- It is not necessary for the Seller to acknowledge acceptance of the Buyer-generated demand forecast. It is assumed that a non-response within a set time period agreed upon by the Buyer and Seller indicates acceptance.
- There is no request transaction necessary to trigger the sending of the demand forecast by either the Buyer or the Seller.
- Demand Forecast transactions replace the existing forecast, therefore no separate transactions are required to add, delete, or replace data.

8.2.1.2 Scenarios for Demand Forecast

The following scenarios represent the Demand Forecast transaction:

- Seller initiates the demand forecast which is accepted by the Buyer
Each step occurs within an agreed upon window of time as determined by the business partners

The Seller generates a demand forecast for the Buyer based on historical demand and market intelligence. The Seller sends the demand forecast to the Buyer. The Buyer receives, reviews, and agrees with the demand forecast. No further action is required.

- Seller initiates the demand forecast, which is revised by the Buyer
Each step occurs within an agreed upon window of time as determined by the business partners

The Seller generates a demand forecast for the Buyer based on historical demand and market intelligence. The Seller sends the demand forecast to the Buyer. The Buyer receives, reviews, updates, and resends the demand forecast. The Seller receives the updated demand forecast.

- Seller initiates the demand forecast and sends via the Marketplace
Each step occurs within an agreed upon window of time as determined by the business partners

The Seller generates a demand forecast for the Buyer based on historical demand and market intelligence. The Seller sends the demand forecast to the Marketplace. The Marketplace receives and resends the demand forecast to the Buyer. The Buyer receives, reviews, updates, and resends the demand forecast to the Marketplace. The Marketplace receives and resends the demand forecast to the Seller. The Seller receives the demand forecast. The Marketplace may aggregate, extract, or simply transmit the transaction.

- Buyer initiates the demand forecast
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a demand forecast based on historical demand and market intelligence. The Buyer sends the demand forecast to the Seller. The Seller receives and processes the demand forecast.

8.2.1.2 Scenarios for Demand Forecast, *continued*

- Buyer initiates the demand forecast and sends via the Marketplace
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a demand forecast for the Seller based on historical demand and market intelligence. The Buyer sends the demand forecast to the Marketplace. The Marketplace receives and resends the demand forecast to the Seller. The Seller receives, reviews, updates, and resends the demand forecast to the Marketplace. The Marketplace receives and resends the demand forecast to the Seller. The Seller receives the demand forecast. The Marketplace may aggregate, extract, or simply transmit the transaction.

[Demand Forecast Example Markup](#)

The following scenarios represent the Demand Forecast Response transaction:

- Buyer creates and sends the Demand Forecast Response
Each step occurs within an agreed upon window of time as determined by the business partners

Upon receipt of the Seller-initiated demand forecast, the Buyer sends the Demand Forecast Response to the Seller. The Seller receives the functional confirmation that acknowledges receipt and content of the transaction.

- Seller initiates the Demand Forecast Response
Each step occurs within an agreed upon window of time as determined by the business partners

Upon receipt of the Buyer-updated or Buyer-initiated demand forecast, the Seller sends the Demand Forecast Response to the Buyer. The Buyer receives the functional confirmation that acknowledges receipt and content of the transaction.

[Demand Forecast Response Example Markup](#)

8.2.2 Collaborative Planning

This section defines the data exchange necessary to support communication of demand and supply plans, updates, and changes to those plans between Buyers and Sellers directly or via a Marketplace. The Demand Plan and Supply Plan transactions can be used for communicating short-term planned and firm requirements.

- The Demand Plan, Supply Plan, and Demand Forecast transactions are similar in content, but differ in use. Therefore, a decision was made to design three separate transactions. The Buyer and Seller's commitment to the data increases as the process progresses from forecasts to plans. Collaborative planning processes may require communication of forecasts as well as plans, and the transactions must provide the capability to distinguish between the two.

8.2.2.1 Demand Plan/Demand Plan Response and Supply Plan/Supply Plan Response Requirements

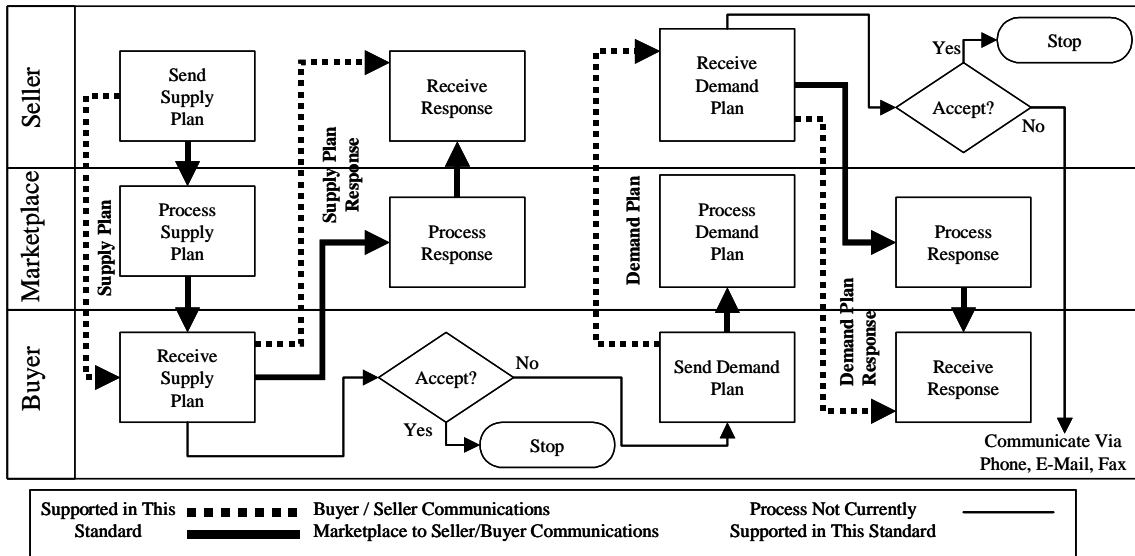
The transaction standards created enable the following:

- Seller sends supply plan to Buyer
- Buyer sends demand plan to Seller
- Seller confirms receipt of Buyer's supply plan
- Buyer confirms receipt of Seller's demand plan
- Buyer sends updates (can be adds, changes, and deletes for products, locations, time periods) to their demand plan upon review of the Seller's supply plan
- Buyer's and Seller's product IDs can be used in demand plan
- Buyer's and Seller's product ID numbers can be used in supply plan
- Supply plan can be sent as frequently as needed (hourly, daily, weekly, etc.)
- Demand plan can be sent as frequently as needed (hourly, daily, weekly, etc.)
- Supply plan can be in various buckets (daily, weekly, etc.)
- Demand plan can be in various buckets (daily, weekly, etc.)
- Demand plan, supply plan, and the corresponding confirmation transactions can be exchanged directly between a Buyer and Seller or via a Marketplace

The Business Process Models for Demand Plan, Demand Plan Response, Supply Plan, and Supply Plan Response transactions are depicted in the following diagrams. The Demand Plan and Supply Plan Response transactions are Buyer-generated. The Supply Plan and Demand Plan Response transactions are Seller-generated. Solid lines illustrate the transactions between the Buyer or Seller and the Marketplace. Dashed lines indicate the Buyer to Seller or Seller to Buyer transactions. Solid thin lines indicate Seller or Buyer internal processes that may or may not lead to the creation of a transaction.

The following diagrams represent one cycle of the collaborative planning process.

Collaborative Planning – Seller Initiated



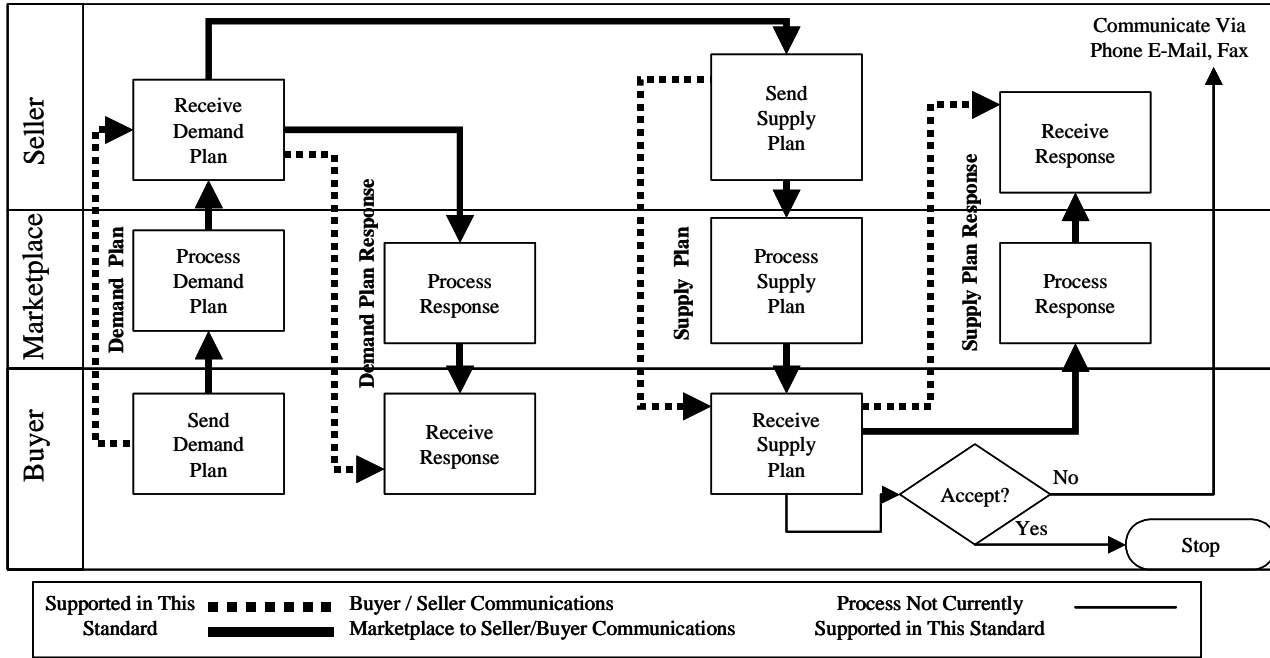
8.2.2.1 Demand Plan/Demand Plan Response and Supply Plan/Supply Plan Response Requirements, *continued*

Two Models are represented:

Marketplace Model	In a Marketplace model, the Seller creates and sends the Supply Plan transaction to the Marketplace. The Marketplace processes and sends the Supply Plan transaction to the Buyer. The Seller has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Buyer creates and sends a Supply Plan Response transaction to the Marketplace. The Marketplace forwards the confirmation transaction to the Seller. The Buyer also has the option to request an update to the Seller-initiated supply plan by generating and sending an updated Demand Plan transaction to the Marketplace. The Marketplace processes and sends the Demand Plan transaction to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends a Demand Plan Response to the Marketplace. The Marketplace forwards the confirmation transaction to the Buyer.
B2B Model	The most likely scenario is that the Seller creates and sends the Supply Plan transaction to the Buyer. The Seller has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Buyer creates and sends a Supply Plan Response transaction to the Seller. The Buyer also has the option to request an update to the Seller-initiated Supply Plan by generating and sending an updated Demand Plan transaction to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends a Demand Plan Response to the Buyer.

8.2.2.1 Demand Plan/Demand Plan Response and Supply Plan/Supply Plan Response Requirements, *continued*

Collaborative Planning – Buyer Initiated



Two Models are represented:

<p>Marketplace Model</p>	<p>In the Marketplace model, the Buyer creates and sends the Demand Plan transaction to the Marketplace. The Marketplace processes and sends the Demand Plan transaction to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends a Demand Plan Response transaction to the Marketplace. The Marketplace forwards the confirmation transaction to the Buyer. The Seller develops a supply plan using the Buyer’s demand plan, and then creates and sends a Supply Plan transaction to the Marketplace. The Marketplace processes and sends the Supply Plan transaction to the Buyer. The Seller has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Buyer creates and sends a Supply Plan Response transaction to the Marketplace. The Marketplace forwards the confirmation transaction to the Seller.</p>
<p>B2B Model</p>	<p>In the B2B situation, the Buyer creates and sends the Demand Plan transaction to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends a Demand Plan Response transaction to the Buyer. The Seller develops a supply plan based on the Buyer’s demand plan, and then creates and sends a Supply Plan transaction to the Buyer. The Seller has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Buyer creates and sends a Supply Plan Response transaction to the Seller.</p>

8.2.2.1 Demand Plan/Demand Plan Response and Supply Plan/Supply Plan Response Requirements, *continued*

Demand Plan and Supply Plan Assumptions

- There is no request transaction necessary to trigger the sending of the demand and supply plans by either the Buyer or Seller.
- Since the demand and supply plans are rolling, there is no separate transaction for updates.
- It is not necessary for the Seller to acknowledge acceptance of the Buyer's demand plan or for the Buyer to acknowledge acceptance of the Seller supply plan. It is assumed that a non-response within a set time period agreed upon by the Buyer and Seller indicates acceptance.
- Confirmation transactions strictly acknowledge receipt and content of the transactions, not acceptance.

8.2.2.2 Scenarios for Collaborative Planning

The following scenarios represent the Supply Plan transaction:

- Seller initiates the supply plan, which is accepted by the Buyer
Each step occurs within an agreed upon window of time as determined by the business partners

The Seller generates a supply plan for the Buyer based on a forecast and market intelligence. The Seller sends the supply plan to the Buyer. The Buyer receives, reviews, and agrees with the supply plan. No further action is required.

- Seller generates supply plan based on Buyer generated demand plan – Buyer accepts supply plan
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a demand plan for the Seller based on forecast and market intelligence. The Buyer sends the demand plan to the Seller. The Seller receives, reviews, and sends an updated supply plan. The Buyer receives, reviews, and agrees with the supply plan. No further action is required.

- Seller generates supply plan based on Buyer generated demand plan – Buyer does not accept supply plan
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a demand plan for the Seller based on forecast and market intelligence. The Buyer sends the demand plan to the Seller. The Seller receives, reviews, and sends an updated supply plan. The Buyer receives, reviews, and does not accept the supply plan. The Buyer intervenes by communicating with the Seller via phone, e-mail, or fax.

- Seller initiates the supply plan and sends via the Marketplace
Each step occurs within an agreed upon window of time as determined by the business partners

The Seller generates a supply plan for the Buyer based on a forecast and market intelligence. The Seller sends the supply plan to the Marketplace. The Marketplace receives and resends the supply plan to the Buyer. The Buyer receives and reviews the supply plan. The Marketplace may aggregate, extract, or simply transmit the transaction.

[Supply Plan Example Markup](#)

8.2.2.2 Scenarios for Collaborative Planning, continued

The following scenarios represent the Supply Plan Response transaction:

- Buyer initiates the Supply Plan Response
Each step occurs within an agreed upon window of time as determined by the business partners

Upon receipt of the Seller-initiated supply plan, the Buyer sends the Supply Plan Response to the Seller. The Seller receives the functional confirmation that acknowledges receipt and content of the transaction.

[Supply Plan Confirmation Example Markup](#)

The following scenarios represent the Demand Plan transaction:

- Buyer initiates the demand plan
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a demand plan for the Seller based on forecast and market intelligence. The Buyer sends the demand plan to the Seller. The Seller receives, reviews, and utilizes the demand plan to generate a supply plan.

- Buyer revises Seller-generated supply plan and sends an updated demand plan – Seller accepts demand plan
Each step occurs within an agreed upon window of time as determined by the business partners

The Seller generates a supply plan for the Buyer based on a forecast and market intelligence. The Seller sends the supply plan to the Buyer. The Buyer receives, reviews, and sends an updated demand plan. The Seller receives, reviews, and agrees with the demand plan. No further action is required.

- Buyer revises Seller-generated supply plan and resends as a demand plan – Seller does not accept demand plan
Each step occurs within an agreed upon window of time as determined by the business partners

The Seller generates a supply plan for the Buyer based on a forecast and market intelligence. The Seller sends the supply plan to the Buyer. The Buyer receives, reviews, and sends an updated demand plan. The Seller receives, reviews, and does not accept the demand plan. The Seller intervenes by communicating with the Buyer via phone, e-mail, or fax.

- Buyer initiates the demand plan and sends via the Marketplace
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a demand plan for the Seller based on forecast and market intelligence. The Buyer sends the demand plan to the Marketplace. The Marketplace receives and sends an updated demand plan to the Seller. The Seller receives and reviews the demand plan. The Marketplace may aggregate, extract, or simply transmit the transaction.

[Demand Plan Example Markup](#)

The following scenarios represent the Demand Plan Response transaction:

- Seller initiates the Demand Plan Response
Each step occurs within an agreed upon window of time as determined by the business partners

Upon receipt of the Buyer-initiated demand plan, the Seller sends the Demand Plan Response to the Buyer. The Buyer receives the functional confirmation that acknowledges receipt and content of the transaction.

[Demand Plan Response Example Markup](#)

8.2.3 Vendor Managed Inventory

8.2.3.1 Vendor Managed Inventory - Replenishment Proposal Request

This section defines the data exchange necessary to support the Replenishment Proposal Request process between Buyers and Sellers directly or via a Marketplace. Certain VMI processes require the Seller to obtain approval from the Buyer prior to creating and shipping a replenishment order. The Seller creates and sends a Replenishment Proposal Request transaction to the Buyer directly or via a Marketplace. The Buyer receives and reviews the proposal. The Buyer accepts the proposed replenishment order and responds to the Seller with a Replenishment Proposal Response transaction. The Buyer also has the option to change or cancel the proposal. The change and cancel transactions are described in the following sections.

8.2.3.1.1 Vendor Managed Inventory - Replenishment Proposal Request Requirements

The transaction standards created enable the following:

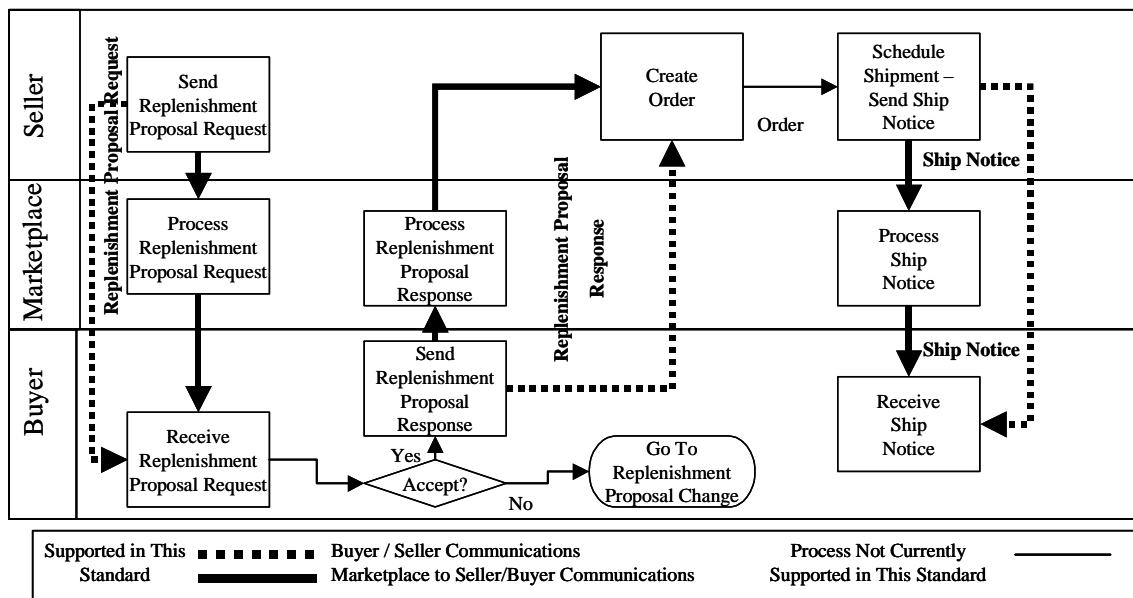
- Seller sends Buyer Replenishment Proposal Request
- Buyer accepts the Replenishment Proposal Request
- Replenishment Proposal Request includes sufficient order detail, such as product, quantity, ship to, and delivery date
- Replenishment Proposal Request may include one product at one location as well as multiple products at multiple locations
- Replenishment Proposal Response accommodates transmission of Buyer's single purchase order number or blanket purchase order number to Seller
- Frequency of the transactions varies depending on Buyer's replenishment requirements

The Business Process Model for Vendor Managed Inventory Replenishment Proposal Request and Replenishment Proposal Response transactions are depicted in the following diagram. Solid lines illustrate the transactions between the Buyer or Seller and the Marketplace. Dashed lines indicate the Buyer to Seller or Seller to Buyer transactions. Solid thin lines indicate Seller or Buyer internal processes that may or may not lead to the creation of a transaction.

8.2.3.1.1 Vendor Managed Inventory - Replenishment Proposal Request Requirements, *continued*

The following diagram represents one cycle of the Replenishment Proposal Request process.

Vendor Managed Inventory – Replenishment Proposal Request



Two Models are represented:

<p>Marketplace Model</p>	<p>A Seller creates and sends a Replenishment Proposal Request transaction to the Marketplace. The Marketplace processes and sends the Proposal transaction to the Buyer. The Buyer receives the transaction and sends a Replenishment Proposal Response transaction to the Marketplace. The Buyer’s response acknowledges acceptance of the order proposed by the Seller. The Marketplace processes and sends the Response transaction to the Seller.</p>
<p>B2B Model</p>	<p>A Seller creates and sends a Replenishment Proposal Request transaction directly to the Buyer. The Buyer receives the transaction and creates and sends a Replenishment Proposal Response transaction directly back to the Seller. The Buyer’s response acknowledges acceptance of the order proposed by the Seller.</p>

8.2.3.1.1 Vendor Managed Inventory - Replenishment Proposal Request Requirements, *continued*

Vendor Managed Inventory – Replenishment Proposal Request and Replenishment Proposal Response Assumptions

- The frequency of this transaction cycle is defined by Seller’s planned replenishments to Buyer. Alternate VMI processes may not require this transaction process at all.
- The Buyer has the capability, manual or otherwise, to review the original Replenishment Proposal Request and responds with either a Replenishment Proposal Response, Replenishment Change, or Replenishment Cancel transaction to the Seller.
- Alternate VMI processes may require the Seller to request “lists” of (Buyer) Purchase Order numbers from the Buyer. These requests made by the Seller and responses from the Buyer are made off-line via e-mail, fax, or phone. No economic value can be derived from the automation of this process.
- Buyer initiated order proposals are Create Order transactions. Create Order transactions are not discussed in this section of the document.
- Replenishment Proposal Request and Response transactions do not contain price and/or price terms. It is assumed that a contractual agreement between the Buyer and Seller establishes price and terms.

8.2.3.1.2 Scenarios for Vendor Managed Inventory - Replenishment Proposal Request and Replenishment Proposal Response

The following scenarios represent the Replenishment Proposal Request transaction:

- Seller initiates the Replenishment Proposal Request, which is accepted by the Buyer
Each step occurs within an agreed upon window of time as determined by the business partners

The Seller generates a Replenishment Proposal Request for the Buyer based on current on-hand inventory, agreed upon safety stock levels, and forecasted demand. The Seller sends the Replenishment Proposal Request to the Buyer. The Buyer receives, reviews, and agrees with the Replenishment Proposal Request. Refer to the Replenishment Proposal Response transaction scenarios for the next step.

- Seller initiates the Replenishment Proposal Request, which is not accepted by the Buyer
Each step occurs within an agreed upon window of time as determined by the business partners

The Seller generates a Replenishment Proposal Request for the Buyer based on current on-hand inventory, agreed upon safety stock levels, and forecasted demand. The Seller sends the Replenishment Proposal Request to the Buyer. The Buyer receives, reviews, and does not agree with the Replenishment Proposal Request. Refer to Replenishment Proposal Change transaction scenarios for adding to or changing the Replenishment Proposal Request. Refer to Replenishment Proposal Cancel transaction scenarios for canceling the Replenishment Proposal Request.

- Seller initiates the Replenishment Proposal Request and sends via the Marketplace
Each step occurs within an agreed upon window of time as determined by the business partners

The Seller generates a Replenishment Proposal Request based on current on-hand inventory, agreed upon safety stock levels, and forecasted demand. The Seller sends the Replenishment Proposal Request to the Marketplace. The Marketplace receives and resends the Replenishment Proposal Request to the Buyer. The Buyer receives and reviews the Replenishment Proposal Request. The Marketplace may aggregate, extract, or simply transmit the transaction.

[Replenishment Proposal Request Example Markup](#)

8.2.3.1.2 Scenarios for Vendor Managed Inventory - Replenishment Proposal Request and Replenishment Proposal Response, *continued*

The following scenarios represent the Replenishment Proposal Response transaction:

- Buyer initiates the replenishment proposal response

Each step occurs within an agreed upon window of time as determined by the business partners

Upon receipt of the Buyer-initiated replenishment proposal response, the Seller executes the replenishment order.

[Replenishment Proposal Response Example Markup](#)

8.2.4 Vendor Managed Inventory - Replenishment Proposal Change and Cancel

This section defines the data exchange transactions necessary to support the replenishment proposal change and Cancel process between Buyers and Sellers directly or via a Marketplace. Certain VMI processes require the Seller to obtain approval from the Buyer prior to creating and executing a replenishment order. Upon receipt of a Replenishment Proposal Request transaction from the Seller, the Buyer has the option of either changing or canceling the Replenishment Proposal Request. The Buyer creates and sends either a Replenishment Proposal Change or a Replenishment Proposal Cancel to the Seller, directly or via a Marketplace. The Seller receives the transaction and in the case of a change, either executes the order and ships as requested or contacts the Buyer off-line to negotiate order requirements. In the event the Seller receives a cancellation, the Replenishment Proposal Request is canceled within the Seller's system. The Seller, in most instances, contacts the Buyer off-line to negotiate order requirements.

8.2.4.1 Vendor Managed Inventory - Replenishment Proposal Change and Cancel Requirements

The transaction standards created enable the following:

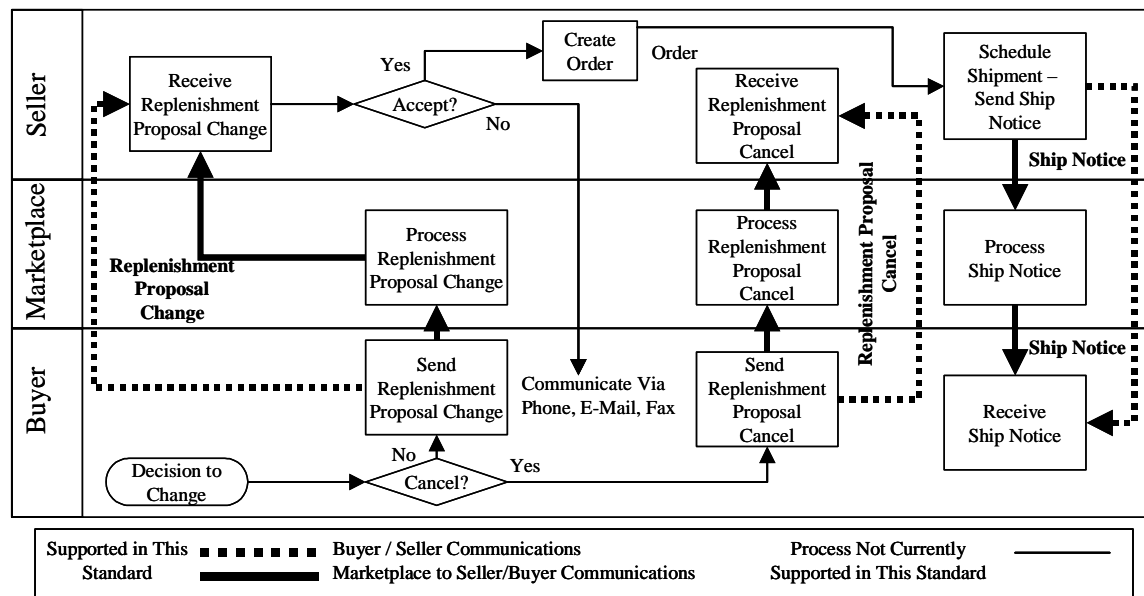
- Buyer can change or cancel the Replenishment Proposal Request sent by the Seller
- Changes can be made at the product level, location level, or SKU level
- Changes include product, quantity, and delivery date
- Frequency of transactions varies depending on the Buyer's replenishment requirements

The Business Process Model for Vendor Managed Inventory Replenishment Proposal Change and Replenishment Proposal Cancel transactions are depicted in the following diagram. Solid lines illustrate the transactions between the Buyer or Seller and the Marketplace. Dashed lines indicate the Buyer to Seller or Seller to Buyer transactions. Solid thin lines indicate Seller or Buyer internal decision processes that may or may not lead to the creation of a transaction.

8.2.4.1 Vendor Managed Inventory - Replenishment Proposal Change and Cancel Requirements, *continued*

The following diagram represents one cycle of the replenishment proposal change and cancellation process.

Vendor Managed Inventory – Replenishment Proposal Change



Two Models are represented:

<p>Marketplace Model</p>	<p>A Buyer creates and sends a Replenishment Proposal Change transaction to the Marketplace. The Marketplace processes and sends the Proposal Change transaction to the Seller. The Seller receives the transaction and either internally creates a replenishment order to be shipped to the Buyer or communicates off-line (phone, fax, e-mail) to negotiate order requirements with the Buyer.</p> <p>The Buyer may also create and send a Replenishment Proposal Cancel transaction to the Marketplace. The Marketplace receives, processes, and sends the Cancel transaction to the Seller. The Seller receives the Cancel transaction and internally cancels the original Replenishment Proposal Request submitted to the Buyer.</p>
<p>B2B Model</p>	<p>A Buyer creates and sends the Replenishment Proposal Change transaction directly to the Seller. The Seller receives the transaction and either internally creates an order to be shipped to the Buyer or communicates off-line (phone, fax, e-mail) to negotiate order requirements with the Buyer.</p> <p>The Buyer may also create and send a Replenishment Proposal Cancel transaction directly to the Seller. The Seller receives the Cancel transaction and internally cancels the original Replenishment Proposal Request submitted to the Buyer.</p>

8.2.4.1 Vendor Managed Inventory - Replenishment Proposal Change and Cancel Requirements, *continued*

Replenishment Proposal Change and Replenishment Cancel Assumptions

- Replenishment Proposal Change and Cancel transactions do not contain price and/or price terms.
- The Replenishment Proposal Cancel transaction cancels all line items included on the original Proposal submitted by the Seller. Deletion of a single line item on a Replenishment Proposal Request requires a Replenishment Proposal Change transaction.

8.2.4.2 Scenarios for Vendor Managed Inventory - Replenishment Proposal Change and Cancel

The following scenarios represent the Replenishment Proposal Change transaction:

- Buyer generates and sends a replenishment proposal change – Seller accepts replenishment proposal change
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a replenishment proposal change. The Buyer sends the replenishment proposal change to the Seller. The Seller receives, reviews, and accepts the replenishment proposal change. The Seller proceeds with the execution of the order fulfillment process.

- Buyer generates and sends a replenishment proposal change – Seller does not accept replenishment proposal change
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a replenishment proposal change. The Buyer sends the replenishment proposal change to the Seller. The Seller receives, reviews, and does not accept the replenishment proposal change. The Seller intervenes by communicating with the Buyer via phone, e-mail, or fax.

- Buyer generates and sends a replenishment proposal change via the Marketplace
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a replenishment proposal change. The Buyer sends the replenishment proposal change to the Marketplace. The Marketplace receives and resends the replenishment proposal change to the Seller. The Seller receives and reviews the replenishment proposal change. The Marketplace may aggregate, extract, or simply transmit the transaction.

[Replenishment Proposal Change Example Markup](#)

The following scenarios represent the Replenishment Proposal Cancel transaction:

- Buyer sends a replenishment proposal cancel
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a replenishment proposal cancel. The Buyer sends the replenishment proposal cancel to the Seller. The Seller receives and internally cancels the original Replenishment Proposal Request.

8.2.4.2 Scenarios for Vendor Managed Inventory - Replenishment Proposal Change and Cancel, *continued*

- Buyer sends a replenishment proposal cancel via the Marketplace
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates a replenishment proposal cancel. The Buyer sends the replenishment proposal cancel to the Marketplace. The Marketplace receives and resends the replenishment proposal cancel to the Seller. The Seller receives and internally cancels the original the Replenishment Proposal Request. The Marketplace may aggregate, extract, or simply transmit the transaction.

[Replenishment Proposal Cancel Example Markup](#)

8.2.5 Vendor Managed Inventory - Inventory and Actual Usage

This section defines the data exchange necessary to support communication of inventory and actual usage data between Buyers and Sellers directly or via a Marketplace. VMI processes require communication of on-hand inventory. The Seller receives frequent communication from the Buyer of current on-hand inventory status to enable the Seller to plan replenishment orders. Actual usage data is also valuable to the Seller to validate the Seller's own calculated usage. Actual usage may also be required for billing purposes.

8.2.5.1 Vendor Managed Inventory - Inventory and Actual Usage Requirements

The transaction standards created enable the following:

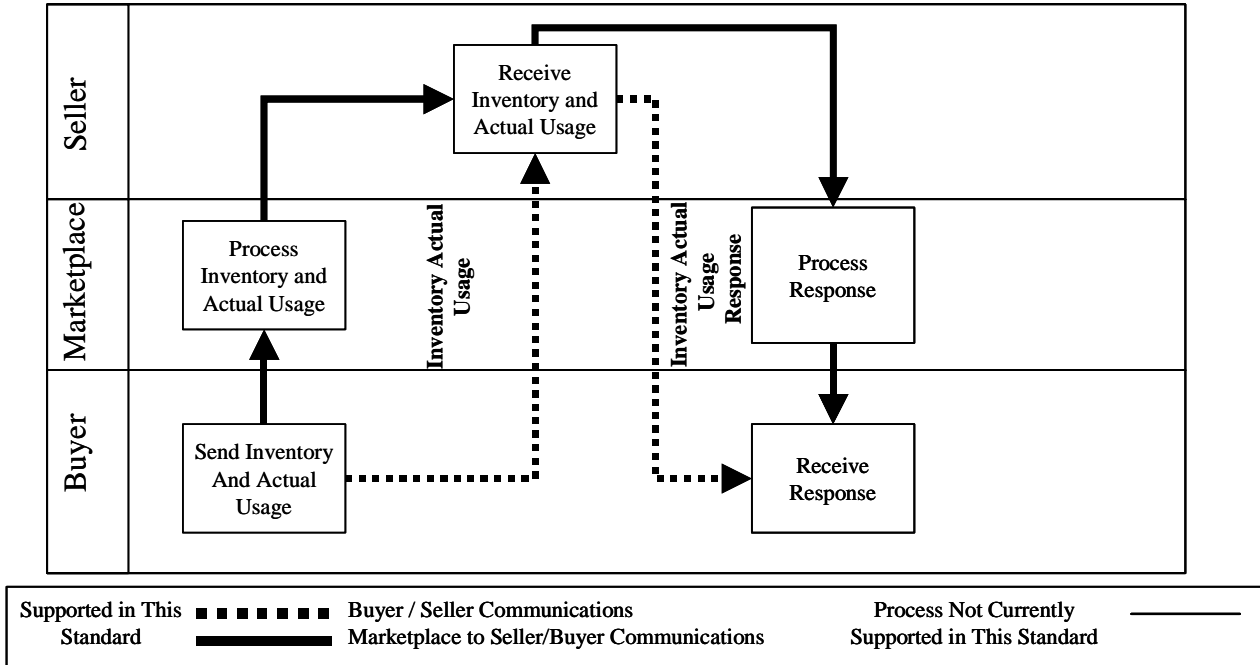
- Buyer sends Seller current on-hand inventory
- Frequency of inventory communication varies; every half hour, once a week, or may be triggered by inventory levels
- Inventory includes in-transit, on-site but not off-loaded to storage tank
- Buyer sends Seller actual usage data
- Usage "buckets" may vary; e.g., rolling week or previous day
- Seller confirms receipt of inventory and actual usage data
- Inventory position and Usage may be communicated by product and by tank but not simultaneously
 - Separate line items are required to assign a tank ID to a product inventory level and usage

The Business Process Model for Inventory and Actual Usage and Inventory and Actual Usage Confirmation transactions are depicted in the following diagram. Solid lines illustrate the transactions between the Buyer or Seller and the Marketplace. Dashed lines indicate the Buyer to Seller or Seller to Buyer transactions.

8.2.5.1 Vendor Managed Inventory - Inventory and Actual Usage Requirements, *continued*

The following diagram represents one cycle of the inventory and usage process.

Vendor Managed Inventory – Inventory and Actual Usage



Two Models are represented:

Marketplace Model	The Buyer creates and sends an Inventory and Actual Usage transaction to the Marketplace. The Marketplace processes and sends the Inventory and Actual Usage transaction to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends an Inventory and Actual Usage Confirmation transaction to the Marketplace. The Marketplace processes and sends the confirmation to the Buyer.
B2B Model	The Buyer creates and sends an Inventory and Actual Usage transaction directly to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends an Inventory and Actual Usage Confirmation transaction to the Buyer.

Inventory and Actual Usage and Inventory Actual Usage Response Assumptions

- The inventory and actual usage transaction can also be used for non-VMI processes.
- A request (pull) transaction is not required. It is assumed that the Buyer and Seller have agreed on the timing and frequency of the updates and the Buyer has set the appropriate internal triggers.
- Inventory types such as storage tank, on-site, and in-transit for a given product have the same package type.

- Different package types require additional line items within the transaction.

8.2.5.2 Scenarios for Vendor Managed Inventory - Inventory and Actual Usage

The following scenarios represent the Inventory and Actual Usage transaction:

- Buyer generates the inventory and actual usage
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates inventory and actual usage for the Seller. The Buyer sends inventory and actual usage to the Seller. The Seller receives and processes the inventory and actual usage.

- Buyer generates the inventory and actual usage and sends via the Marketplace
Each step occurs within an agreed upon window of time as determined by the business partners

The Buyer generates inventory and actual usage for the Seller. The Buyer sends the inventory and actual usage to the Marketplace. The Marketplace receives and resends the inventory and actual usage to the Seller. The Seller receives and processes the inventory and actual usage. The Marketplace may aggregate, extract, or simply transmit the transaction.

[Inventory and Actual Usage Example Markup](#)

The following scenarios represent the Inventory and Actual Usage Confirmation transaction:

- Seller generates and sends the inventory and actual usage confirmation
Each step occurs within an agreed upon window of time as determined by the business partners

Upon receipt of the Buyer initiated inventory and actual usage, the Seller sends the inventory and actual usage confirmation to the Buyer. The Buyer receives the functional confirmation that acknowledges receipt and content of the transaction.

[Inventory and Actual Usage Confirmation Example Markup](#)

8.2.6 Vendor Managed Inventory - Delivery Receipt

This section defines the data exchange transactions necessary to support the communication of delivery between Buyers and Sellers directly or via a Marketplace. Certain VMI processes require the Buyer to notify the Seller of the arrival of a product delivery at the Buyer's location.

8.2.6.1 Vendor Managed Inventory - Delivery Receipt Requirements

The transaction standards created enable the following:

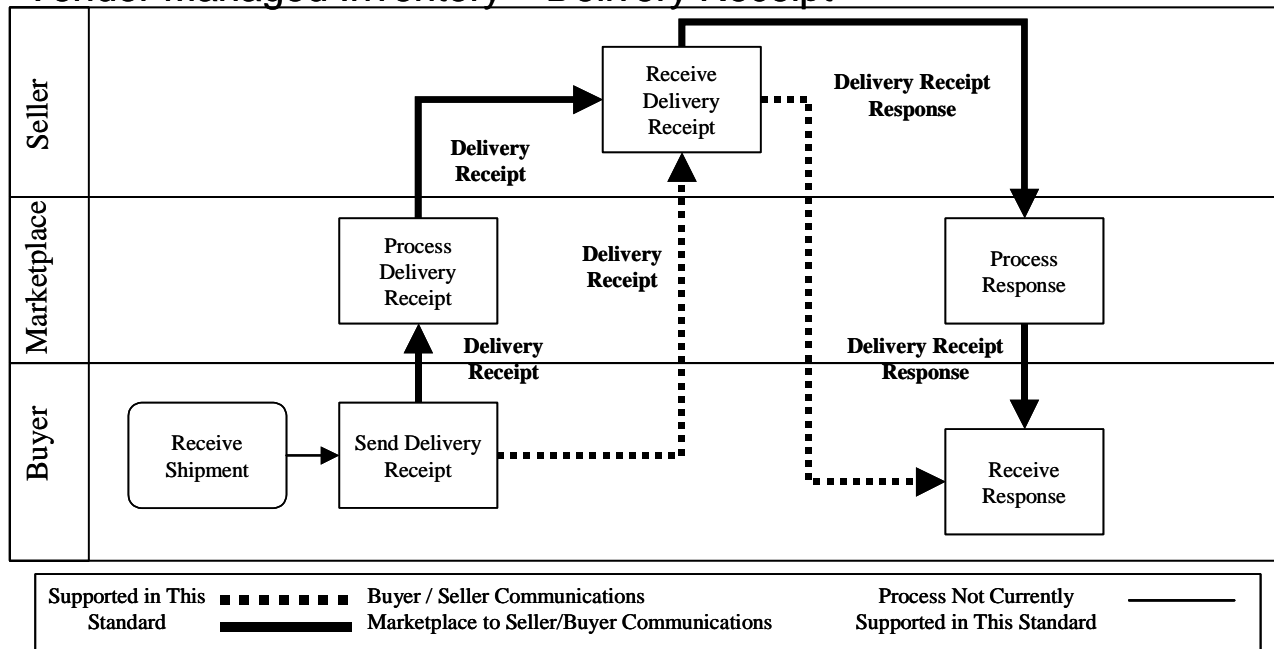
- Buyer communicates shipment delivery to Seller
- Receipt includes date and time of delivery, product, and quantity
- Seller confirms Receipt to Buyer
- Delivery Receipt accommodates receipt of a partial order

The Business Process Model for Delivery Receipt and Delivery Receipt Response transactions are depicted in the following diagram. Solid lines illustrate the transactions between the Buyer or Seller and the Marketplace. Dashed lines indicate the Buyer to Seller or Seller to Buyer transactions.

8.2.6.1 Vendor Managed Inventory - Delivery Receipt Requirements, continued

The following diagram represents one cycle of the delivery receipt process.

Vendor Managed Inventory – Delivery Receipt



Two Models are represented:

Marketplace Model	The Buyer receives a shipment and then creates and sends a Delivery Receipt transaction to the Marketplace. The Marketplace processes the Delivery Receipt and sends the transaction to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends a Delivery Receipt Response transaction to the Marketplace. The Marketplace processes and sends the response transaction to the Buyer.
B2B Model	The Buyer receives a shipment and then creates and sends a Delivery Receipt transaction to the Seller. The Buyer has the option to receive a receipt acknowledgment. If the Buyer and Seller agree, the Seller creates and sends a Delivery Receipt Response transaction to the Buyer.

Delivery Receipt and Delivery Receipt Response Assumptions

- The delivery receipt and confirmation transaction can also be used for non-VMI processes.
- The delivery receipt transaction and its response relate to a physical delivery by any transportation mode.
- Although the initial purpose of the delivery receipt transaction is to reconcile inventory levels for VMI, it may also facilitate the billing process.
- There will be only one delivery receipt transaction per order and per delivery.

8.2.6.2 Scenarios for Vendor Managed Inventory - Delivery Receipt

The following scenarios represent the Delivery Receipt transaction:

- Buyer generates and sends the delivery receipt
Each step occurs within an agreed upon window of time as determined by the business partners

Following the physical receipt, the Buyer generates a delivery receipt for the Seller. The Buyer sends the delivery receipt to the Seller. The Seller receives and processes the delivery receipt.

- Buyer generates the delivery receipt and sends via the Marketplace
Each step occurs within an agreed upon window of time as determined by the business partners

Following physical receipt, the Buyer generates a delivery receipt for the Seller. The Buyer sends the delivery receipt to the Marketplace. The Marketplace receives and resends the delivery receipt to the Seller. The Seller receives and processes the delivery receipt. The Marketplace may aggregate, extract, or simply transmit the transaction.

[Delivery Receipt Example Markup](#)

The following scenarios represent the Delivery Receipt Response transaction:

- Seller initiates the Delivery Receipt Response
Each step occurs within an agreed upon window of time as determined by the business partners

Upon receipt of the Buyer-initiated delivery receipt, the Seller sends the Delivery Receipt Response to the Buyer. The Buyer receives the functional confirmation that acknowledges receipt and the content of the transaction.

[Delivery Receipt Confirmation Example Markup](#)

8.3 Demand Forecast

8.3.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.3.2 Demand Forecast Data Model

The following diagrams show the graphical representation of the Demand Forecast Data Model:

Note: The Document Type Definition (DTD) for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

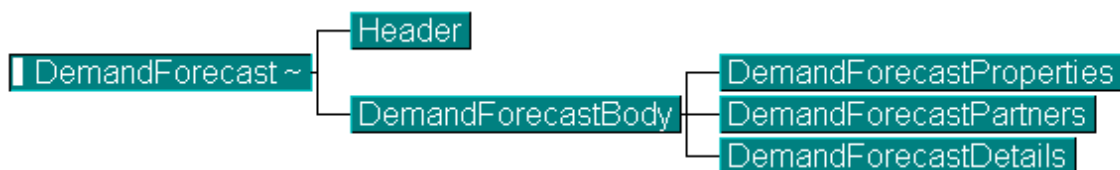


Figure 8.3.2.a: DemandForecast structure to be used for demand forecasting transactions

The figure above also shows:

- DemandForecastProperties
- holds information that applies to all the lines in the detail section
- DemandForecastPartners
 - details partner information for the Buyer and the Seller
- DemandForecastDetails
 - contains quantities per line item of the Demand Forecast Response
 - a line item specifies product, location, and timing details

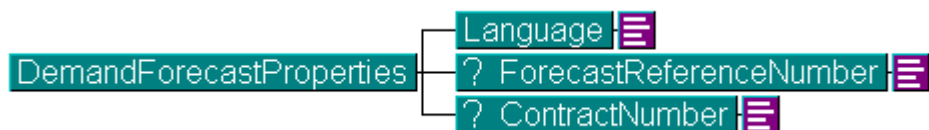
8.3.2 Demand Forecast Data Model, *continued*

Figure 8.3.2.b: DemandForecastProperties holds information that applies to all lines in the detail section

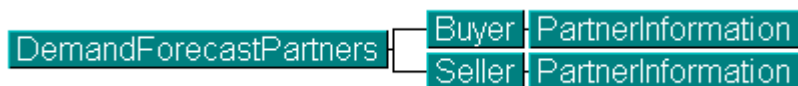


Figure 8.3.2.c: DemandForecastPartners details partner information for the Buyer and Seller

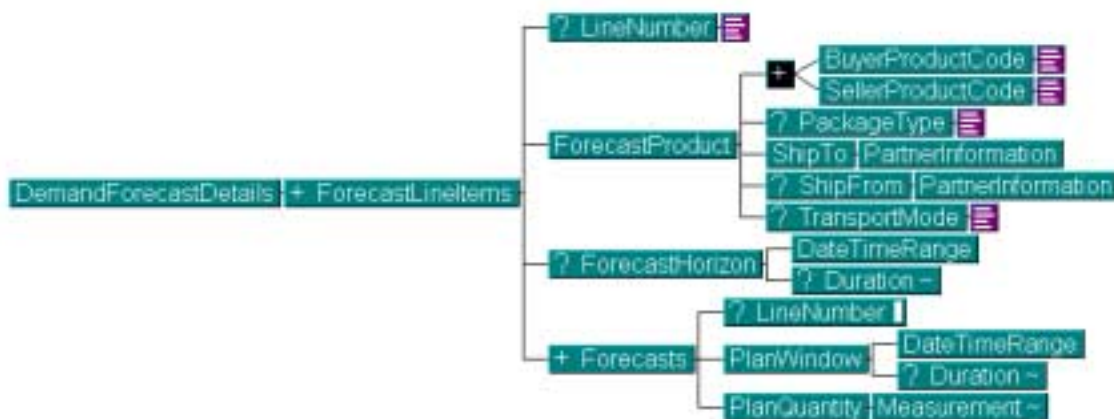


Figure 8.3.2.d: DemandForecastDetails contains quantities per line item of the demand forecast. A line item specifies product, location, and timing details.

8.3.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Demand Forecast business transaction.

8.3.4 Example Markup

The following are examples of the Demand Forecast business transaction:

8.3.4.1 Demand Forecast

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) -- > <!DOCTYPE DemandForecast SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\demandforecast.dtd"> <DemandForecast> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">999999999</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> </pre>	Header

8.3.4.1 Demand Forecast, continued

Example Markup	Annotation
<pre> <Code Domain="DUNS">98832343</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <DemandForecastBody> <DemandForecastProperties> <Language>EN</Language> <ForecastReferenceNumber>123456</ForecastReferenceNumber> <ContractNumber>123456</ContractNumber> </DemandForecastProperties> </pre>	<p>Properties</p> <p>"EN" = English (see code list)</p>
<pre> <DemandForecastPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">738423432</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </pre>	<p>Partners</p>

8.3.4.1 Demand Forecast, continued

Example Markup	Annotation
<pre> </Comment> </AddressInformation> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">82343234</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </DemandForecastPartners> </pre>	
<pre> <DemandForecastDetails> <ForecastLineItems> <LineNumber>1</LineNumber> <ForecastProduct> <BuyerProductCode>2343234</BuyerProductCode> <PackageType>bulk</PackageType> <ShipTo> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">82342343</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </ShipTo> </ForecastProduct> </ForecastLineItems> </DemandForecastDetails> </pre>	Details

8.3.4.1 Demand Forecast, continued

Example Markup	Annotation
<pre> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </ShipTo> <ShipFrom> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23432234</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </ShipFrom> <TransportMode>R</TransportMode> </ForecastProduct> <ForecastHorizon> <DateTimeRange> <FromDate Time="GMT">20010101</FromDate> <ToDate Time="GMT">20011231</ToDate> </DateTimeRange> <Duration TimeUnit="Month">12</Duration> </ForecastHorizon> <Forecasts> <LineNumber>1</LineNumber> <PlanWindow> <DateTimeRange> <FromDate Time="GMT">20010101</FromDate> <ToDate Time="GMT">20010131</ToDate> </DateTimeRange> <Duration TimeUnit="Month">1</Duration> </PlanWindow> <PlanQuantity> <Measurement UnitOfMeasureCode="LBR">5000</Measurement> </PlanQuantity> </Forecasts> </ForecastLineItems> </DemandForecastDetails> </DemandForecastBody> </DemandForecast> </pre>	

8.4 Demand Forecast Response

8.4.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.4.2 Demand Forecast Response Data Model

The following diagrams show the graphical representation of the Demand Forecast Response Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 8.4.2.a: DemandForecastResponse structure to be used for receipt confirmation of demand forecasting transactions



Figure 8.4.2.b: DemandForecastProperties structure

8.4.2 Demand Forecast Response Data Model, continued

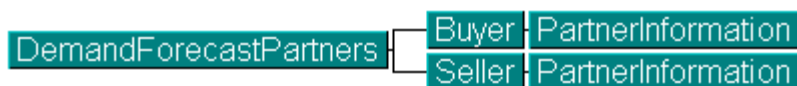


Figure 8.4.2.c: DemandForecastPartners structure



Figure 8.4.2.d: DemandForecastDetails structure.

8.4.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Demand Forecast Response business transaction.

8.4.4 Example Markup

The following are examples of the Demand Forecast Response business transaction:

8.4.4.1 Demand Forecast Response

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE DemandForecastResponse SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\demandforecastconf.dtd"> <DemandForecastResponse> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">12343233</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">83438234</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> </pre>	<p>Header</p>

8.4.4.1 Demand Forecast Response, continued

Example Markup	Annotation
<pre> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <DemandForecastResponseBody> <DemandForecastProperties> <Language>EN</Language> <ForecastReferenceNumber>123456</ForecastReferenceNumber> <ContractNumber>123456</ContractNumber> </DemandForecastProperties> </pre>	Properties
<pre> <DemandForecastPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">12341432</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </Buyer> <Seller> </pre>	Partners

8.4.4.1 Demand Forecast Response, continued

Example Markup	Annotation
<pre> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">823428343</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </DemandForecastPartners> </pre>	
<pre> <DemandForecastDetails> <ForecastLineItems> <LineNumber>1</LineNumber> <ForecastProduct> <BuyerProductCode>23432234</BuyerProductCode> <PackageType>bulk</PackageType> <ShipTo> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">23432123</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </ShipTo> </ForecastProduct> </ForecastLineItems> </DemandForecastDetails> </pre>	Details

8.4.4.1 Demand Forecast Response, continued

Example Markup	Annotation
<pre> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </ShipTo> <ShipFrom> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">834384283</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </ShipFrom> <TransportMode>R</TransportMode> </ForecastProduct> <ForecastHorizon> <DateTimeRange> <FromDate Time="GMT">20010101</FromDate Time> <ToDate Time="GMT">20011231</ToDate Time> </DateTimeRange> <Duration TimeUnit="Month">12</Duration> </ForecastHorizon> <Forecasts> <LineNumber>1</LineNumber> <PlanWindow> <DateTimeRange> <FromDate Time="GMT">20010101</FromDate Time> <ToDate Time="GMT">20010131</ToDate Time> </DateTimeRange> <Duration TimeUnit="Month">1</Duration> </PlanWindow> <PlanQuantity> <Measurement UnitOfMeasureCode="LBR">5000</Measurement> </PlanQuantity> </Forecasts> </ForecastLineItems> </DemandForecastDetails> </DemandForecastResponseBody> </DemandForecastResponse> </pre>	

8.5 Supply Plan

8.5.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.5.2 Supply Plan Data Model

The following diagrams show the graphical representation of the Supply Plan Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

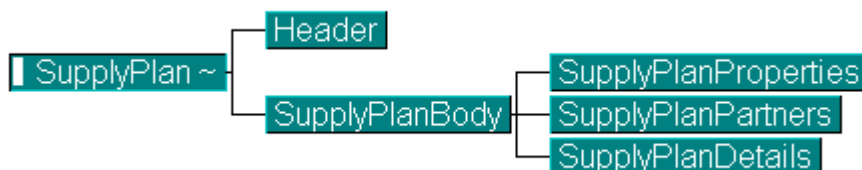


Figure 8.5.2.a: SupplyPlan structure to be used for supply planning transactions.

The above figure also shows:

- SupplyPlanProperties
 - holds information that applies to all the lines in the detail section
- SupplyPlanPartners
 - details partner information for the Buyer and Seller
- SupplyPlanDetails
 - contains quantities per line item of the supply plan
 - a line item specifies product, location, and timing details

8.5.2 Supply Plan Data Model, *continued*

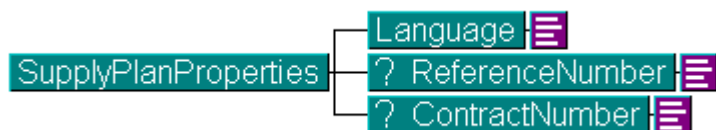


Figure 8.5.2.b: SupplyPlanProperties holds information that applies to all lines in the detail section.



Figure 8.5.2.c: SupplyPlanPartners details partner information for the Buyer and the Seller.

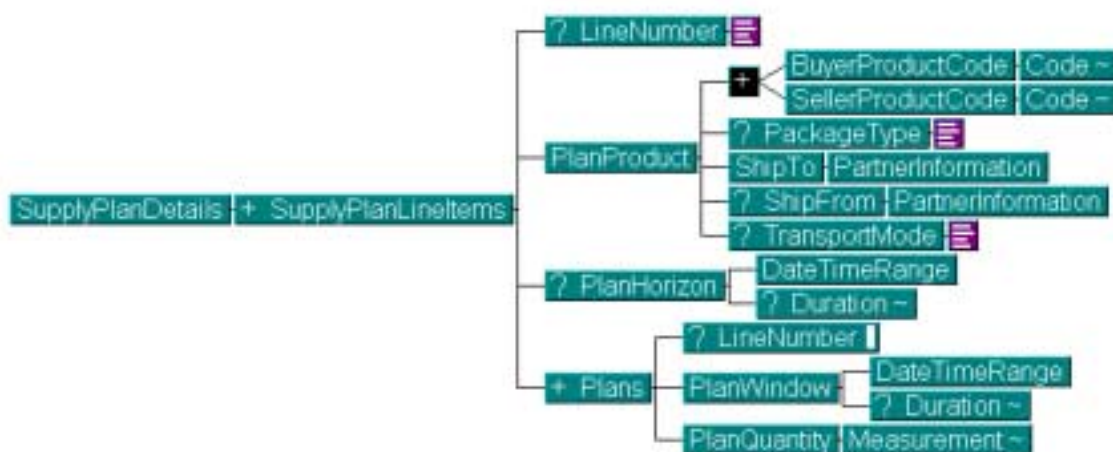


Figure 8.5.2.d: SupplyPlanDetails contains quantities per line item of the supply plan. A line item specifies product, location, and timing details.

[Insert: Description of the structure/model (include notes for special cases, dependencies).]

8.5.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Supply Plan business transaction.

8.5.4 Example Markup

The following are examples of the Supply Plan business transaction:

8.5.4.1 Supply Plan

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE SupplyPlan SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\supplyplan.dtd"> <SupplyPlan> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">12343883</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">873948384</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </SupplyPlan> </pre>	<p>Header</p>

8.5.4.1 Supply Plan, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <SupplyPlanBody> <SupplyPlanProperties> <Language>EN</Language> <ReferenceNumber>123456</ReferenceNumber> <ContractNumber>123456</ContractNumber> </SupplyPlanProperties> </pre>	Properties
<pre> <SupplyPlanPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">823874837</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </Buyer> </pre>	Partners

8.5.4.1 Supply Plan, continued

Example Markup	Annotation
<pre> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">18739483</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </SupplyPlanPartners> </pre>	
<pre> <SupplyPlanDetails> <SupplyPlanLineItems> <LineNumber>1</LineNumber> <PlanProduct> <PackageType>bulk</PackageType> <ShipTo> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">2837483</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </ShipTo> </PlanProduct> </SupplyPlanLineItems> </SupplyPlanDetails> </pre>	Details

8.5.4.1 Supply Plan, continued

Example Markup	Annotation
<pre> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </ShipTo> <ShipFrom> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">83473892</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </ShipFrom> <TransportMode>R</TransportMode> </PlanProduct> <PlanHorizon> <DateTimeRange> <FromDate Time="GMT">20010101</FromDate Time> <ToDate Time="GMT">20011231</ToDate Time> </DateTimeRange> <Duration TimeUnit="Month">12</Duration> </PlanHorizon> <Plans> <LineNumber>1</LineNumber> <PlanWindow> <DateTimeRange> <FromDateTime TimeZone="GMT">20010101</FromDateTime <ToDateTime TimeZone="GMT">20010131</ToDateTime> </DateTimeRange> <Duration TimeUnit="Month">1</Duration> </PlanWindow> <PlanQuantity> <Measurement UnitOfMeasureCode="LBR">5000</Measurement> </PlanQuantity> </Plans> </SupplyPlanLineItems> </SupplyPlanDetails> </SupplyPlanBody> </SupplyPlan> </pre>	

8.6 Supply Plan Response

8.6.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.6.2 Supply Plan Response Data Model

The following diagrams show the graphical representation of the Supply Plan Response Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

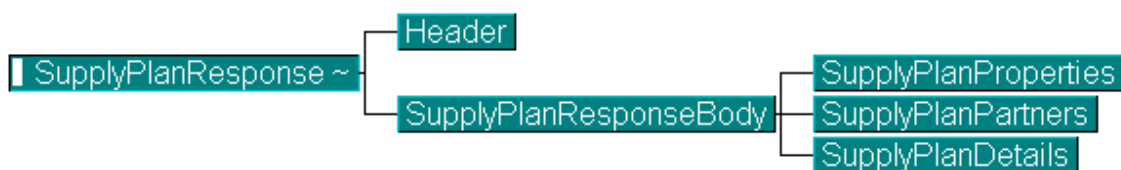


Figure 8.6.2.a: SupplyPlanResponse structure is used for receipt confirmation of supply planning transactions.

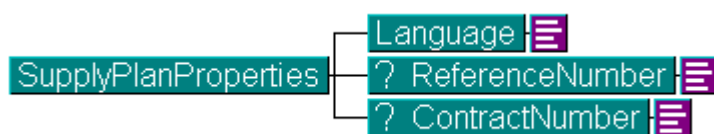


Figure 8.6.2.b: SupplyPlanProperties structure

8.6.2 Supply Plan Response Data Model, *continued*

Figure 8.6.2.c: SupplyPlanPartners structure

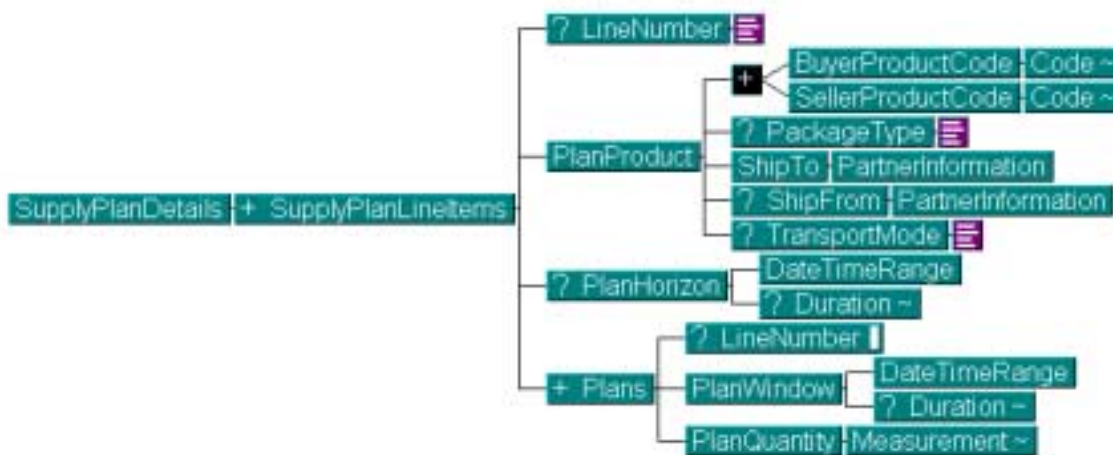


Figure 8.6.2.d: SupplyPlanDetails structure

8.6.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Supply Plan Response business transaction.

8.6.4 Example Markup

The following are examples of the Supply Plan Response business transaction:

8.6.4.1 Supply Plan Response

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE SupplyPlanResponse SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\supplyplanconf.dtd"> <SupplyPlanResponse> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23843892</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">23447839</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </SupplyPlanResponse> </pre>	<p>Header</p>

8.6.4.1 Supply Plan Response, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <SupplyPlanResponseBody> <SupplyPlanProperties> <Language>EN</Language> <ReferenceNumber>123456</ReferenceNumber> <ContractNumber>123456</ContractNumber> </SupplyPlanProperties> </pre>	Properties
<pre> <SupplyPlanPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">1873849</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </pre>	Partners

8.6.4.1 Supply Plan Response, continued

Example Markup	Annotation
<pre> </Buyer> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">28748398</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </SupplyPlanPartners> </pre>	
<pre> <SupplyPlanDetails> <SupplyPlanLineItems> <LineNumber>1</LineNumber> <PlanProduct> <PackageType>bulk</PackageType> <ShipTo> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">287489873</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> </pre>	Details

8.6.4.1 Supply Plan Response, continued

Example Markup	Annotation
<pre> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </ShipTo> <ShipFrom> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">2378463</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </ShipFrom> <TransportMode>R</TransportMode> </PlanProduct> <PlanHorizon> <DateTimeRange> <FromDate Time="GMT">20010101</FromDate Time> <ToDate Time="GMT">20011231</ToDate Time> </DateTimeRange> <Duration TimeUnit="Month">12</Duration> </PlanHorizon> <Plans> <LineNumber>1</LineNumber> <PlanWindow> <DateTimeRange> <FromDateTime TimeZone="GMT">20010101</FromDateTime <ToDateTime TimeZone="GMT">20010131</ToDateTime> </DateTimeRange> <Duration TimeUnit="Month">1</Duration> </PlanWindow> <PlanQuantity> <Measurement UnitOfMeasureCode="LBR">5000</Measurement> </PlanQuantity> </Plans> </SupplyPlanLineItems> </SupplyPlanDetails> </SupplyPlanResponseBody> </SupplyPlanResponse> </pre>	

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8.7 Demand Plan

8.7.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.7.2 Demand Plan Data Model

The following diagrams show the graphical representation of the Demand Plan Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

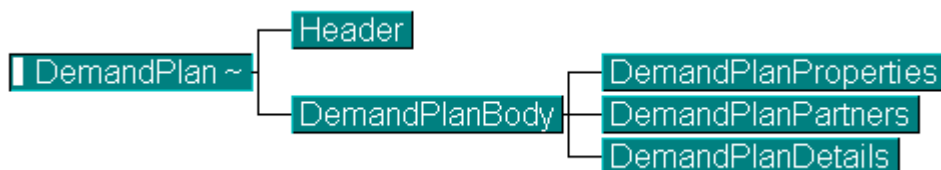


Figure 8.7.2.a: DemandPlan structure is used for demand planning transactions.

The figure above also shows:

- DemandPlanProperties
 - holds information that applies to all the lines in the detail section
- DemandPlanPartners
 - details partner information for the Buyer and Seller
- DemandPlanDetails
 - contains quantities per line item of the Demand Plan Response
 - a line item specifies product, location, and timing details

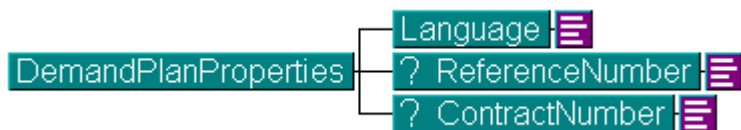
8.7.2 Demand Plan Data Model, *continued*

Figure 8.7.2.b: DemandPlanProperties holds information that applies to all the lines in the detail section.



Figure 8.7.2.c: DemandPlanPartners details partner information for the Buyer and Seller.

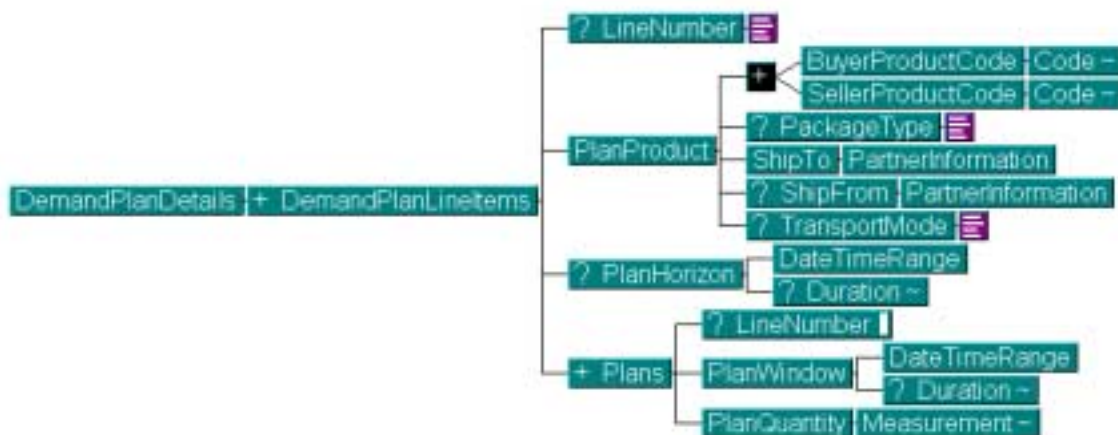


Figure 8.7.2.d: DemandPlanDetails contains quantities per line item of the demand plan. A line item specifies product, location, and timing details.

8.7.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Demand Plan business transaction.

8.7.4 Example Markup

The following are examples of the Demand Plan business transaction:

8.7.4.1 Demand Plan

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE DemandPlan SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\demandplan.dtd"> <DemandPlan> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">387489387</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">287874983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </DemandPlan> </pre>	<p>Header</p>

8.7.4.1 Demand Plan, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <DemandPlanBody> <DemandPlanProperties> <Language>EN</Language> <ReferenceNumber>123456</ReferenceNumber> <ContractNumber>123456</ContractNumber> </DemandPlanProperties> </pre>	Properties
<pre> <DemandPlanPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">23878473</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </pre>	Partners

8.7.4.1 Demand Plan, continued

Example Markup	Annotation
<pre> </Buyer> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">87364763</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </DemandPlanPartners> </pre>	
<pre> <DemandPlanDetails> <DemandPlanLineItems> <LineNumber>1</LineNumber> <PlanProduct> <PackageType>bulk</PackageType> <ShipTo> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">287874383</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </ShipTo> </PlanProduct> </DemandPlanLineItems> </DemandPlanDetails> </pre>	Details

8.7.4.1 Demand Plan, continued

Example Markup	Annotation
<pre> </Comment> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </ShipTo> <ShipFrom> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">2878794873</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </ShipFrom> <TransportMode>R</TransportMode> </PlanProduct> <PlanHorizon> <DateTimeRange> <FromDate Time="GMT">20010101</FromDate> <ToDate Time="GMT">20011231</ToDate> </DateTimeRange> <Duration TimeUnit="Month">12</Duration> </PlanHorizon> <Plans> <LineNumber>1</LineNumber> <PlanWindow> <DateTimeRange> <FromDate Time="GMT">20010101</FromDate> <ToDate Time="GMT">20010131</ToDate> </DateTimeRange> <Duration TimeUnit="Month">1</Duration> </PlanWindow> <PlanQuantity> <Measurement UnitOfMeasureCode="LBR">5000</Measurement> </PlanQuantity> </Plans> </DemandPlanLineItems> </DemandPlanDetails> </DemandPlanBody> </DemandPlan> </pre>	

8.8 Demand Plan Response

8.8.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.8.2 Demand Plan Response Data Model

The following diagrams show the graphical representation of the Demand Plan Response Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 8.8.2.a: DemandPlanResponse structure is used for receipt confirmations of demand planning transactions

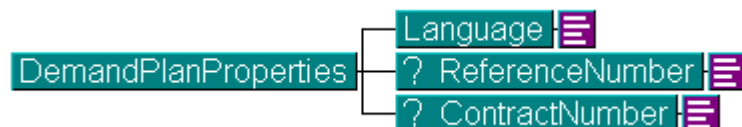


Figure 8.8.2.b: DemandPlanResponse structure

8.8.2 Demand Plan Response Data Model, continued



Figure 8.8.2.c: DemandPlanPartners structure

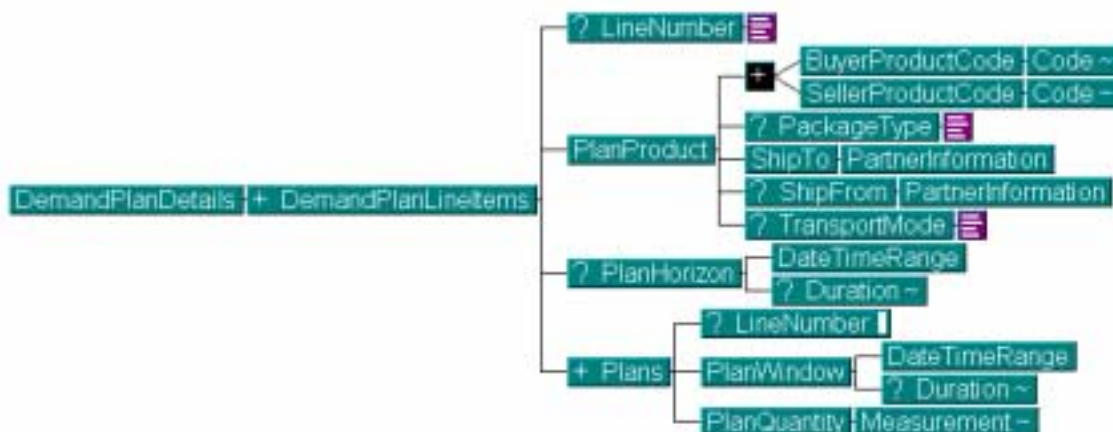


Figure 8.8.2.d: DemandPlanDetails structure

8.8.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Demand Plan Response business transaction.

8.8.4 Example Markup

The following are examples of the Demand Plan Response business transaction:

8.8.4.1 Demand Plan Response

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE DemandPlanResponse SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\demandplanconf.dtd"> <DemandPlanResponse> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">8787787934</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">87467364</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </DemandPlanResponse> </pre>	<p>Header</p>

8.8.4.1 Demand Plan Response, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <DemandPlanResponseBody> <DemandPlanProperties> <Language>EN</Language> <ReferenceNumber>123456</ReferenceNumber> <ContractNumber>123456</ContractNumber> </DemandPlanProperties> </pre>	Properties
<pre> <DemandPlanPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">287398743</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </pre>	Partners

8.8.4.1 Demand Plan Response, continued

Example Markup	Annotation
<pre> </Buyer> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">8387469873</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </DemandPlanPartners> </pre>	
<pre> <DemandPlanDetails> <DemandPlanLineItems> <LineNumber>1</LineNumber> <PlanProduct> <PackageType>bulk</PackageType> <ShipTo> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">28873874</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </ShipTo> </PlanProduct> </DemandPlanLineItems> </DemandPlanDetails> </pre>	Details

8.8.4.1 Demand Plan Response, continued

Example Markup	Annotation
<pre> </Comment> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </ShipTo> <ShipFrom> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </ShipFrom> <TransportMode>R</TransportMode> </PlanProduct> <PlanHorizon> <DateTimeRange> <FromDate Time="GMT">20010101</FromDate> <ToDate Time="GMT">20011231</ToDate> </DateTimeRange> <Duration TimeUnit="Month">12</Duration> </PlanHorizon> <Plans> <LineNumber>1</LineNumber> <PlanWindow> <DateTimeRange> <FromDate Time="GMT">20010101</FromDate> <ToDate Time="GMT">20010131</ToDate> </DateTimeRange> <Duration TimeUnit="Month">1</Duration> </PlanWindow> <PlanQuantity> <Measurement UnitOfMeasureCode="LBR">5000</Measurement> </PlanQuantity> </Plans> </DemandPlanLineItems> </DemandPlanDetails> </DemandPlanResponseBody> </DemandPlanResponse> </pre>	

8.9 Replenishment Proposal Request

8.9.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.9.2 Replenishment Proposal Request Data Model

The following diagrams show the graphical representation of the Replenishment Proposal Request Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 8.9.2.a: ReplenishmentProposalRequest structure to be used for Replenishment Proposal Request transactions.

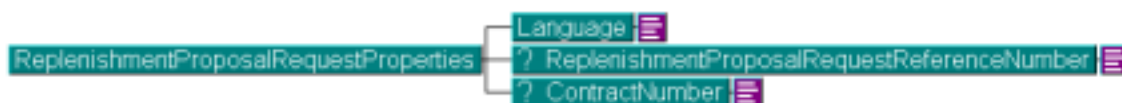


Figure 8.9.2.b: ReplenishmentProposalRequestProperties holds information that applies to all the lines in the detail section.



Figure 8.9.2.c: ReplenishmentProposalRequestPartners details partner information for the Buyer and Seller.

8.9.2 Replenishment Proposal Request Data Model, *continued*

Figure 8.9.2.d: ReplenishmentProposalRequestDetails contains product, quantity, location, and timing details per line item of the Replenishment Proposal Request.

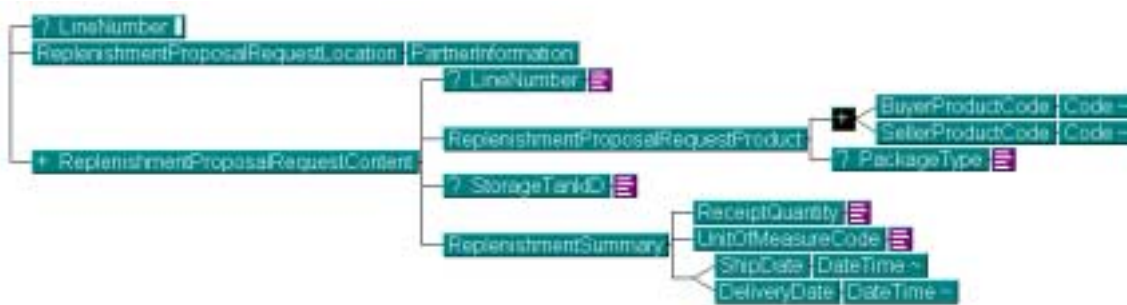


Figure 8.9.2.e: LineNumber, ReplenishmentProposalRequestLocation, and ReplenishmentProposalRequestContent structures

8.9.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Replenishment Proposal Request business transaction.

8.9.4 Example Markup

The following are examples of the Replenishment Proposal Request business transaction:

8.9.4.1 Replenishment Proposal Request

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE ReplenishmentProposal SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\replenishmentproposal.dtd"> <ReplenishmentProposal> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </ReplenishmentProposal> </pre>	<p>Header</p>

8.9.4.1 Replenishment Proposal Request, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <ReplenishmentProposalBody> <ReplenishmentProposalProperties> <Language>EN</Language> <ReplenishmentProposalReferenceNumber>000001</ReplenishmentProposalRefere nceNumber> <ContractNumber>123456</ContractNumber> </ReplenishmentProposalProperties> </pre>	Properties
<pre> <ReplenishmentProposalPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </pre>	Partners

8.9.4.1 Replenishment Proposal Request, continued

Example Markup	Annotation
<pre> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>JAMESONCHEM.COM</URL> </PartnerInformation> </Seller> </ReplenishmentProposalPartners> </pre>	
<pre> <ReplenishmentProposalDetails> <ReplenishmentProposalLineItems> <LineNumber>000001</LineNumber> <ReplenishmentProposalLocation> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> </AddressInformation> </ReplenishmentProposalLocation> </ReplenishmentProposalLineItems> </ReplenishmentProposalDetails> </pre>	Details

8.9.4.1 Replenishment Proposal Request, continued

Example Markup	Annotation
<pre> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </ReplenishmentProposalLocation> <ReplenishmentProposalContent> <LineNumber>0000001</LineNumber> <ProposalProduct> <PackageType>Bulk</PackageType> </ProposalProduct> <StorageTankID>Tank 1</StorageTankID> <ReplenishmentSummary> <ReceiptQuantity>50000</ReceiptQuantity> <UnitOfMeasureCode>lbs</UnitOfMeasureCode> <ShipDate> <DateTime TimeZone="EST">20001215T1300</DateTime> </ShipDate> </ReplenishmentSummary> </ReplenishmentProposalContent> </ReplenishmentProposalLineItems> </ReplenishmentProposalDetails> </ReplenishmentProposalBody> </ReplenishmentProposal> </pre>	

8.10 Replenishment Proposal Response

8.10.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.10.2 Replenishment Proposal Response Data Model

The following diagrams show the graphical representation of the Replenishment Proposal Response Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 8.10.2.a: ReplenishmentProposalResponse structure to be used for replenishment proposal response transactions.

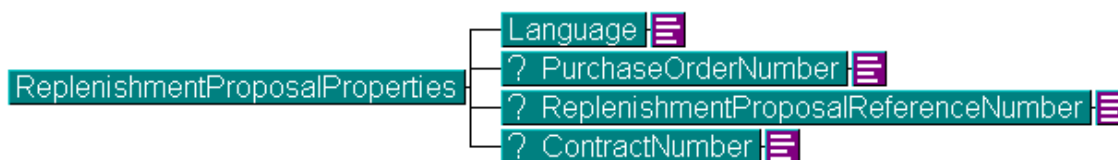


Figure 8.10.2.b: ReplenishmentProposalProperties holds information that applies to all the lines in the detail section.

8.10.2 Replenishment Proposal Response Data Model, *continued*

Figure 8.10.2.c: ReplenishmentProposalPartners details partner information for the Buyer and Seller.



Figure 8.10.2.d: ReplenishmentProposalDetails contains product, quantity, location, and timing details per line item of the replenishment proposal response.

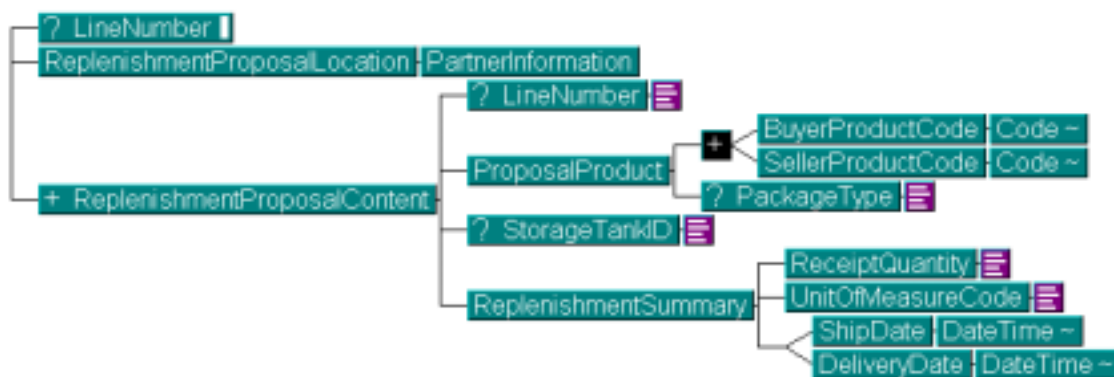


Figure 8.10.2.e: LineNumber, ReplenishmentProposalLocation, and ReplenishmentProposalContent structures.

8.10.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Replenishment Proposal Response business transaction.

8.10.4 Example Markup

The following are examples of the Replenishment Proposal Response business transaction:

8.10.4.1 Replenishment Proposal Response

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE ReplenishmentProposalResponse SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\replenishmentproposalresponse.dtd"> <ReplenishmentProposalResponse> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </ReplenishmentProposalResponse> </pre>	<p>Header</p>

8.10.4.1 Replenishment Proposal Response, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <ReplenishmentProposalResponseBody> <ReplenishmentProposalProperties> <Language>EN</Language> <PONumber>123456</PONumber> <ReplenishmentProposalReferenceNumber>000001</ReplenishmentProposalRefere nceNumber> <ContractNumber>123456</ContractNumber> </ReplenishmentProposalProperties> </pre>	Properties
<pre> <ReplenishmentProposalPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </pre>	Partners

8.10.4.1 Replenishment Proposal Response, continued

Example Markup	Annotation
<pre> </Comment> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>JAMESONCHEM.COM</URL> </PartnerInformation> </Seller> </ReplenishmentProposalPartners> </pre>	
<pre> <ReplenishmentProposalDetails> <ReplenishmentProposalLineItems> <LineNumber>000001</LineNumber> <ReplenishmentProposalLocation> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> </pre>	Details

8.10.4.1 Replenishment Proposal Response, continued

Example Markup	Annotation
<pre> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </ReplenishmentProposalLocation> <ReplenishmentProposalContent> <LineNumber>0000001</LineNumber> <ProposalProduct> <PackageType>Bulk</PackageType> </ProposalProduct> <StorageTankID>Tank 1</StorageTankID> <ReplenishmentSummary> <ReceiptQuantity>50000</ReceiptQuantity> <UnitOfMeasureCode>lbs</UnitOfMeasureCode> <ShipDate> <DateTime TimeZone="EST">20001215T1300</DateTime> </ShipDate> </ReplenishmentSummary> </ReplenishmentProposalContent> </ReplenishmentProposalLineItems> </ReplenishmentProposalDetails> </ReplenishmentProposalResponseBody> </ReplenishmentProposalResponse> </pre>	

8.11 Replenishment Proposal Change

8.11.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.11.2 Replenishment Proposal Change Data Model

The following diagrams show the graphical representation of the Replenishment Proposal Change Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 8.11.2.a: ReplenishmentProposalChange structure to be used for replenishment proposal change transactions.

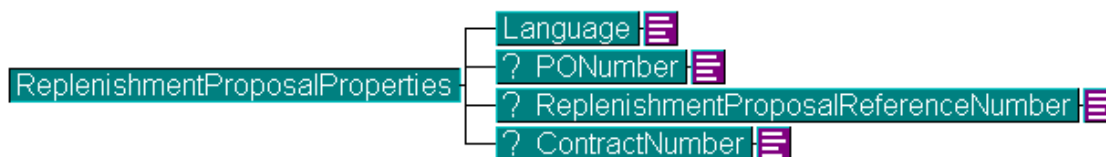


Figure 8.11.2.b: ReplenishmentProposalProperties holds information that applies to all the lines in the detail section.

8.11.2 Replenishment Proposal Change Data Model, continued



Figure 8.11.2.c: ReplenishmentProposalPartners details partner information for the Buyer and Seller.



Figure 8.11.2.d: ReplenishmentProposalDetails contains product, quantity, location, and timing details per line item of the replenishment proposal change.

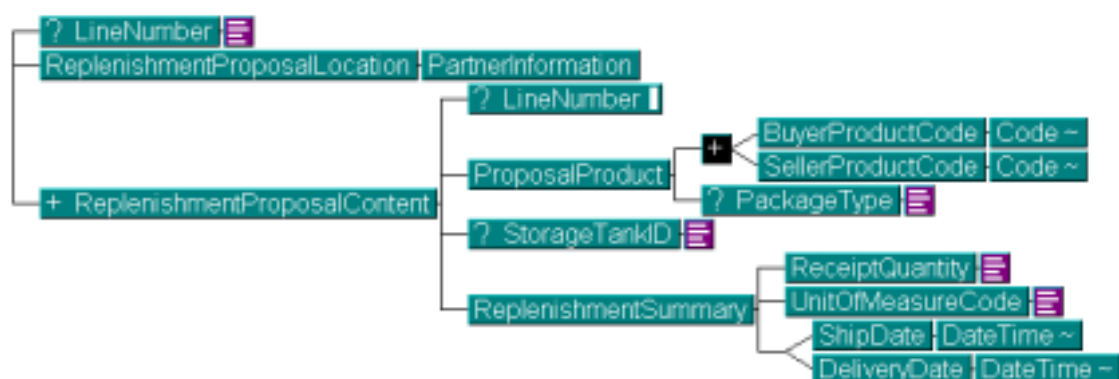


Figure 8.11.2.e: LineNumber, ReplenishmentProposalLocation, and ReplenishmentProposalContent structures

8.11.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Replenishment Proposal Change business transaction.

8.11.4 Example Markup

The following are examples of the Replenishment Proposal Change business transaction:

8.11.4.1 Replenishment Proposal Change

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE ReplenishmentProposalChange SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\replenishmentproposalchange.dtd"> <ReplenishmentProposalChange> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </ReplenishmentProposalChange> </pre>	<p>Header</p>

8.11.4.1 Replenishment Proposal Change, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <ReplenishmentProposalChangeBody> <ReplenishmentProposalProperties> <Language>EN</Language> <PONumber>123456</PONumber> <ReplenishmentProposalReferenceNumber>000001</ReplenishmentProposalRefere nceNumber> <ContractNumber>123456</ContractNumber> </ReplenishmentProposalProperties> </pre>	Properties
<pre> <ReplenishmentProposalPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </pre>	Partners

8.11.4.1 Replenishment Proposal Change, continued

Example Markup	Annotation
<pre> </Comment> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>JAMESONCHEM.COM</URL> </PartnerInformation> </Seller> </ReplenishmentProposalPartners> </pre>	
<pre> <ReplenishmentProposalDetails> <ReplenishmentProposalLineItems> <LineNumber>000001</LineNumber> <ReplenishmentProposalLocation> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </pre>	Details

8.11.4.1 Replenishment Proposal Change, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </ReplenishmentProposalLocation> <ReplenishmentProposalContent> <LineNumber>0000001</LineNumber> <ProposalProduct> <PackageType>Bulk</PackageType> </ProposalProduct> <StorageTankID>Tank 1</StorageTankID> <ReplenishmentSummary> <ReceiptQuantity>50000</ReceiptQuantity> <UnitOfMeasureCode>lbs</UnitOfMeasureCode> <ShipDate> <DateTime TimeZone="EST">20001215T1300</DateTime> </ShipDate> </ReplenishmentSummary> </ReplenishmentProposalContent> </ReplenishmentProposalLineItems> </ReplenishmentProposalDetails> </ReplenishmentProposalChangeBody> </ReplenishmentProposalChange> </pre>	

8.12 Replenishment Proposal Cancel

8.12.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.12.2 Replenishment Proposal Cancel Data Model

The following diagrams show the graphical representation of the Replenishment Proposal Cancel Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 8.12.2.a: ReplenishmentProposal structure to be used for replenishment proposal cancel transactions.

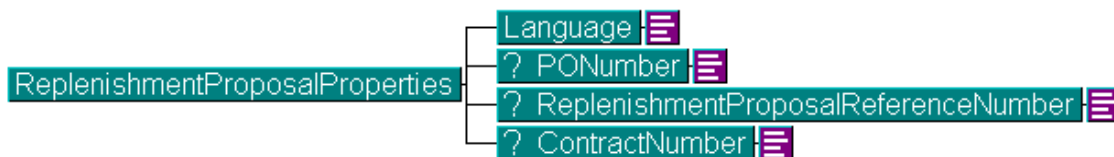


Figure 8.12.2.b: ReplenishmentProposalProperties holds information that applies to all the lines in the detail section.

8.12.2 Replenishment Proposal Cancel Data Model, continued



Figure 8.12.2.c: ReplenishmentProposalPartners details partner information for the Buyer and Seller.



Figure 8.12.2.d: ReplenishmentDetails contains product, quantity, location, and timing details per line item of the replenishment proposal Cancel.

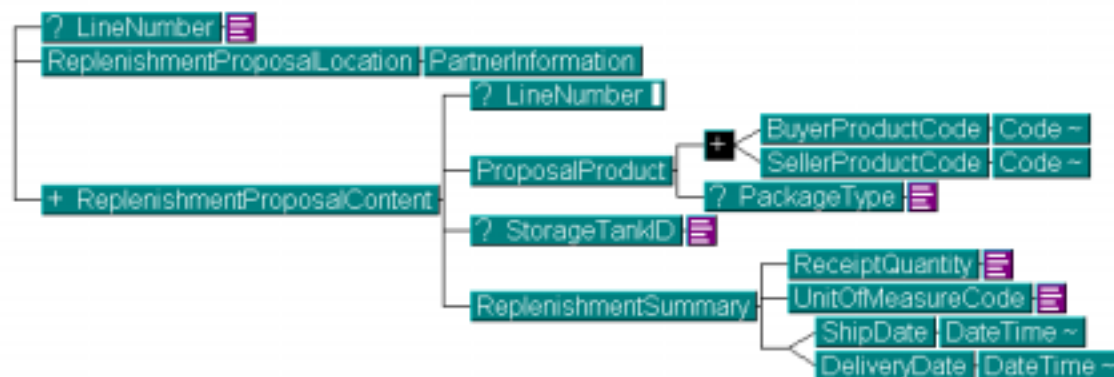


Figure 8.12.2.e: LineNumber, ReplenishmentProposalLocation, and ReplenishmentProposalContent structures

8.12.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Replenishment Proposal Cancel business transaction.

8.12.4 Example Markup

The following are examples of the Replenishment Proposal Cancel business transaction:

8.12.4.1 Replenishment Proposal Cancel

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE ReplenishmentProposalCancel SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\replenishmentproposalcancel.dtd"> <ReplenishmentProposalCancel> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </ReplenishmentProposalCancel> </pre>	<p>Header</p>

8.12.4.1 Replenishment Proposal Cancel, *continued*

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <ReplenishmentProposalCancelBody> <ReplenishmentProposalProperties> <Language>EN</Language> <PONumber>123456</PONumber> <ReplenishmentProposalReferenceNumber>000001</ReplenishmentProposalRefere nceNumber> <ContractNumber>123456</ContractNumber> </ReplenishmentProposalProperties> </pre>	Properties
<pre> <ReplenishmentProposalPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </pre>	Partners

8.12.4.1 Replenishment Proposal Cancel, *continued*

Example Markup	Annotation
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<pre> <ReplenishmentProposalDetails> <ReplenishmentProposalLineItems> <LineNumber>000001</LineNumber> <ReplenishmentProposalLocation> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </pre>	Details

8.12.4.1 Replenishment Proposal Cancel, *continued*

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> <URL>ACMENET.COM</URL> </PartnerInformation> </ReplenishmentProposalLocation> <ReplenishmentProposalContent> <LineNumber>0000001</LineNumber> <ProposalProduct> <PackageType>Bulk</PackageType> </ProposalProduct> <StorageTankID>Tank 1</StorageTankID> <ReplenishmentSummary> <ReceiptQuantity>50000</ReceiptQuantity> <UnitOfMeasureCode>lbs</UnitOfMeasureCode> <ShipDate> <DateTime TimeZone="EST">20001215T1300</DateTime> </ShipDate> </ReplenishmentSummary> </ReplenishmentProposalContent> </ReplenishmentProposalLineItems> </ReplenishmentProposalDetails> </ReplenishmentProposalCancelBody> </ReplenishmentProposalCancel> </pre>	

8.13 Inventory and Actual Usage

8.13.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.13.2 Inventory and Actual Usage Data Model

The following diagrams show the graphical representation of the Inventory and Actual Usage Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 8.13.2.a: InventoryActualUsage structure to be used for inventory and actual usage transactions.

The figure above also shows:

- InventoryActualUsageProperties
 - holds information that applies to all the lines in the detail section
- InventoryActualUsagePartners
 - details partner information for the Buyer and Seller
- InventoryActualUsageDetails
 - contains product, quantity, location, and timing details per line item of the confirmation

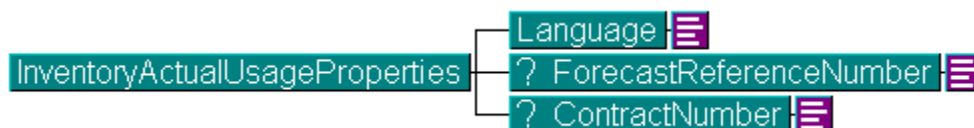


Figure 8.13.2.b: InventoryActualUsageProperties holds information that applies to all lines in the detail section.

8.13.2 Inventory and Actual Usage Data Model, *continued*

Figure 8.13.2.c: InventoryActualUsagePartners details partner information for the Buyer and the Seller.



Figure 8.13.2.d: InventoryActualUsageDetails contains product, quantity, location and timing details per line item of the transaction.

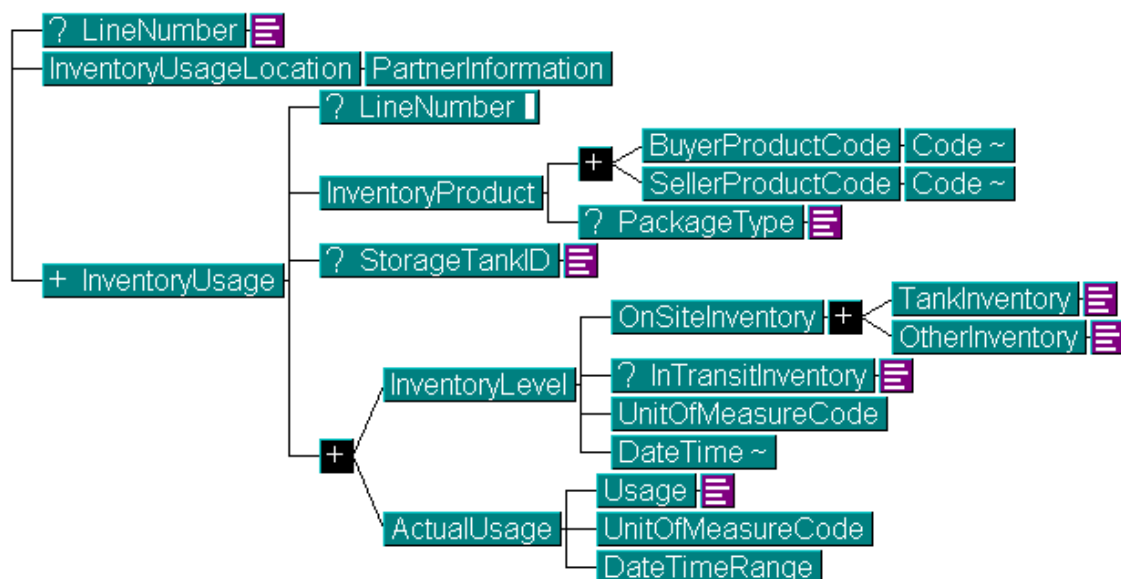


Figure 8.13.2.e: LineNumber, InventoryUsageLocation, and InventoryUsage structures

8.13.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Inventory and Actual Usage business transaction.

8.13.4 Example Markup

The following are examples of the Inventory and Actual Usage business transaction:

8.13.4.1 Inventory and Actual Usage

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE InventoryActualUsage SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\inventoryactualusage.dtd"> <InventoryActualUsage> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </InventoryActualUsage> </pre>	<p>Header</p>

8.13.4.1 Inventory and Actual Usage, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <InventoryActualUsageBody> <InventoryActualUsageProperties> <Language>EN</Language> <ForecastReferenceNumber>000001</ForecastReferenceNumber> <ContractNumber>123456</ContractNumber> </InventoryActualUsageProperties> </pre>	Properties
<pre> <InventoryActualUsagePartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </pre>	Partners

8.13.4.1 Inventory and Actual Usage, continued

Example Markup	Annotation
<pre> </Buyer> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </InventoryActualUsagePartners> </pre>	
<pre> <InventoryActualUsageDetails> <InventoryUsageLineItems> <LineNumber>0000001</LineNumber> <InventoryUsageLocation> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </pre>	Details

8.13.4.1 Inventory and Actual Usage, continued

Example Markup	Annotation
<pre> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </InventoryUsageLocation> <InventoryUsage> <LineNumber>0000001</LineNumber> <InventoryProduct> <PackageType>Bulk</PackageType> </InventoryProduct> <StorageTankID>Tank 1</StorageTankID> <InventoryLevel> <OnSiteInventory> <TankInventory>50000</TankInventory> </OnSiteInventory> <InTransitInventory>25000</InTransitInventory> <UnitOfMeasureCode>lbs</UnitOfMeasureCode> <DateTime TimeZone="EST">20001205T0958</DateTime> </InventoryLevel> </InventoryUsage> </InventoryUsageLineItems> </InventoryActualUsageDetails> </InventoryActualUsageBody> </InventoryActualUsage> </pre>	

8.14 Inventory and Actual Usage Confirmation

8.14.1 Release Information

Jan. 2001	Expanded Release, V2.0
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8.14.2 Inventory and Actual Usage Confirmation Data Model

The following diagrams show the graphical representation of the Inventory and Actual Usage Confirmation Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 8.14.2.a InventoryActualUsageResponse structure to be used for receipt confirmations of inventory and actual usage transactions.

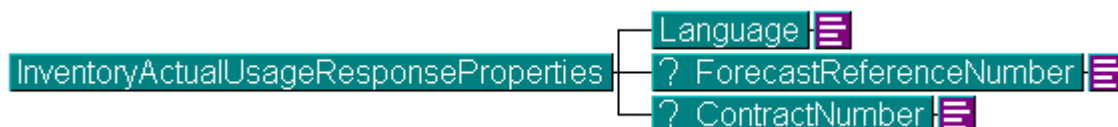


Figure 8.14.2.b: InventoryActualUsageResponseProperties structure

8.14.2 Inventory and Actual Usage Confirmation Data Model, continued

Figure 8.14.2.c: InventoryActualUsageResponsePartners structure



Figure 8.14.2.d: InventoryActualUsageResponseDetails structure

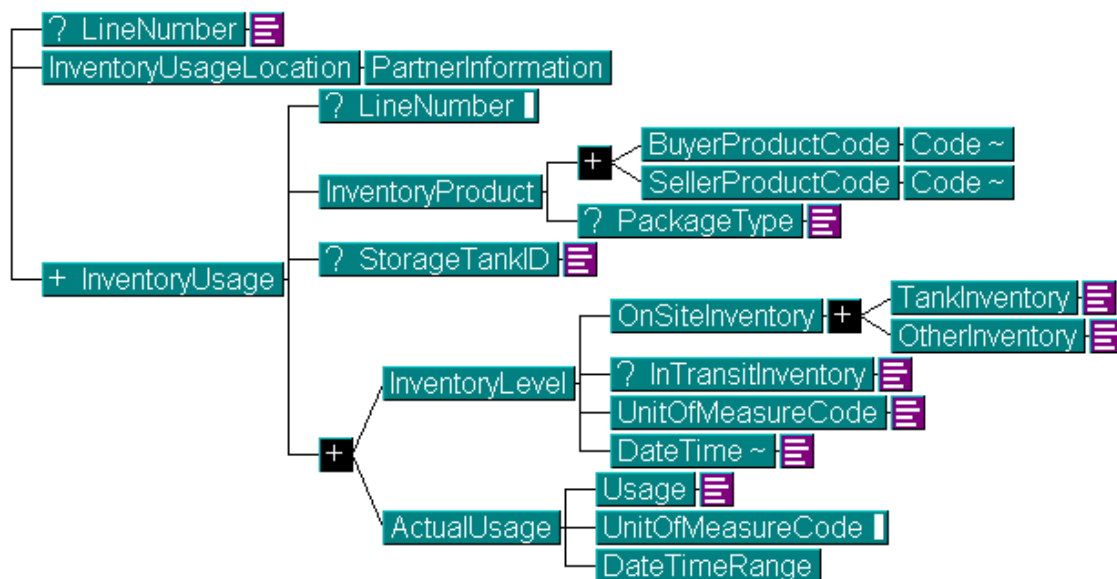


Figure 8.14.2.e: LineNumber, InventoryUsageLocation, and InventoryUsage structures

8.14.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Inventory and Actual Usage Confirmation business transaction.

8.14.4 Example Markup

The following are examples of the Inventory and Actual Usage Confirmation business transaction:

8.14.4.1 Inventory and Actual Usage Confirmation

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE InventoryActualUsageConf SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\inventoryactualusageconf.dtd"> <InventoryActualUsageConf> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </InventoryActualUsageConf> </pre>	<p>Header</p>

8.14.4.1 Inventory and Actual Usage Confirmation, *continued*

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <InventoryActualUsageResponseBody> <InventoryActualUsageProperties> <Language>EN</Language> <ForecastReferenceNumber>000001</ForecastReferenceNumber> <ContractNumber>123456</ContractNumber> </InventoryActualUsageProperties> </pre>	Properties
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8.14.4.1 Inventory and Actual Usage Confirmation, *continued*

Example Markup	Annotation
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<pre> <InventoryActualUsageDetails> <InventoryUsageLineItems> <LineNumber>0000001</LineNumber> <InventoryUsageLocation> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </pre>	Details

8.14.4.1 Inventory and Actual Usage Confirmation, *continued*

Example Markup	Annotation
<pre> </AddressInformation> </PartnerInformation> </InventoryUsageLocation> <InventoryUsage> <LineNumber>0000001</LineNumber> <InventoryProduct> <PackageType>Bulk</PackageType> </InventoryProduct> <StorageTankID>Tank 1</StorageTankID> <InventoryLevel> <OnSiteInventory> <TankInventory>50000</TankInventory> </OnSiteInventory> <InTransitInventory>25000</InTransitInventory> <UnitOfMeasureCode>lbs</UnitOfMeasureCode> <DateTime TimeZone="EST">20001205T0958</DateTime> </InventoryLevel> </InventoryUsage> </InventoryUsageLineItems> </InventoryActualUsageDetails> </InventoryActualUsageResponseBody> </InventoryActualUsageConf> </pre>	

8.15 Delivery Receipt

8.15.1 Release Information

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8.15.2 Delivery Receipt Data Model

The following diagrams show the graphical representation of the Delivery Receipt Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 8.15.2.a: DeliveryReceipt structure to be used for delivery receipt transactions.

The above figure also shows:

- DeliveryReceiptProperties
 - holds information that applies to all the lines in the detail section
- DeliveryReceiptPartners
 - details partner information for the Buyer and Seller
- DeliveryReceiptDetails
 - contains product, quantity, location, and timing details per line item of the confirmation

8.15.2 Delivery Receipt Data Model, continued

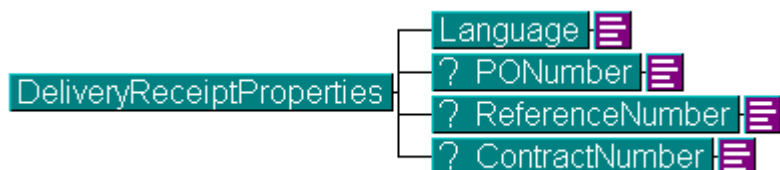


Figure 8.15.2.b: DeliveryReceiptProperties holds information that applies to all the lines in the detail section.

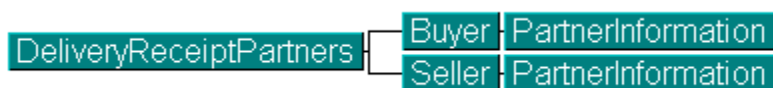


Figure 8.15.2.c: DeliveryReceiptPartners details partner information for the Buyer and Seller.



Figure 8.15.2.d: DeliveryReceiptDetails contains product, quantity, location, and timing details per line item of the transaction.

8.15.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Delivery Receipt business transaction.

8.15.4 Example Markup

The following are examples of the Delivery Receipt business transaction:

8.15.4.1 Delivery Receipt

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE DeliveryReceipt SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\deliveryreceipt.dtd"> <DeliveryReceipt> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </DeliveryReceipt> </pre>	<p>Header</p>

8.15.4.1 Delivery Receipt, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <DeliveryReceiptBody> <DeliveryReceiptProperties> <Language>EN</Language> <PONumber>123456</PONumber> <ReferenceNumber>000001</ReferenceNumber> <ContractNumber>123456</ContractNumber> </DeliveryReceiptProperties> </pre>	Properties
<pre> <DeliveryReceiptPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> </AddressInformation> </pre>	Partners

8.15.4.1 Delivery Receipt, continued

Example Markup	Annotation
<pre> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> </AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </DeliveryReceiptPartners> </pre>	
<pre> <DeliveryReceiptDetails> <DeliveryReceiptLineItems> <LineNumber>000001</LineNumber> <DeliveryReceiptLocation> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </pre>	Details

8.15.4.1 Delivery Receipt, continued

Example Markup	Annotation
<pre> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </DeliveryReceiptLocation> <DeliveryContent> <LineNumber>000001</LineNumber> <DeliveryProduct> <PackageType>Bulk</PackageType> </DeliveryProduct> <StorageTankID>Tank 1</StorageTankID> <ReceiptSummary> <ReceiptQuantity>50000</ReceiptQuantity> <UnitOfMeasureCode>lbs</UnitOfMeasureCode> <DateTime TimeZone="CST">200015161300</DateTime> </ReceiptSummary> </DeliveryContent> </DeliveryReceiptLineItems> </DeliveryReceiptDetails> </DeliveryReceiptBody> </DeliveryReceipt> </pre>	

8.16 Delivery Receipt Response

8.16.1 Release Information

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8.16.2 Delivery Receipt Response Data Model

The following diagrams show the graphical representation of the Delivery Receipt Response Data Model:

Note: The DTD for this business transaction is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 8.16.2.a DeliveryReceiptResponse structure to be used for receipt confirmations of delivery receipt transactions.

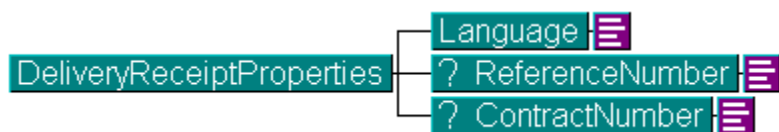


Figure 8.16.2.b: DeliveryReceiptProperties structure

8.16.2 Delivery Receipt Response Data Model, *continued*

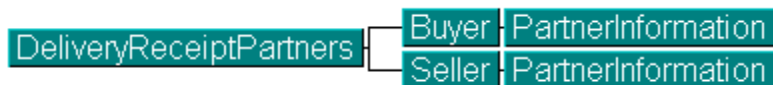


Figure 8.16.2.c: DeliveryReceiptPartners structure

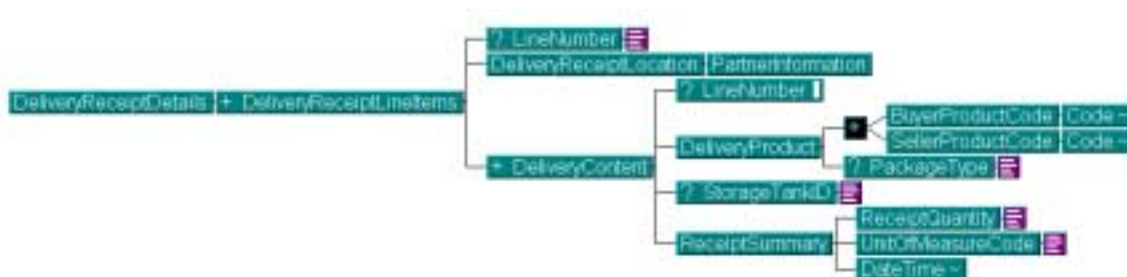


Figure 8.16.2.d: DeliveryReceiptDetails structure

8.16.3 Data Elements and Attributes

There are no unique element and attribute notations required for the Delivery Receipt Response business transaction.

8.16.4 Example Markup

The following are examples of the Delivery Receipt Response business transaction:

8.16.4.1 Delivery Receipt Response

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.0.7 (http://www.xmlspy.com) by Kurt Martin (Andersen Consulting) --> <!DOCTYPE DeliveryReceiptResponse SYSTEM "C:\data\Projects\Chem eStandards\Phase 2\Sample MarkUps\XML DTDs\deliveryreceiptconf.dtd"> <DeliveryReceiptResponse> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>abc12345</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="EST">20001205T1300</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>54321zyx</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="CST">20001205T1200</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </DeliveryReceiptResponse> </pre>	<p>Header</p>

8.16.4.1 Delivery Receipt Response, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </To> </Header> </pre>	
<pre> <DeliveryReceiptBody> <DeliveryReceiptProperties> <Language>EN</Language> <ReferenceNumber>000001</ReferenceNumber> <ContractNumber>123456</ContractNumber> </DeliveryReceiptProperties> </pre>	Properties
<pre> <DeliveryReceiptPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </pre>	Partners

8.16.4.1 Delivery Receipt Response, continued

Example Markup	Annotation
<pre> </Comment> </AddressInformation> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>JamesonChem</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">7838784983</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Bill Robinson</ContactName> <ContactDescription>Transport Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-7890</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>500 Whitmore Ave.</AddressLine> <CityName>Flint</CityName> <StateProvince>MI</StateProvince> <PostalCode>49750</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> </PartnerInformation> </Seller> </DeliveryReceiptPartners> </pre>	
<pre> <DeliveryReceiptDetails> <DeliveryReceiptLineItems> <LineNumber>000001</LineNumber> <DeliveryReceiptLocation> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="DUNS">78364738</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> </pre>	Details

8.16.4.1 Delivery Receipt Response, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </PartnerInformation> </DeliveryReceiptLocation> <DeliveryContent> <LineNumber>000001</LineNumber> <DeliveryProduct> <PackageType>Bulk</PackageType> </DeliveryProduct> <StorageTankID>Tank 1</StorageTankID> <ReceiptSummary> <ReceiptQuantity>50000</ReceiptQuantity> <UnitOfMeasureCode>lbs</UnitOfMeasureCode> <DateTime TimeZone="CST">200015161300</DateTime> </ReceiptSummary> </DeliveryContent> </DeliveryReceiptLineItems> </DeliveryReceiptDetails> </DeliveryReceiptBody> </DeliveryReceiptResponse> </pre>	

9.0 Exchange Interaction

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9.1 Introduction and Scope of Effort

The following are Exchange Interaction business transactions:

Posting Create	The Posting Create document is used to create a buy or sell posting on a Marketplace. It contains both line-item detail for one or more line items and general instructions that apply to all of the line items. Posting Create requests are sent to Marketplaces only and may be sent by Buyers, Sellers, or other Marketplaces.
Posting Change	The Posting Change document is used to request changes to an existing posting. Change requests may be against specific line items or they may relate to the global, posting-level parameters that impact all of the posting's line items. Line item change requests include add, modify, and delete operations. Posting Change requests are sent to Marketplaces only and may be sent by Buyers, Sellers, or other Marketplaces.
Posting Response	The Posting Response message is used to communicate the acceptance or rejection of Posting Create and Posting Change requests. Posting Response messages are only sent by Marketplaces and are sent to the Buyers, Sellers, or other Marketplaces who initiate the Posting Create or Posting Change requests.
PostingCancel	The PostingCancel document is used to request that a posting and all of its line items be removed and rendered inactive. The request has no impact on individual line items that have already been deleted by a previous Posting Change request or accepted by a previous Posting Accept request. PostingCancel requests are sent to Marketplaces only and may be sent by Buyers, Sellers, or other Marketplaces.
Posting Cancel Response	The Posting Cancel Response message is used to communicate the success or failure of a PostingCancel request. Posting Cancel Response messages are only sent by Marketplaces and are sent to Buyers, Sellers, or other Marketplaces who initiate the PostingCancel requests.
Posting Status Request	The Posting Status Request document is a request used to inquire about the status of a specific posting, including the status of its individual line items. Posting Status Request requests are sent to Marketplaces only and may be sent by Buyers, Seller, or other Marketplaces.

9.1 Introduction and Scope of Effort, continued

Posting Status Response	The Posting Status Response message is used to communicate the status of a posting and its individual line items. Although the status of a posting and its line items may be particular to each Marketplace, in general a posting may be active or inactive. If a posting is active, its line items may generally be active, deleted, or accepted. Posting Status Response messages are only sent by Marketplaces. They may be sent to the Buyers, Sellers, or other Marketplaces who initiate Posting Status Request requests, or they may also be “pushed” to Buyers, Sellers, and other Marketplaces without a prior Posting Status Request request.
Posting Accept	The Posting Accept document is a request used to indicate that a buyer or seller wishes to accept one or more line items associated with a posting. The line items are not considered to be accepted, however, until a confirmation is received in a subsequent Posting Accept Response message. Posting Accept requests are sent to Marketplaces only and may be sent by Buyers, Sellers, or other Marketplaces.
Posting Accept Response	The Posting Accept Response message is used to communicate the acceptance or rejection of the Posting Accept Request. Posting Accept Response messages are only sent by Marketplaces and are sent to Buyers, Sellers, or other Marketplaces who initiate the Posting Accept requests.

The Exchange Interactions scope of effort was focused on two objectives:

1. To introduce transaction models and messages relating to **postings**, the principal business objects used by **Exchanges**, a specific type of Marketplace that aggregates and intermediates supply and demand on behalf of Buyers and Sellers.
2. Within the context of Exchanges, to look at how multiple Exchanges (or Marketplaces) might interact and interoperate.

“Exchange” and “Marketplace” is used interchangeably throughout this document.

9.1.1 Key Scope Assumptions

- Postings only exist in the context of an Exchange or Marketplace. Buyers and Sellers do not exPosting Changes directly.
- Exchanges and Marketplaces that originate, host, and manage postings may or may not be homogeneous.
- The business rules governing how postings are processed, displayed, routed, and accepted are particular to each Exchange and Marketplace, and are out of scope.
- Posting attributes and behaviors may be extended or over-ridden by each Exchange and Marketplace subject to prior agreements with the Buyers and Sellers who create the postings.
- Marketplaces and Exchanges only interoperate under mutual agreement.

9.1.2 Key Business Model Assumptions

- Postings may be shared across two or more Exchanges or Marketplaces simultaneously.
- The rules that govern the conditions under which a posting may be exported, and to whom, are primarily established under prior agreements between the Exchanges or Marketplaces and the originators of the postings.
- For postings with restrictions that limit who is allowed to view or accept them, these restrictions are capable of being communicated and enforced across multiple Exchanges or Marketplaces if these postings are exported.
- The Originating Marketplace, i.e., the first Exchange or Marketplace that registers the posting, maintains control of the posting throughout the posting's life-cycle. In particular, a posting cannot be accepted without confirmation of the acceptance from the Originating Marketplace.
- Messages relating to an instance of a posting that was created through a series of Marketplaces must traverse that same series of Marketplaces, even if the identity of the Originating Marketplace is known.
- Exchanges or Marketplaces are capable of hiding or withholding the identities of the Buyers and Sellers they represent.
- Buyers and Sellers may be simultaneously registered and active across multiple Marketplaces.
- Buyer-specific and Seller-specific trading preferences are established by prior agreement with each individual Marketplace and may not be consistent across multiple marketplaces.
- Marketplaces and Exchanges that interoperate take appropriate measures to ensure that postings do not get replicated between them in a circular fashion.
- The individual line items of postings with multiple line items can be canceled, deleted, changed, or accepted independently of one another.

9.2 Business Process Diagrams with Descriptions

9.2.1 Business Model Overview

A **posting** is a business object that represents an intention to either buy or sell a specific product under certain terms and conditions. Postings may therefore be either buy-side or sell-side postings.

Postings exist and are hosted exclusively on Exchanges or Marketplaces that aggregate and intermediate supply and demand on behalf of Buyers and Sellers. The technique used to intermediate supply and demand may vary from one Exchange or Marketplace and another. Examples of intermediation techniques include simple bulletin boards, auctions, and real-time bid-ask trading platforms.

A Buyer or Seller who initially requests the creation of a posting is known as the **posting originator**, or simply as the **originator**.

An Exchange or Marketplace that accepts a posting directly from a Buyer or Seller is known as the **Originating Marketplace** to distinguish it from other Exchanges or Marketplaces that may subsequently host exported instances of the original posting.

In addition to any instructions that may be contained in a posting itself, the general way that an Exchange or Marketplace handles postings is subject to both the Exchange's own business rules and those that are established between itself and its community of Buyers and Sellers under prior agreement. Examples include the types of posting attributes and behaviors that are available, the anonymity of the originator, special filtering criteria that restricts who may see and/or accept a posting, and rules governing what information and to which other Exchanges or Marketplaces a posting may be exported.

Postings are exported from one Marketplace to another when an Exchange or Marketplace wishes to extend the reach or exposure of a posting they originate or host in order to increase the likelihood of matching Buyers and Sellers. This is most likely to occur as Exchanges and Marketplaces develop different advantages or areas of expertise based on products, regions, or customers.

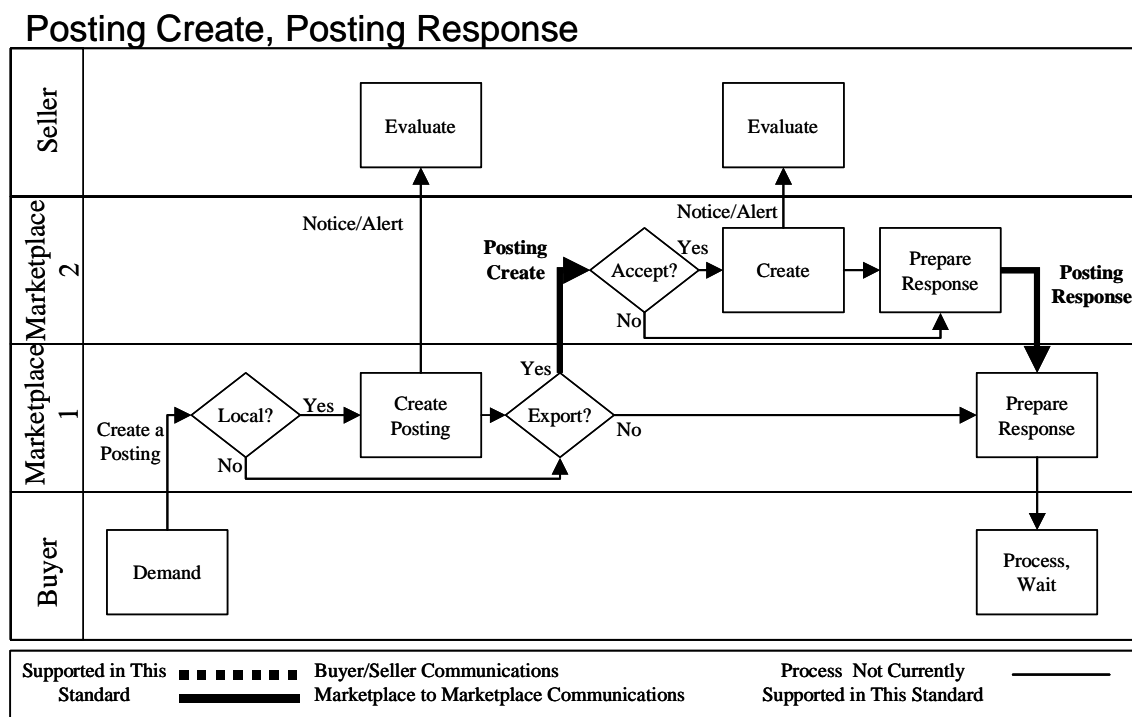
Examples:

- A chemical Buyer at an automotive company accesses the market through an Automotive Exchange. The Automotive Exchange may pass-through, aggregate, or disaggregate chemical postings and then export these postings to one or more Chemical Exchanges.
- A Seller accesses the market through a Chemical Exchange or Marketplace. The Seller wants to specifically target the pulp and paper market in North America for its surplus production. The Seller originates a sell-side posting on the Chemical Exchange, which then exports the posting to a North American Pulp and Paper Exchange.
- Two Chemical Exchanges share similar markets. One Exchange has a surplus demand and the other has a surplus supply for a particular product. By sharing postings, both Exchanges increase the chances of matching their Buyers and Sellers.

9.2.1 Business Model Overview, *continued*

- A general purpose Chemical Exchange receives a posting for a product that is handled by a Chemical exchange that serves a particular niche. The general purpose Exchange may export the posting to the niche Exchange.

Simplified transaction models relating to a Buyer-initiated posting are illustrated in the swim diagrams below. Owing to their inherent symmetry, Seller-initiated postings could be illustrated using the same models simply by swapping the words 'Buyer' and 'Seller' in the swim diagrams and substituting the word 'supply' for 'demand.'



9.2.2 Posting Create, Posting Response

Figure 9.1: Swim diagram illustrating the Posting Create and Posting Response messages.

This swim diagram illustrates the process and transaction model by which a Buyer-initiated posting is created and managed across multiple Marketplaces. A similar swim diagram could be constructed for Seller-initiated postings and would be opposite, but symmetrical, to the diagram shown above.

The Posting Create process begins with a Buyer with a specific demand that places a request with Marketplace M_1 to create a posting on its behalf.

9.2.2 Posting Create, Posting Response, *continued*

As indicated by the narrow line and italics in the swim diagram, the method by which the Posting Create request is communicated to the Marketplace is outside the scope of this standard. The request can be communicated by any one of several means, including telephone, fax, e-mail, browser-based forms, EDI, and XML messages. The eStandards Posting Create message itself could also be used.

The posting request includes, either explicitly or by reference, the following information:

- the identity of the Buyer
- the effective dates of the posting
- supplemental or over-riding preferences or instructions relating to anonymity and whether or not the posting may be exported to other Marketplaces (optional and depending on business rules and prior agreements established between the Buyer and the Marketplace)
- supplemental or over-riding preferences or instructions relating to the intended audience for the posting, i.e., those who may view and/or accept the posting (optional and depending on business rules and prior agreements established between the Buyer and the Marketplace)
- one or more line items corresponding to the Buyer's demand with line-item detail identifying the product needed, the quantities needed, packaging requirements, requested shipment or delivery dates, and so on

M_1 may or may not accept the posting request. M_1 's acceptance or rejection may be a local decision, independent of the acceptance or rejection of any other Marketplace, or it may depend on the responses of other Marketplaces.

M_1 communicates its response to the Buyer, and as indicated by the narrow line and italics in the swim diagram, the response message between the Marketplace and Buyer is outside the scope of this standard. M_1 may therefore communicate its response to the Buyer by any one of several means, including the eStandards Posting Response message defined in this standard.

If the posting is accepted, M_1 may publish the posting locally and notify or alert its community of Sellers. Note, however, that the Sellers who are permitted to view or accept the posting may be restricted per explicit instructions communicated in the posting request, or subject to prior agreement between M_1 and the Buyer.

As indicated by the narrow lines and italics in the swim diagram, the notice/alert messages to Sellers are outside the scope of this standard. Notices and alerts may be communicated by any one of several means. There are no current eStandards messages for communicating these notices or alerts.

M_1 may also export the posting (or selected line items) in addition to, or instead of, publishing it locally. The export decision may be at M_1 's sole discretion, acting as an agent for the Buyer, or under specific instruction or as directed by prior agreement between M_1 and the Buyer.

As illustrated in the swim diagram, M_1 exports the posting to M_2 using the Posting Create message defined in this standard.

The information that is communicated between M_1 and M_2 in the Posting Create message is similar to the information that was communicated in the original posting request submitted by the Buyer. As permitted in this standard, M_1 may conceal the identity of the Buyer when it exports the posting to M_2 . This may be at M_1 's discretion, under specific direction from the Buyer, or under prior agreement between M_1 and the Buyer.

9.2.2 Posting Create, Posting Response, *continued*

If the Buyer has indicated specific trading partner preferences regarding who may see and/or accept their posting, this information must also be communicated to M_2 when the posting is exported, or M_1 and M_2 must have a work-around to prevent M_2 from notifying, alerting, or allowing acceptances from its Sellers that do not meet the Buyer's criteria. The provision for communicating trading partner preferences is included in the Posting Create message, although not required.

M_2 's decision to accept the posting from M_1 is subject to prior agreement between M_1 and M_2 and may be influenced by other factors.

M_2 's decision to accept or reject the posting is communicated to M_1 using the Posting Response message defined in this standard. As illustrated in the swim diagram, M_1 may or may not rely on M_2 's response for formulating its own response to the Buyer.

Note that M_2 does not respond directly to the Buyer, even if M_1 has provided the identity of the Buyer to M_2 . This is based on a business model assumption that multiple communication paths relating to multiple instances of the same posting would lead to unacceptable complexity.

If M_2 accepts the posting, it notifies its community of Sellers in a like manner to M_1 . Again, as indicated by the narrow lines and italics in the swim diagram, these communications are outside the scope of this standard.

It is worth noting that the same Seller, as implied in the swim diagram, may have relationships with both M_1 and M_2 . In this case, the Seller may get two separate notices relating to the same posting, one corresponding to the original instance on M_1 and the other corresponding to the export instance on M_2 . The Seller may or may not be able to recognize that these correspond to the same basic demand originated by the Buyer and the Seller may or may not be able to distinguish between the original instance and the export instance.

The identification codes that Marketplaces assign and use to identify and track postings are critically important in a multiple-Marketplace context. It is assumed that each Marketplace uses its own set of identification codes and that any two Marketplaces who share postings establish by prior agreement which code will be subsequently used to identify and track the postings that are exported between them.

As an example, consider a posting created on M_1 and identified by the code $M_1:P_i$. If M_1 exports the posting to M_2 , then it sends a Posting Create message using its posting identification code, $M_1:P_i$. Whether M_2 accepts or rejects the posting, it needs to reference M_1 's code, $M_1:P_i$, in the Posting Response message.

If M_2 accepts the posting and assigns its own identification code, $M_2:P_j$, it may also communicate this code back to M_1 in the Posting Response message. It may do so as information only or as a confirmation number. But M_1 and M_2 may have also agreed that M_2 's code would become the primary code for any subsequent communications between them regarding the posting. Whatever the agreement, at least one of the two Marketplaces needs to keep a table that stores the mapping between the two identification codes.

With each Marketplace maintaining its own identification codes, an interesting - and potentially dangerous - situation can arise when there are three or more Marketplaces hosting instances of the same posting.

9.2.2 Posting Create, Posting Response, *continued*

Consider M_1 who has a posting it identifies as $M_1:P_i$. It exports this posting to M_2 who identifies the posting as $M_2:P_j$. M_2 , in turn, exports the posting to M_3 who identifies the posting as $M_3:P_k$. So, there are now three instances of the same posting. Now M_3 exports $M_3:P_k$ to M_1 . The standard currently does not provide any mechanism for M_1 to identify that $M_3:P_k$ is the same posting as $M_1:P_i$. If M_1 accepts the posting and identifies it with a new code, $M_1:P_m$, the same posting is replicated on M_1 and could continue to resonate and replicate itself across the three Marketplaces without end.

This could clearly become a serious problem, especially in environments involving promiscuous groups of interoperable Marketplaces or where the Marketplaces involved are highly interactive.

Solving this problem is not addressed in the current version of this standard, and it is therefore a key assumption in the business model that any group of interoperable Marketplaces or Exchanges take appropriate measures to mitigate or prevent “circular replication” from occurring.

[Posting Create Example Markup](#)

[Posting Response Example Markup](#)

9.2.3 Posting Change, Posting Response

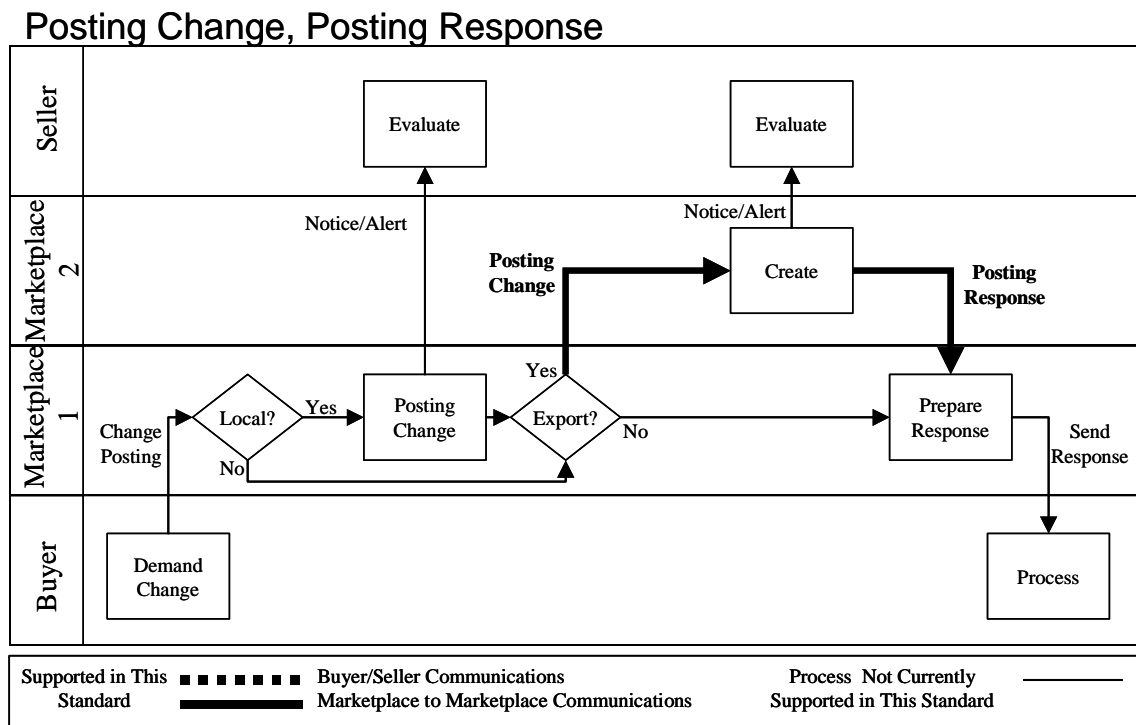


Figure 9.2: Swim diagram illustrating the Posting Change and Posting Response messages.

9.2.3 Posting Change, Posting Response, *continued*

This swim diagram illustrates the process and transaction model in which a Buyer-initiated change to an existing posting is managed across multiple Marketplaces. A similar swim diagram could be constructed for changes relating to Seller-initiated postings and would be opposite, but symmetrical, to the diagram shown above.

Changes to an existing posting can actually be initiated in one of two ways:

1. the Buyer that originally created the posting has a change in the original demand, perhaps as a result of meeting all or part of the original demand through another channel
2. the Buyer's original demand has been partially filled by a Seller's acceptance of one or more of the posting's line items (or by partially filling specific line items if partial fills are permitted by the Marketplace)

There is no material difference, however, in how the change is managed across multiple Marketplaces.

As indicated by the narrow line and italics in the swim diagram, the method by which the Buyer communicates a change-request is outside the scope of this standard. The request can be communicated by any one of several means, including telephone, fax, e-mail, browser-based forms, EDI, and XML messages. The eStandards Posting Change message itself could also be used.

The changes that are requested may be global and affect all of a posting's line items, e.g., the effective dates of the posting or the posting's intended audience, or the changes requested may be against specific line items.

M_1 may or may not accept the change request depending on the type of change requested and the current state of the posting and its line items. M_1 's acceptance or rejection of the changes may be a local decision, independent of the acceptance or rejection of any other Marketplace, or it may depend on the responses of other Marketplaces.

M_1 communicates its response to the Buyer. As indicated by the narrow line and italics in the swim diagram, the response message between the Marketplace and Buyer is outside the scope of this standard. M_1 may therefore communicate its response to the Buyer by any one of several means, including the eStandards Posting Response message defined in this standard.

If the requested changes are accepted and M_1 has published the posting locally, M_1 may notify or alert its community of Sellers subject to the constraints that were discussed in the Posting Create/Posting Response transaction model.

As indicated by the narrow lines and italics in the swim diagram, the notice/alert messages to Sellers are outside the scope of this standard. Notices and alerts may be communicated by any one of several means. There are no current eStandards messages for communicating these notices or alerts.

If M_1 has successfully exported the posting to other Marketplaces, such as M_2 , it is responsible for communicating those changes to the other Marketplaces. As illustrated in the swim diagram, Marketplaces communicate changes using the Posting Change message defined in this standard.

The information communicated between M_1 and M_2 in the Posting Change message is similar to the information that was communicated in the Buyer-initiated change request.

9.2.3 Posting Change, Posting Response, *continued*

The Posting Change message allows for individual line items to be added, selectively modified, or deleted. (Note: If the intention is to delete or inactivate all line items, the PostingCancel message should be used instead.)

The business model assumes that the originating Marketplace, M_1 in this case, maintains control of the posting and its line items throughout the posting's life-cycle. For this reason, whether M_2 makes the appropriate changes or not is irrelevant. If it does not make the changes, M_2 runs the risk that its Sellers may accept a posting based on out-of-date information. The acceptance is then likely blocked by M_1 when it receives a Posting Accept message from M_2 .

M_2 's decision to accept or reject the changes is communicated to M_1 using the same Posting Response message that was introduced in the Posting Create transaction model. As illustrated in the swim diagram, M_1 may or may not rely on M_2 's response for formulating its own response to the Buyer.

Note that M_2 does not respond directly to the Buyer, even if M_1 has provided the identity of the Buyer to M_2 . This is based on a business model assumption that multiple communication paths relating to multiple instances of the same posting would lead to unacceptable complexity.

If M_2 accepts the changes to the posting, it notifies its community of Sellers in a like manner to M_1 . Again, as indicated by the narrow lines and italics in the swim diagram, these communications are outside the scope of this standard.

[Posting Change Example Markup](#)

[Posting Change Response Example Markup](#)

9.2.4 PostingCancel, Posting Cancel Response

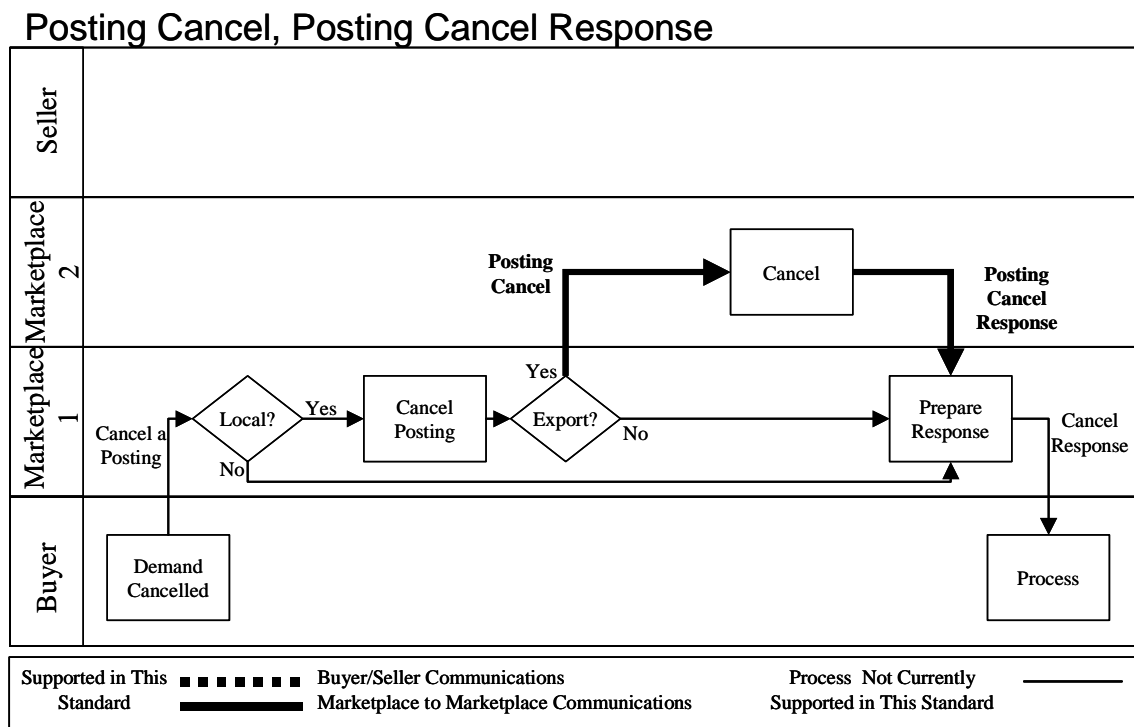


Figure 9.3: Swim diagram illustrating the PostingCancel and Posting Cancel Response messages.

This swim diagram illustrates the process and transaction model in which a Buyer initiates a cancel request against one of its existing postings. A similar swim diagram could be constructed for a Seller-initiated cancel request and would be opposite, but symmetrical, to the diagram shown above.

Cancel requests impact the entire posting, including all the line items. If line items are to be selectively removed, the Posting Change message should be used.

Cancellation requests may occur for two reasons:

1. the Buyer that originally created the posting initiates the request, perhaps as a result of satisfying the original demand through other channels
2. where multiple instances of the same posting exist, an acceptance against one of the instances takes the posting out of play, and therefore all other instances should be canceled

A successful cancellation is one in which the posting and all of its line items are rendered inactive. For example, consider a posting with ten line items. Two of the line items are accepted, and three are deleted as the result of a change-request. A cancellation request would therefore only impact the remaining five line items which have neither been accepted or deleted.

9.2.4 PostingCancel, Posting Cancel Response, *continued*

As indicated by the narrow line and italics in the swim diagram, the method by which the Buyer communicates a cancellation request is outside the scope of this standard. The request can be communicated by any one of several means, including telephone, fax, e-mail, browser-based forms, EDI, and XML messages. The eStandards PostingCancel message itself could also be used.

M_1 's acceptance or rejection of the cancel request, and the cancel results themselves, may be a local decision, independent of the acceptance, rejection, or results of any other Marketplace, or it may depend on the responses of other Marketplaces.

M_1 communicates its response to the Buyer and, as indicated by the narrow line and italics in the swim diagram, the response messages between the Marketplace and Buyer is outside the scope of this standard. The response may be communicated by any one of several means, including the eStandards Posting Cancel Response message defined in this standard.

M_1 is expected to have a record of the other Marketplaces to which it successfully exported the original posting and it is M_1 's responsibility to communicate the cancel request to those marketplaces – M_2 in this case.

M_1 uses the PostingCancel message to forward the cancel request to M_2 . M_2 , in turn, uses the Posting Response message to communicate its acceptance or rejection of the cancel request and the results of the cancel operation.

The PostingCancel message allows for two types of cancellation requests:

1. all or nothing, in which all of the open line items are rendered inactive or none of them are canceled
2. partial, in which all of the open line items are rendered inactive, if possible

A line-item cancellation request might fail because the line-item is locked and in the process of being accepted. Line-item exceptions in a failed cancellation request are communicated in the Posting Cancel Response message.

The business model assumes that the originating Marketplace, M_1 in this case, maintains control of the posting and its line items throughout the posting's life-cycle. For this reason, whether M_2 successfully cancels its export instance of the posting or not is irrelevant. If it does not cancel the posting, M_2 runs the risk that its Sellers may accept a posting based on out-of-date information. The acceptance then is likely blocked by M_1 when it receives an Posting Accept message from M_2 .

[Posting Cancel Example Markup](#)

[Posting Cancel Response Example Markup](#)

9.2.5 Posting Status Request, Posting Status Response

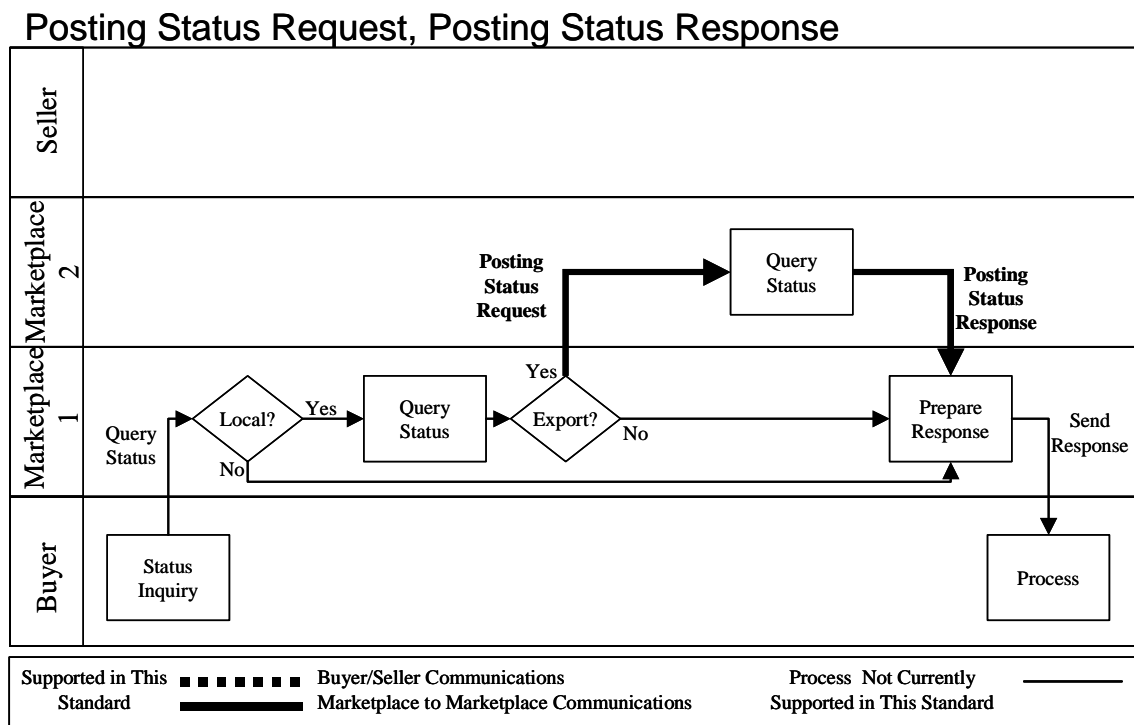


Figure 9.4: Swim diagram illustrating the Posting Status Request and Posting Status Response messages.

This swim diagram illustrates the transaction model for handling a Buyer-initiated Posting Status Request. A similar swim diagram could be constructed for a Seller-initiated status inquiry and would be opposite, but symmetrical, to the diagram shown above.

A status inquiry could also be initiated by a Marketplace that wants to make sure that it has the most current version of a posting or one or more of the posting's line items.

As illustrated in the swim diagram, the means by which a Buyer-initiated or Seller-initiated query is communicated to a Marketplace is outside the scope of this standard.

Likewise, the query response to the Buyer or Seller who initiated the query is outside the scope of the standard.

M_1 's response to the inquiry may be based on local status, independent of the status of the posting on any other Marketplace, or it may depend on the posting's status on other Marketplaces.

To the extent that M_1 queries other Marketplaces regarding a specific posting, it uses the Posting Status Request message. The response is received as a Posting Status Response message.

9.2.5 Posting Status Request, Posting Status Response, continued

In general, the status of a posting can include active, inactive, locked, canceled, or expired items. Individual Exchanges or Marketplaces may provide more detailed status information, e.g., 'received,' 'suspended,' etc.; these are currently outside the scope of the standard.

Line items have individual status which may include active, deleted, accepted, and locked.

[Posting Status Request Example Markup](#)

[Posting Status Example Markup](#)

9.2.6 Posting Accept, Posting Accept Response

Posting Accept, Posting Accept Response

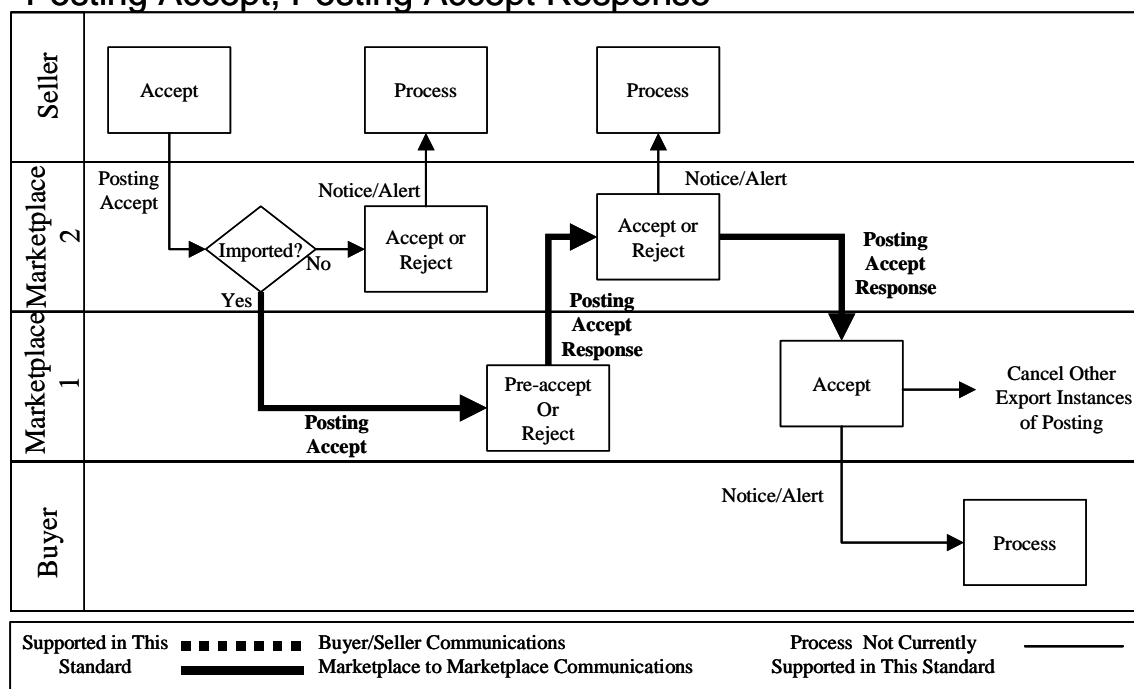


Figure 9.5: Swim diagram illustrating the Posting Status Request and Posting Status Response messages.

This swim diagram illustrates the transaction model for accepting a buy-side posting. A similar swim diagram could be constructed showing the acceptance of a sell-side posting that would be opposite, but symmetrical, to the diagram shown above.

The acceptance model allows individual line items to be accepted independent of one another.

The ability to offer and accept partial quantities of a line-item is Marketplace-specific and subject to prior agreements between Buyers, Sellers, and Marketplaces.

9.2.6 Posting Accept, Posting Accept Response, continued

The means by which a Seller communicates its offer of acceptance is outside the scope of the standard.

The Marketplace that receives the Seller's acceptance, M_2 , evaluates whether it accepts or rejects the Seller's offer. If the posting on M_2 was imported from M_1 , M_2 cannot confirm the acceptance of the posting without first confirming the acceptance with M_1 , the originating Marketplace. M_2 therefore sends M_1 a Posting Accept request.

The Posting Accept request must identify the Seller and it must specify the details of the line items that are being accepted. This gives M_1 the opportunity to confirm that the Seller is acceptable to the Buyer, allows the Seller to indicate a different quantity than that which is indicated in the line-item being accepted (where supported by the Marketplace), and allows M_1 to make sure that the most current versions of the line items are being accepted.

(Note: If the posting that is being accepted were on M_3 , which imported the posting from M_2 , which imported the posting from M_1 , then the acceptance request would have to cascade from M_3 to M_2 to M_1 since M_3 may not know that M_1 is the originating Marketplace.)

M_1 either accepts or rejects the acceptance request. In acceptances involving multiple line items, partial acceptances are subject to the business rules and trading partner agreements of each individual Marketplace.

M_1 responds with the Posting Accept Response message and, if an affirmative response, M_1 must identify the Buyer.

When the acceptance is confirmed, both M_1 and M_2 have all of the information they need to communicate the acceptance to the Buyer and Seller. This communication is outside the scope of this standard.

If an acceptance is confirmed, it is the responsibility of the originating Marketplace, in this case M_1 , to notify other Marketplaces where it has successfully exported the posting that the posting or line items accepted have changed or are no longer available.

[Posting Accept Example Markup](#)

[Posting Accept Response Example Markup](#)

9.3 Posting Create

9.3.1 Release Information

Jan. 2001	Expanded Release, V2.0
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9.3.2 Posting Create Data Model

The following diagrams show the graphical representation of the Posting Create data model.

Note: The Document Type Definition (DTD) for this business message is located in [Appendix E](#).

Key:

Icon	Description
------	-------------

~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 9.6: PostingCreate structure

The “To” and “From” information is contained in the Header element. “To” is always a Marketplace or Exchange. “From” may either be a Buyer, Seller, or another Exchange or Marketplace.

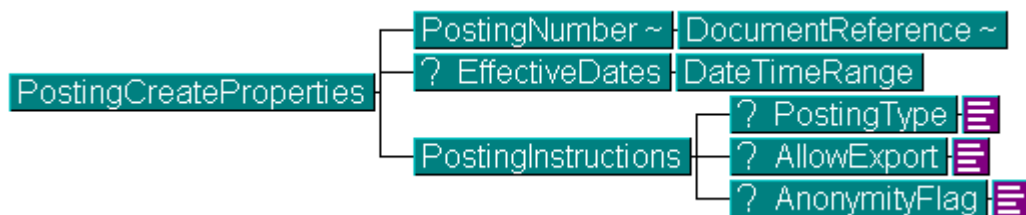
9.3.2 Posting Create Data Model, continued

Figure 9.7: PostingCreateProperties structure

The PostingNumber element has a single attribute called 'Type' that is used to indicate whether the posting is a buy-side or sell-side posting.

The "?" prefix associated with EffectiveDates is considered to be a design error. All postings have a fixed time-period during which they may be active.

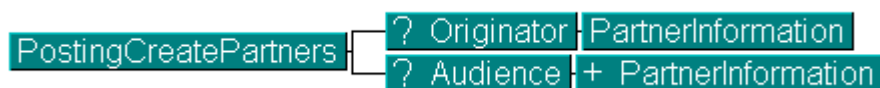


Figure 9.8: PostingCreatePartners structure

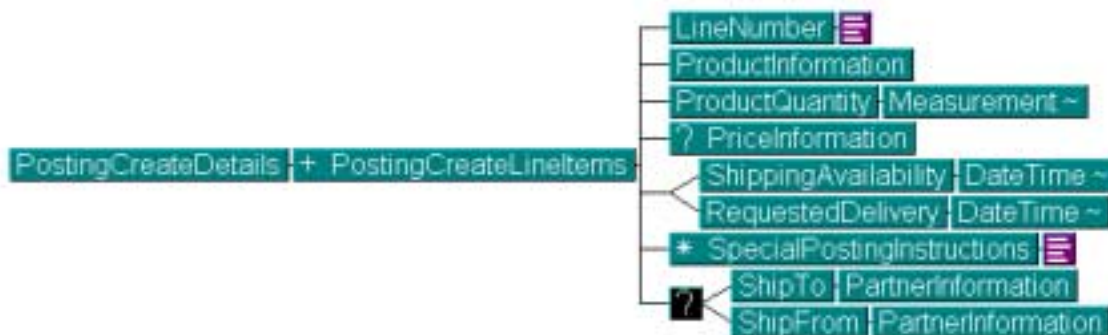


Figure 9.9: PostingCreateDetails structure

9.3.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Posting Create business message:

Element	Notes
PostingNumber	The code the Sender uses to identify the posting Contains a single attribute called 'Type' that is used to indicate whether the posting is a buy-side or sell-side posting.
PostingType	Allows sender to reference a specific posting type that is meaningful to the Exchange or Marketplace and which likely specifies default attributes or behaviors For example, if the destination Marketplace runs auctions with configurable options, this element might be used to distinguish between "English" and "Dutch" auctions. Another Exchange might use this field to distinguish between physical product postings and "paper" postings, e.g., swaps, forward contracts, options, or futures.
AllowExport	This element tells the receiving Exchange or Marketplace whether or not it can export the posting to other Marketplaces It may also indicate whether export is controlled subject to prior agreement. Export rules are also subject to prior agreement.
AnonymityFlag	Indicates to the receiving exchange or marketplace whether the originator wishes to remain anonymous If so, the Marketplace should neither publish the identity of the Originator of the posting, nor forward the Originator's identity on to other Marketplaces or Exchanges. Anonymity is also subject to prior agreement.
Originator	Optionally identifies the Buyer or Seller who originally created the posting when postings are being exported to another Exchange or Marketplace (If a Buyer or Seller is the sender of the Posting Create message, their identity is provided in the "From" element of the Header structure.)
Audience	Identifies a specific list of trading partners for whom the posting is intended, as interpreted by the Marketplace and subject to prior agreements
SpecialPostingInstructions	Free-form text for communicating special instructions applicable to a specific line-item
ShippingAvailability	If a sell-side posting, indicates when the material will be available
RequestedDelivery	If a buy-side posting, indicates when the material should be delivered

9.3.4 Example Markup

The following are examples of the Posting Create business message:

9.3.4.1 Posting Create

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE PostingCreate SYSTEM "C:\CSCPROJS\Standard\Phase II\Documents\PostingCreate.dtd"> <PostingCreate Version="1.2"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCCCRP0708</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010212T080000Z</DateTime> </ThisDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23145</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mr. John Doe</ContactName> <ContactDescription>Product Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>307</AreaCode> <PhoneNumber>323-4544</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>107 Industrial Way</AddressLine> <CityName>Moutain View</CityName> <StateProvince>Wyoming</StateProvince> <PostalCode>82939</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">45- 0983445</TaxIdentifierNumber> <Jurisdiction>United States</Jurisdiction> </TaxInformation> <URL>www.bcc.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> </pre>	<p>Post two line items of supply from a Seller to an exchange.</p>

9.3.4.1 Posting Create, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </To> </Header> <PostingCreateBody> <PostingCreateProperties> <PostingNumber Type="Sell"> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </PostingNumber> <EffectiveDates> <DateTimeRange> <FromDate Time="20010304T080000Z" TimeZone="Z">20010304T080000Z</FromDate> <ToDate Time="20010404T170000Z" TimeZone="Z">20010404T170000Z</ToDate> </DateTimeRange> </EffectiveDates> <PostingInstructions> <PostingType>Auction</PostingType> <AllowExport>N</AllowExport> <AnonymityFlag>Y</AnonymityFlag> </PostingInstructions> </PostingCreateProperties> <PostingCreatePartners> <Originator> <PartnerInformation> <PartnerName>Big Chemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23145</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mr. John Doe</ContactName> <ContactDescription>Product Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>307</AreaCode> <PhoneNumber>323-4544</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>107 Industrial Way</AddressLine> <CityName>Mountain View</CityName> </AddressInformation> </PartnerInformation> </Originator> </PostingCreatePartners> </PostingCreateBody> </pre>	

9.3.4.1 Posting Create, continued

Example Markup	Annotation
<pre> <StateProvince>Wyoming</StateProvince> <PostalCode>82939</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">45- 0983445</TaxIdentifierNumber> <Jurisdiction>United States</Jurisdiction> </TaxInformation> <URL>www.bcc.com</URL> </PartnerInformation> </Originator> <Audience> <PartnerInformation> <PartnerName>USNonCompetitors</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="BCE">USNonCompetitors</Code> </PartnerIdentifier> </PartnerInformation> </Audience> </PostingCreatePartners> <PostingCreateDetails> <PostingCreateLineItems> <LineNumber>1</LineNumber> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">71.080.40 731</ProductIdentifier> <ProductDescription>Formic Acid</ProductDescription> <ProductGradeDescription>Low Impurity</ProductGradeDescription> </ProductIdentification> <ProductSpecifications> <ProductSpecificationName>Viscosity</ProductSpecificationName> <ProductSpecificationValue>0.71</ProductSpecificationValue> <ProductSpecificationUnit>M</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">ASTM</Code> </ProductSpecificationMethod> </ProductSpecifications> <ProductSpecifications> <ProductSpecificationName>PPM Iron </ProductSpecificationName> <ProductSpecificationValue>100</ProductSpecificationValue> <ProductSpecificationUnit>feppm</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">ASTM</Code> </ProductSpecificationMethod> </ProductSpecifications> </ProductInformation> <ProductQuantity> <Measurement UnitOfMeasureCode="GAL"> 300,000 </Measurement> </ProductQuantity> <PriceInformation> </pre>	

9.3.4.1 Posting Create, continued

Example Markup	Annotation
<pre> <UnitPrice GlobalMaterialUnitOfMeasureCode="GAL"> <MonetaryAmount CurrencyCode="USD">1.23 </MonetaryAmount> </UnitPrice> <PriceShippingTerms> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation> Mountain View, Wyoming </ShipmentTermsLocation> </ShipmentTerms> </PriceShippingTerms> </PriceInformation> <ShippingAvailability> <DateTime TimeZone="Z">20010304T080000Z</DateTime> </ShippingAvailability> <SpecialPostingInstructions> Drum labels are in Chinese </SpecialPostingInstructions> </PostingCreateLineItems> <PostingCreateLineItems> <LineNumber>2</LineNumber> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">71.080.90 1897</ProductIdentifier> <ProductDescription>crelylic acid</ProductDescription> <ProductGradeDescription>Industrial</ProductGradeDescription> </ProductIdentification> <ProductSpecifications> <ProductSpecificationName>hydrogen sulphide </ProductSpecificationName> <ProductSpecificationValue>0</ProductSpecificationValue> <ProductSpecificationUnit>hs</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ISO">ISO</Code> </ProductSpecificationMethod> </ProductSpecifications> <ProductSpecifications> <ProductSpecificationName>pyridine bases</ProductSpecificationName> <ProductSpecificationValue>0.006</ProductSpecificationValue> <ProductSpecificationUnit>ppm</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ISO">ISO</Code> </ProductSpecificationMethod> </ProductSpecifications> </ProductInformation> <ProductQuantity> <Measurement UnitOfMeasureCode="GAL">42,000</Measurement> </ProductQuantity> </PriceInformation> </pre>	

9.3.4.1 Posting Create, continued

Example Markup	Annotation
<pre> <UnitPrice GlobalMaterialUnitOfMeasureCode="GAL"> <MonetaryAmount CurrencyCode="USD">.35</MonetaryAmount> </UnitPrice> <PriceShippingTerms> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>Mountain View, Wyoming</ShipmentTermsLocation> </ShipmentTerms> </PriceShippingTerms> </PriceInformation> <ShippingAvailability> <DateTime TimeZone="Z">20010304T080000Z</DateTime> </ShippingAvailability> <SpecialPostingInstructions>Sublimated</SpecialPostingInstructions> </PostingCreateLineItems> </PostingCreateDetails> </PostingCreateBody> </PostingCreate> </pre>	

9.4 Posting Response

9.4.1 Release Information

Jan. 2001	Expanded Release, V2.0
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9.4.2 Posting Response Data Model

The following diagrams show the graphical representation of the Posting Response data model.

Note: The DTD for this business message is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 9.11: Posting Response structure

The “To” and “From” information is contained in the Header element. “From” always indicates an Exchange or Marketplace. “To” can indicate another Exchange or Marketplace, a Buyer, or a Seller.

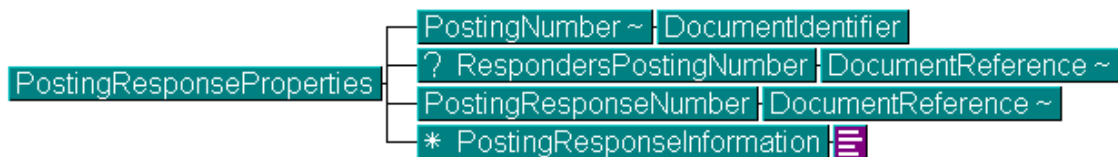


Figure 9.12: PostingResponseProperties structure

9.4.2 Posting Response Data Model, continued



Figure 9.13: PostingResponseDetails structure

9.4.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Posting Response business message:

Element	Notes
PostingNumber	Echos the posting number that was submitted with the Posting Create or Posting Change request. Includes an attribute, "Type" that indicates whether it is a buy-side or sell-side posting.
RespondersPostingNumber	Optionally identifies the number that the exchange who is sending the response uses internally to identify the same posting. Whether this information is required or used is subject to prior agreement.
PostingResponseInformation	Free-form text to clarify the response, as needed This element could be used to indicate whether the response relates to a Posting Create or Posting Change request. It could also be used to communicate a response code, such as whether the Posting Create or Posting Change request was accepted or rejected.
LineItemRequestedAction	Echos the type of action that was requested This is reflected in the attribute value. Valid attribute values are: create, add, delete, modify. A 'create' value is implied in the Posting Create request. The 'add,' 'delete,' and 'modify' values are explicitly stated for each line item in a Posting Change request.

9.4.3 Data Elements and Attributes

Element	Notes
LineItemStatusInformation	This element aliases the StatusInformation structure, giving it an explicit line-item context.
StatusCode	This element aliases the generic Code element which is defined in the data dictionary.
Code	<p>This is a generic element defined in the data dictionary and is used in this context to indicate the status of a line item in response to a Posting Create or Posting Change request.</p> <p>In the Posting Response message, values may include:</p> <ul style="list-style-type: none"> • OK • Failed - line item not found • Failed - line item already accepted • Failed - posting expired • Failed - posting cancelled • Failed - line item already deleted • Failed – other
StatusReason	Optional, free-form text element that can be used to supplement or clarify the value of the Code element

9.4.4 Example Markup

The following are examples of the PostingResponse business message:

9.4.4.1 PostingResponse

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE PostingResponse SYSTEM "C:\CSCPROJS\Standard\Phase II\Documents\PostingResponse.dtd"> <PostingResponse Version="1.2"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCEPR80543</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010212T081200Z</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>BCCCRP0708</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="Z">20010212T080000Z</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23145</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mr. John Doe</ContactName> <ContactDescription>Product Manager</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </PostingResponse> </pre>	<p>Response to a Posting Create that shows both line items are ok.</p>

9.4.4.1 PostingResponse, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>307</AreaCode> <PhoneNumber>323-4544</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>107 Industrial Way</AddressLine> <CityName>Moutain View</CityName> <StateProvince>Wyoming</StateProvince> <PostalCode>82939</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">45- 0983445</TaxIdentifierNumber> <Jurisdiction>United States</Jurisdiction> </TaxInformation> <URL>www.bcc.com</URL> </PartnerInformation> </To> </Header> <PostingResponseBody> <PostingResponseProperties> <PostingNumber Type="Sell"> <DocumentIdentifier>CC17651</DocumentIdentifier> </PostingNumber> <RespondersPostingNumber> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </RespondersPostingNumber> <PostingResponseNumber> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </PostingResponseNumber> </PostingResponseProperties> <PostingResponseDetails> <PostingResponseLineItems> <LineNumber>1</LineNumber> <LineItemRequestedAction Actions="Add"/> <LineItemStatusInformation> <StatusInformation> <StatusCode> <Code Domain="CIDX">OK</Code> </StatusCode> <StatusEffectiveDate> <DateTime TimeZone="Z">20010212T081200Z</DateTime> </StatusEffectiveDate> </StatusInformation> </LineItemStatusInformation> </PostingResponseLineItems> <PostingResponseLineItems> <LineNumber>2</LineNumber> <LineItemRequestedAction Actions="Add"/> <LineItemStatusInformation> </pre>	

9.4.4.1 PostingResponse, continued

Example Markup	Annotation
<pre> <StatusInformation> <StatusCode> <Code Domain="CIDX">OK</Code> </StatusCode> <StatusEffectiveDate> <DateTime TimeZone="Z">20010212T081200Z</DateTime> </StatusEffectiveDate> </StatusInformation> </LinItemStatusInformation> </PostingResponseLinItems> </PostingResponseDetails> </PostingResponseBody> </PostingResponse> </pre>	

9.4.4.2 Posting Response Change

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE PostingResponse SYSTEM "C:\CSCPROJS\Standard\Phase II\Documents\PostingResponse.dtd"> <PostingResponse Version="1.2"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCEPR80981</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010218T175523Z</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>BCCCHP0713</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="Z">20010218T174341Z</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </pre>	<p>Response to a Posting Change that requested a change to line item 2. Shows that change was ok.</p>

9.4.4.2 Posting Response Change, continued

Example Markup	Annotation
<pre> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23145</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mr. John Doe</ContactName> <ContactDescription>Product Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>307</AreaCode> <PhoneNumber>323-4544</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>107 Industrial Way</AddressLine> <CityName>Moutain View</CityName> <StateProvince>Wyoming</StateProvince> <PostalCode>82939</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">45- 0983445</TaxIdentifierNumber> <Jurisdiction>United States</Jurisdiction> </TaxInformation> <URL>www.bcc.com</URL> </PartnerInformation> </To> </Header> <PostingResponseBody> <PostingResponseProperties> <PostingNumber Type="Sell"> <DocumentIdentifier>CC17651</DocumentIdentifier> </PostingNumber> <RespondersPostingNumber> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </RespondersPostingNumber> <PostingResponseNumber> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </PostingResponseNumber> </PostingResponseProperties> <PostingResponseDetails> <PostingResponseLineItems> <LineNumber>2</LineNumber> <LineItemRequestedAction Actions="Modify"/> <LineItemStatusInformation> </pre>	

9.4.4.2 Posting Response Change, *continued*

Example Markup	Annotation
<pre> <StatusInformation> <StatusCode> <Code Domain="CIDX">OK</Code> </StatusCode> <StatusEffectiveDate> <DateTime TimeZone="Z">20010218T175523Z</DateTime> </StatusEffectiveDate> </StatusInformation> </LinItemStatusInformation> </PostingResponseLinItems> </PostingResponseDetails> </PostingResponseBody> </PostingResponse> </pre>	

9.5 Posting Change

9.5.1 Release Information

Jan. 2001	Expanded Release, V2.0
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9.5.2 Posting Change Data Model

The following diagrams show the graphical representation of the Posting Change data model.

Note: The DTD for this business message is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 9.16: PostingChange structure

The “To” and “From” information is contained in the Header element. “To” is always a Marketplace or Exchange. “From” may either be a Buyer, Seller, or another Exchange or Marketplace.

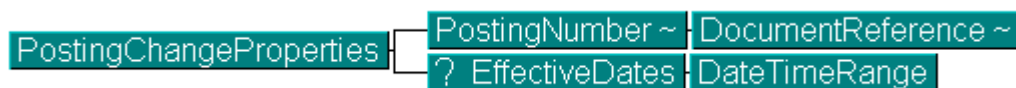


Figure 9.17: PostingChangeProperties structure

The PostingNumber value that is used to communicate the Posting Change request may either be the same number that was used to create the posting, or it may be the number that was issued in the response to the PostingCreate request. This is a matter of agreement between the two parties.

9.5.2 Posting Change Data Model, continued

PostingChangePartners ? Audience + PartnerInformation

Figure 9.18: PostingChangePartners structure

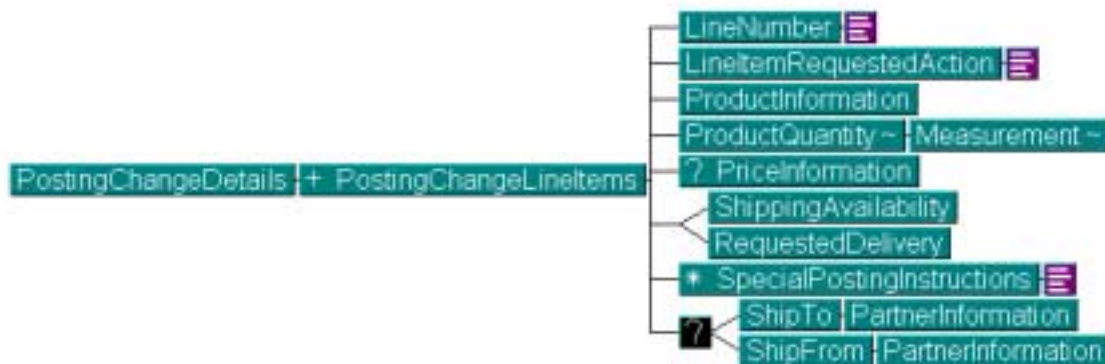


Figure 9.19: PostingChangeDetails structure



Figure 9.21: ShippingAvailability and RequestedDelivery structures

9.5.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Posting Change business message:

Element	Notes
PostingNumber	<p>The tracking number agreed to between the two parties</p> <p>It may either be the original posting number that was submitted with the Posting Create message, or it may be the posting number that was given as a response in the follow-on Posting Response message.</p> <p>This element, consistent with its usage in the Posting Create message, includes a "Type" attribute that indicates whether it is a buy-side or sell-side posting. Under the almost certain assumption that the Marketplace hosting the posting has kept a record of whether the posting is a buy-side or sell-side posting, this is redundant information.</p>
LineItemRequestedAction	<p>Specifies the type of change that is being requested</p> <p>Valid values are: add, delete, modify.</p>
SpecialPostingInstructions	<p>Free-form text for communicating special instructions applicable to a specific line-item</p>
ShippingAvailability	<p>If a sell-side posting, indicates when the material will be available.</p>
RequestedDelivery	<p>If a buy-side posting, indicates when the material should be delivered.</p>
PostingChangePartners	<p>Note that the Originator of a posting cannot be changed, nor can it be added if it was omitted in the Posting Create message</p>

9.5.4 Example Markup

The following are examples of the Posting Change business message:

9.5.4.1 Posting Change

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE PostingChange SYSTEM "C:\CSCPROJS\Standard\Phase II\Documents\PostingChange.dtd"> <PostingChange Version="1.2"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCCCHP0713</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010218T174341Z</DateTime> </ThisDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23145</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mr. John Doe</ContactName> <ContactDescription>Product Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>307</AreaCode> <PhoneNumber>323-4544</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>107 Industrial Way</AddressLine> <CityName>Moutain View</CityName> <StateProvince>Wyoming</StateProvince> <PostalCode>82939</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">45- 0983445</TaxIdentifierNumber> <Jurisdiction>United States</Jurisdiction> </TaxInformation> <URL>www.bcc.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> <TelephoneNumber> </pre>	<p>Modify the quantity on the second line item and nothing else.</p>

9.5.4.1 Posting Change, continued

Example Markup	Annotation
<pre> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </To> </Header> <PostingChangeBody> <PostingChangeProperties> <PostingNumber Type="Sell"> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </PostingNumber> </PostingChangeProperties> <PostingChangePartners/> <PostingChangeDetails> <PostingChangeLineItems> <LineNumber>2</LineNumber> <LineItemRequestedAction>Change</LineItemRequestedAction> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">28384783</ProductIdentifier> </ProductIdentification> </ProductInformation> <ProductQuantity GlobalMaterialUnitOfMeasureCode="Gal"> <Measurement UnitOfMeasureCode="Gal">84,000</Measurement> </ProductQuantity> <ShippingAvailability> <ShippingAvailabilityAfterDateTime/> </ShippingAvailability> </PostingChangeLineItems> </PostingChangeDetails> </PostingChangeBody> </PostingChange> </pre>	

9.6 PostingCancel

9.6.1 Release Information

Jan. 2001	Expanded Release, V2.0
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9.6.2 PostingCancel Data Model

The following diagrams show the graphical representation of the PostingCancel data model.

Note: The DTD for this business message is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 9.25: PostingCancel structure

The “To” and “From” information is contained in the Header element. “To” is always a Marketplace or Exchange. “From” may either be a Buyer, Seller, or another Exchange or Marketplace.



Figure 9.26: PostingCancelProperties structure

9.6.3 Data Elements and Attributes

The following table lists the data elements and attributes for the PostingCancel business message:

Element	Notes
PostingNumber	<p>The tracking number agreed to between the two parties</p> <p>It may either be the original posting number that was submitted with the Posting Create message, or it may be the posting number that was given as a response in the follow-on Posting Response message.</p> <p>This element, consistent with its usage in the Posting Create message, includes a "Type" attribute that indicates whether it is a buy-side or sell-side posting. Under the almost certain assumption that the Marketplace hosting the posting has kept a record of whether the posting is a buy-side or sell-side posting, this is redundant information.</p>
PostingCancelProperties	<p>This element has an attribute, "Type" that is used to indicate whether the cancel request is an "all or nothing" request, meaning that every line item is rendered inactive by the operation or, if one of them cannot, then none are; or whether the request is a "partial" request which means that as many line items as possible are rendered inactive, even if some cannot be canceled.</p>
CancelReason	<p>Optional, free-form text elements that can be used to specify why the cancel request is being issued.</p>

9.6.4 Example Markup

The following are examples of the PostingCancel business message:

9.6.4.1 Posting Cancel

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE PostingCancel SYSTEM "C:\CSCPROJS\Standard\Phase II\Documents\PostingCancel.dtd"> <PostingCancel Version="1.2"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCCCAP0799</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010310T080000Z</DateTime> </ThisDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23145</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mr. John Doe</ContactName> <ContactDescription>Product Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>307</AreaCode> <PhoneNumber>323-4544</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>107 Industrial Way</AddressLine> <CityName>Moutain View</CityName> <StateProvince>Wyoming</StateProvince> <PostalCode>82939</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">45- 0983445</TaxIdentifierNumber> <Jurisdiction>United States</Jurisdiction> </TaxInformation> <URL>www.bcc.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> <TelephoneNumber> </pre>	<p>Attempt to cancel all line items but express the willingness to accept a partial cancel.</p>

9.6.4.1 Posting Cancel, continued

Example Markup	Annotation
<pre> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </To> </Header> <PostingCancelBody> <PostingCancelProperties Type="Partial"> <PostingNumber Type="Sell"> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </PostingNumber> <CancelReason>Lost in stock.</CancelReason> </PostingCancelProperties> </PostingCancelBody> </PostingCancel> </pre>	

9.7 Posting Cancel Response

9.7.1 Release Information

Jan. 2001	Expanded Release, V2.0
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9.7.2 Posting Cancel Response Data Model

The following diagrams show the graphical representation of the Posting Cancel Response data model.

Note: The DTD for this business message is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 9.27: Posting Cancel Response structure

The “To” and “From” information is contained in the Header element. “From” is always a Marketplace or Exchange. “To” may either be a Buyer, Seller, or another Exchange or Marketplace.

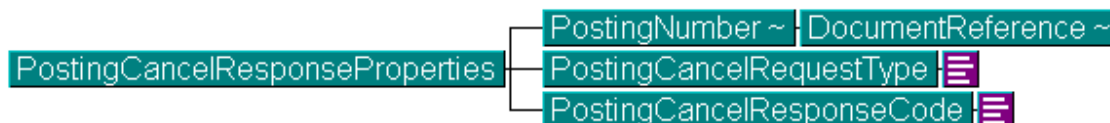


Figure 9.28: PostingCancelResponseProperties structure



Figure 9.30: PostingCancelResponseDetails structure

9.7.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Posting Cancel Response business message:

Element	Notes
PostingNumber	<p>The tracking number agreed to between the two parties</p> <p>It may either be the original posting number that was submitted with the Posting Create message, or it may be the posting number that was given as a response in the follow-on Posting Response message.</p> <p>This element, consistent with its usage in the Posting Create message, includes a "Type" attribute that indicates whether it is a buy-side or sell-side posting. Under the almost certain assumption that the Marketplace hosting the posting has kept a record of whether the posting is a buy-side or sell-side posting, this is redundant information.</p>
PostingCancelRequestType	<p>Indicates whether the cancel request was an "all or nothing request," meaning that every line item is rendered inactive by the operation or, if one of them cannot, then none are; or whether the request was a "partial" request which means that as many line items as possible are rendered inactive, even if some cannot be canceled.</p>
PostingCancelResponseCode	<p>Indicates at a posting level – not a line-item level – the result of the cancel request</p> <p>The response values may depend on an Exchange or Marketplace's particular business rules, but illustrative values include:</p> <p>Completed - all line items inactive or canceled</p> <ul style="list-style-type: none"> • Failed - posting not found • Failed - unauthorized request • Failed - posting already canceled • Failed - posting already expired • Failed - posting already accepted • Failed - unable to lock posting, no line items canceled • Failed - some line items remain active
LineItemStatusInformation	<p>This element aliases the StatusInformation structure, giving it an explicit line-item context</p>
StatusCode	<p>This element aliases the generic Code element which is defined in the data dictionary</p>

9.7.3 Data Elements and Attributes, *continued*

Element	Notes
Code	<p>This is a generic element defined in the data dictionary and is used in this context to indicate the status of a line item in response to a Posting Create or Posting Change request</p> <p>In the Posting Response message, values may include:</p> <ul style="list-style-type: none">• OK• Failed - line item not found• Failed - line item already accepted• Failed - posting expired• Failed - posting cancelled• Failed - line item already deleted• Failed – other
StatusReason	Optional, free-form text element that can be used to supplement or clarify the value of the Code element

9.7.4 Example Markup

The following are examples of the Posting Cancel Response business message:

9.7.4.1 Posting Cancel Response

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE PostingCancelResponse SYSTEM "C:\CSCPROJS\Standard\Phase II\Documents\PostingCancelresponse.dtd"> <PostingCancelResponse Version="1.2"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCECAPR81638</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010310T100000Z</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>BCCCAP0799</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="Z">20010310T080000Z</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23145</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mr. John Doe</ContactName> <ContactDescription>Product Manager</ContactDescription> <TelephoneNumber> </pre>	<p>Response to a PostingCancel request to cancel all line items. Indicates that first line item could not be canceled because it was already accepted. Indicates that second line was canceled.</p>

9.7.4.1 Posting Cancel Response, continued

Example Markup	Annotation
<pre> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>307</AreaCode> <PhoneNumber>323-4544</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>107 Industrial Way</AddressLine> <CityName>Moutain View</CityName> <StateProvince>Wyoming</StateProvince> <PostalCode>82939</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">45- 0983445</TaxIdentifierNumber> <Jurisdiction>United States</Jurisdiction> </TaxInformation> <URL>www.bcc.com</URL> </PartnerInformation> </To> </Header> <PostingCancelResponseBody> <PostingCancelResponseProperties> <PostingNumber Type="Sell"> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </PostingNumber> <PostingCancelRequestType/> <PostingCancelResponseCode/> </PostingCancelResponseProperties> <PostingCancelResponseDetails> <PostingCancelLineItems> <LineNumber>1</LineNumber> <LineItemStatusInformation> <StatusInformation> <StatusCode>Not Cancelled - Accepted</StatusCode> <StatusEffectiveDate> <DateTime TimeZone="Z">20010310T100000Z</DateTime> </StatusEffectiveDate> <StatusReason>This line item was previously accepted.</StatusReason> </StatusInformation> </LineItemStatusInformation> </PostingCancelLineItems> <PostingCancelLineItems> <LineNumber>2</LineNumber> <LineItemStatusInformation> <StatusInformation> <StatusCode>Cancelled</StatusCode> <StatusEffectiveDate> <DateTime TimeZone="Z">20010310T100000Z</DateTime> </StatusEffectiveDate> </StatusInformation> </LineItemStatusInformation> </PostingCancelLineItems> </PostingCancelResponseDetails> </PostingCancelResponseBody> </PostingCancelResponse> </pre>	

9.8 Posting Status Request

9.8.1 Release Information

Jan. 2001	Expanded Release, V2.0
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9.8.2 Posting Status Request Data Model

The following diagrams show the graphical representation of the Posting Status Request data model.

Note: The DTD for this business message is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 9.32: PostingStatusRequest structure

The “To” and “From” information is contained in the Header element. “To” is always a Marketplace or Exchange. “From” may either be a Buyer, Seller, or another Exchange or Marketplace.



Figure 9.33: PostingStatusRequestProperties structure



Figure 9.34: PostingStatusRequestDetails structure.

9.8.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Posting Status Request business message:

Element	Notes
PostingNumber	<p>The tracking number agreed to between the two parties</p> <p>It may either be the original posting number that was submitted with the Posting Create message, or it may be the posting number that was given as a response in the follow-on Posting Response message.</p> <p>This element, consistent with its usage in the Posting Create message, includes a "Type" attribute that indicates whether it is a buy-side or sell-side posting. Under the almost certain assumption that the Marketplace hosting the posting has kept a record of whether the posting is a buy-side or sell-side posting, this is redundant information.</p>
PostingStatusRequestType	<p>Indicates the type of status request</p> <p>Valid values are:</p> <ul style="list-style-type: none"> • posting status • line-item status <p>A value of "posting status" indicates that the status of the posting and all of its line items should be returned.</p> <p>A value of "line-item status" returns the status of specific line items.</p>
PostingStatusRequestDetails	<p>Lists the specific line-item numbers that correspond to a PostingStatusRequestType "line-item status" request</p>

9.8.4 Example Markup

The following are examples of the Posting Status Request business message:

9.8.4.1 Posting Status Request

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE PostingStatusRequest SYSTEM "C:\CSCPROJS\Standard\Phase II\Documents\PostingStatusRequest.dtd"> <PostingStatusRequest Version=""> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCUPSI0431</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010311T080000Z</DateTime> </ThisDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical User</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">87623</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. San Hui</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>245</AreaCode> <PhoneNumber>519-3439</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>6351 South 6th Street</AddressLine> <CityName>Waco</CityName> <StateProvince>TX</StateProvince> <PostalCode>76701</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bcu.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> </PartnerInformation> </To> </Header> </PostingStatusRequest> </pre>	<p>Message from the Buyer requesting status for all line items on a posting.</p>

9.8.4.1 Posting Status Request, *continued*

Example Markup	Annotation
<pre> </ContactInformation> <AddressInformation> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </To> </Header> <PostingStatusRequestBody> <PostingStatusRequestProperties> <PostingNumber Type="Sell"> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </PostingNumber> <PostingStatusRequestType>All</PostingStatusRequestType> </PostingStatusRequestProperties> <PostingStatusRequestDetails> <LineNumber>1</LineNumber> <LineNumber>2</LineNumber> </PostingStatusRequestDetails> </PostingStatusRequestBody> </PostingStatusRequest> </pre>	

9.9 Posting Status Response

9.9.1 Release Information

Jan. 2001	Expanded Release, V2.0
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9.9.2 Posting Status Response Data Model

The following diagrams show the graphical representation of the Posting Status Response data model.

Note: The DTD for this business message is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 9.35: PostingStatusResponse structure

The “To” and “From” information is contained in the Header element. “From” always a Marketplace or Exchange. “To” may either be a Buyer, Seller, or another Exchange or Marketplace.



Figure 9.36: PostingStatusResponseProperties structure

9.9.2 Posting Status Response Data Model

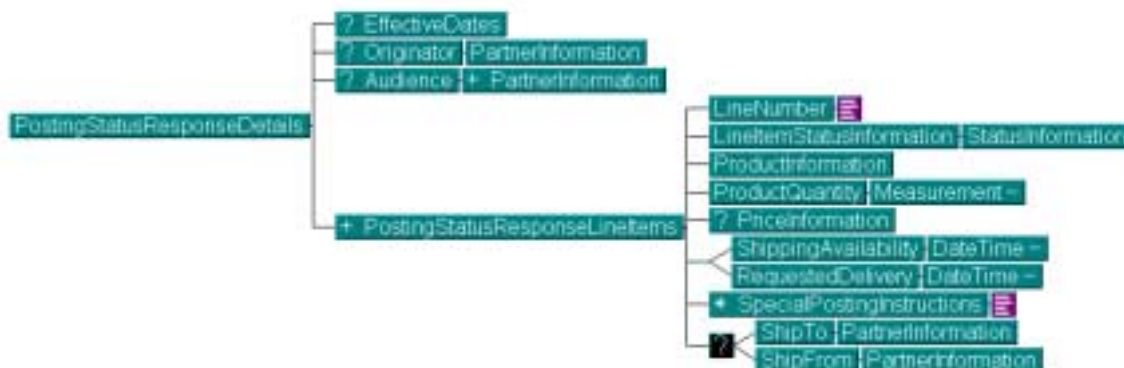


Figure 9.37: PostingStatusResponseDetails structure.

[Insert: Description of the structure/model (include notes for special cases, dependencies).]

9.9.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Posting Status Response business message:

Element	Notes
PostingNumber	<p>The tracking number agreed to between the two parties. It may either be the original posting number that was submitted with the Posting Create message, or it may be the posting number that was given as a response in the follow-on Posting Response message.</p> <p>This element, consistent with its usage in the Posting Create message, includes a “Type” attribute that indicates whether it is a buy-side or sell-side posting. Under the almost certain assumption that the Marketplace hosting the posting has kept a record of whether the posting is a buy-side or sell-side posting, this is redundant information.</p>
PostingStatusResponseCode	Aliases the generic Code element defined in the data dictionary
Code	<p>Generic element defined in the data dictionary</p> <p>As aliased by the PostingStatusResponseCode, this element indicates whether a posting is active, inactive, canceled, or expired. Valid values are:</p> <ul style="list-style-type: none"> • active • inactive • canceled • expired

9.9.3 Data Elements and Attributes, *continued*

Element	Notes
EffectiveDates	Indicates the time period for which a posting may be active and is a property that is applied equally across all of a posting's line items.
Originator	Identifies the originator of the posting and is applied equally across all of a posting's line items
Audience	Identifies the target counterparties or those counterparties who are acceptable Used to prevent a posting from being seen or accepted by parties that are not acceptable. The inclusion or exclusion of specific or general counterparties is also subject to prior agreement and may be established outside of the posting itself.
LineItemStatusInformation	This element aliases the StatusInformation structure, giving it an explicit line-item context
StatusCode	This element aliases the generic Code element which is defined in the data dictionary
Code	This is a generic element defined in the data dictionary and is used in this context to indicate the status of a line item in response to a Posting Create or Posting Change request In the Posting Response message, values may include: <ul style="list-style-type: none"> • OK • Failed - line item not found • Failed - line item already accepted • Failed - posting expired • Failed - posting canceled • Failed - line item already deleted • Failed – other
StatusReason	Optional, free-form text element that can be used to supplement or clarify the value of the Code element

9.9.4 Example Markup

The following are examples of the Posting Status Response business message:

9.9.4.1 Posting Status

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE PostingStatusResponse SYSTEM "C:\CSCPROJS\Standard\Phase II\Documents\PostingStatusResponse.dtd"> <PostingStatusResponse Version="1.2"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCEPS83093</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010311T080104Z</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>BCUPS10431</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="Z">20010311T080000Z</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical User</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">87623</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. San Hui</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </PostingStatusResponse> </pre>	<p>Message from the exchange to the Buyer responding to a Posting Status Request message. Shows that the first line has been accepted. Shows that the second line has changed and has been cancelled. Note that while the cancel is clear from the status, the change can only be determined by comparing to a Posting Status Response message from prior to the change.</p>

9.9.4.1 Posting Status, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>245</AreaCode> <PhoneNumber>519-3439</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>6351 South 6th Street</AddressLine> <CityName>Waco</CityName> <StateProvince>TX</StateProvince> <PostalCode>76701</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bcu.com</URL> </PartnerInformation> </To> </Header> <PostingStatusResponseBody> <PostingStatusResponseProperties> <PostingNumber Type="Buy"> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </PostingNumber> <PostingStatusResponseCode> <Code Domain="CIDX">Closed</Code> </PostingStatusResponseCode> </PostingStatusResponseProperties> <PostingStatusResponseDetails> <EffectiveDates> <DateTimeRange> <FromDate Time=" TimeZone="CST">20010311T080104Z</FromDate Time> <ToDate Time=" TimeZone=""> </DateTimeRange> </EffectiveDates> <Originator> <PartnerInformation> <PartnerName/> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain=""> </PartnerIdentifier> <ContactInformation> <ContactName/> <ContactDescription/> <TelephoneNumber> <TelecomCountryCode/> <AreaCode/> <PhoneNumber/> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine/> <CityName/> <StateProvince/> <PostalCode/> <PostalCountry/> <LocationCode/> </Originator> </PostingStatusResponseDetails> </PostingStatusResponseBody> </pre>	

9.9.4.1 Posting Status, continued

Example Markup	Annotation
<pre> <Code Domain=""/> </LocationCode> <Comment> <Content/> </Comment> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType=""/> <Jurisdiction/> <TaxCertificateType> <Code Domain=""/> </TaxCertificateType> <TaxCertificateNumber/> <TaxBasis/> <TaxRate/> <EffectiveDates> <DateTimeRange> <FromDate DateTime="" Timezone=""/> <ToDate DateTime="" Timezone=""/> </DateTimeRange> </EffectiveDates> </TaxInformation> <URL/> </PartnerInformation> </Originator> <Audience> <PartnerInformation> <PartnerName/> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain=""/> </PartnerIdentifier> <ContactInformation> <ContactName/> <ContactDescription/> <TelephoneNumber> <TelecomCountryCode/> <AreaCode/> <PhoneNumber/> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine/> <CityName/> <StateProvince/> <PostalCode/> <PostalCountry/> <LocationCode> <Code Domain=""/> </LocationCode> <Comment> <Content/> </Comment> </AddressInformation> </PartnerInformation> <TaxInformation> <TaxIdentifierNumber TaxType=""/> <Jurisdiction/> <TaxCertificateType> <Code Domain=""/> </TaxCertificateType> </TaxInformation> </pre>	

9.9.4.1 Posting Status, continued

Example Markup	Annotation
<pre> </TaxCertificateType> <TaxCertificateNumber/> <TaxBasis/> <TaxRate/> <EffectiveDates> <DateTimeRange> <FromDateTime TimeZone=""/> <ToDateTime TimeZone=""/> </DateTimeRange> </EffectiveDates> </TaxInformation> <URL/> </PartnerInformation> </Audience> <PostingStatusResponseLineItems> <LineNumber>1</LineNumber> <LineItemStatusInformation> <StatusInformation> <StatusCode>Accepted</StatusCode> <StatusEffectiveDate>20010224T030628Z</StatusEffectiveDate> </StatusInformation> </LineItemStatusInformation> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">71.080.40 731</ProductIdentifier> <ProductDescription>Formic Acid</ProductDescription> <ProductGradeDescription>Low Impurity</ProductGradeDescription> </ProductIdentification> <ProductSpecifications> <ProductSpecificationName>Viscosity</ProductSpecificationName> <ProductSpecificationValue>0.71</ProductSpecificationValue> <ProductSpecificationUnit>M</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">ASTM</Code> </ProductSpecificationMethod> </ProductSpecifications> <ProductSpecifications> <ProductSpecificationName>PPM Iron</ProductSpecificationName> <ProductSpecificationValue>100</ProductSpecificationValue> <ProductSpecificationUnit>feppm</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">ASTM</Code> </ProductSpecificationMethod> </ProductSpecifications> </ProductInformation> <ProductQuantity> <Measurement UnitOfMeasureCode="GAL">300,000</Measurement> </ProductQuantity> <PriceInformation> <UnitPrice GlobalMaterialUnitOfMeasureCode="GAL"> <MonetaryAmount CurrencyCode="USD">1.23</MonetaryAmount> </UnitPrice> </pre>	

9.9.4.1 Posting Status, continued

Example Markup	Annotation
<pre> <PriceShippingTerms> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>Mountain View, Wyoming</ShipmentTermsLocation> </ShipmentTerms> </PriceShippingTerms> </PriceInformation> <ShippingAvailability> <DateTime TimeZone="Z">20010304T080000Z</DateTime> </ShippingAvailability> <SpecialPostingInstructions>Drum labels are in Chinese</SpecialPostingInstructions> </PostingStatusResponseLineItems> <PostingStatusResponseLineItems> <LineNumber>2</LineNumber> <LineItemStatusInformation> <StatusInformation> <StatusCode>Canceled</StatusCode> <StatusEffectiveDate>20010311T080000Z</StatusEffectiveDate> </StatusInformation> </LineItemStatusInformation> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">71.080.90 1897</ProductIdentifier> <ProductDescription>cresylic acid</ProductDescription> <ProductGradeDescription>Industrial</ProductGradeDescription> </ProductIdentification> <ProductSpecifications> <ProductSpecificationName>hydrogen sulphide </ProductSpecificationName> <ProductSpecificationValue>0</ProductSpecificationValue> <ProductSpecificationUnit>hs</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ISO">ISO</Code> </ProductSpecificationMethod> </ProductSpecifications> <ProductSpecifications> <ProductSpecificationName>pyridine bases</ProductSpecificationName> <ProductSpecificationValue>0.006</ProductSpecificationValue> <ProductSpecificationUnit>ppm</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ISO">ISO</Code> </ProductSpecificationMethod> </ProductSpecifications> </ProductInformation> <ProductQuantity> <Measurement UnitOfMeasureCode="GAL">84,000</Measurement> </ProductQuantity> <PriceInformation> <UnitPrice GlobalMaterialUnitOfMeasureCode="GAL"> <MonetaryAmount CurrencyCode="USD">.35</MonetaryAmount> </pre>	

9.9.4.1 Posting Status, *continued*

Example Markup	Annotation
<pre> </UnitPrice> <PriceShippingTerms> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">FOB</Code> </ShipmentTermsCode> <ShipmentTermsLocation>Mountain View, Wyoming</ShipmentTermsLocation> </ShipmentTerms> </PriceShippingTerms> </PriceInformation> <ShippingAvailability> <DateTime TimeZone="Z">20010304T080000Z</DateTime> </ShippingAvailability> <SpecialPostingInstructions>Sublimated</SpecialPostingInstructions> </PostingStatusResponseLineItems> </PostingStatusResponseDetails> </PostingStatusResponseBody> </PostingStatusResponse> </pre>	

9.10 Posting Accept

9.10.1 Release Information

Jan. 2001	Expanded Release, V2.0
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9.10.2 Posting Accept Data Model

The following diagrams show the graphical representation of the Posting Accept data model.

Note: The DTD for this business message is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 9.40: PostingAccept structure

The “To” and “From” information is contained in the Header element. “To” is always a Marketplace or Exchange. “From” may either be a Buyer, Seller, or another Exchange or Marketplace.

A diagram showing the structure of the PostingAccept element. It consists of three rectangular boxes arranged horizontally, separated by vertical lines. The first box contains the text 'PostingAcceptProperties', the second box contains 'PostingNumber ~', and the third box contains 'DocumentReference ~'.

PostingAcceptProperties | PostingNumber ~ | DocumentReference ~

Figure 9.41: PostingAcceptProperties structure

9.10.2 Posting Accept Data Model, *continued*

Figure 9.42: PostingAcceptPartners structure

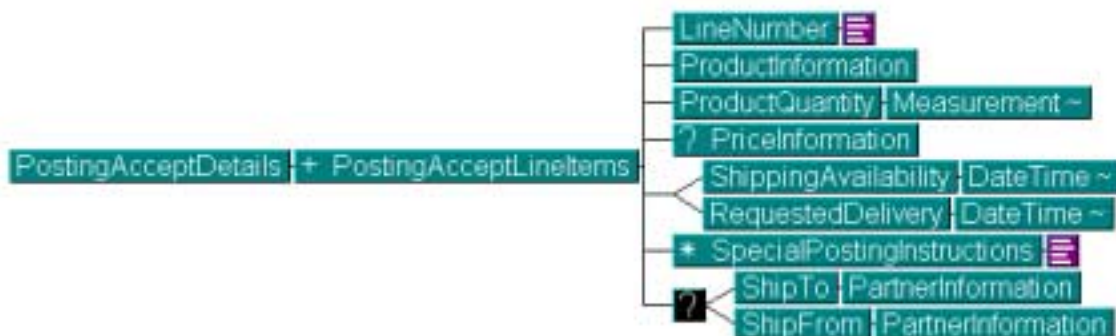


Figure 9.44: PostingAcceptDetails structure

9.10.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Posting Accept business message:

Element	Notes
PostingNumber	<p>The tracking number agreed to between the two parties</p> <p>It may either be the original posting number that was submitted with the Posting Create message, or it may be the posting number that was given as a response in the follow-on Posting Response message.</p> <p>This element, consistent with its usage in the Posting Create message, includes a "Type" attribute that indicates whether it is a buy-side or sell-side posting. Under the almost certain assumption that the Marketplace hosting the posting has kept a record of whether the posting is a buy-side or sell-side posting, this is redundant information.</p>
PostingAcceptPartners	<p>This element identifies either the Buyer or the Seller, depending on whether a buy-side or sell-side posting is being accepted</p>
PostingAcceptLineItems	<p>This element is a structure that explicitly states what the accepting party thinks they are accepting</p> <p>This is necessary because it is easy for a Buyer or Seller to accept older, out-of-date versions of line items that have been cached or not refreshed. The opportunity for accepting an out-of-date version of a line-item increases when an export instance of a line-item is being accepted, especially in a fast-moving market.</p>

9.10.4 Example Markup

The following are examples of the Posting Accept business message:

9.10.4.1 Posting Accept

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE PostingAccept SYSTEM "PostingAccept.dtd"> <PostingAccept Version="1.2"> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCUAP0427</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010224T030412Z</DateTime> </ThisDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical User</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">87623</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. San Hui</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>245</AreaCode> <PhoneNumber>519-3439</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>6351 South 6th Street</AddressLine> <CityName>Waco</CityName> <StateProvince>TX</StateProvince> <PostalCode>76701</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bcu.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> </pre>	<p>Message from a Buyer to an exchange to accept the first line item of a posting in total.</p>

9.10.4.1 Posting Accept, continued

Example Markup	Annotation
<pre> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </To> </Header> <PostingAcceptBody> <PostingAcceptProperties> <PostingNumber Type="Sell"> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> </DocumentReference> </PostingNumber> </PostingAcceptProperties> <PostingAcceptPartners> <Buyer> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="ACIN"/> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <LocationCode> <Code Domain="67890"/> </LocationCode> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="023"/> <Jurisdiction>US</Jurisdiction> <TaxCertificateType> <Code Domain="034"/> </TaxCertificateType> <TaxCertificateNumber>452</TaxCertificateNumber> <TaxBasis>State</TaxBasis> </TaxInformation> </Buyer> </PartnerInformation> </PostingAcceptPartners> </PostingAcceptBody> </pre>	

9.10.4.1 Posting Accept, continued

Example Markup	Annotation
<pre> <TaxRate>Standard</TaxRate> <EffectiveDates> <DateTimeRange> <FromDateTime TimeZone=""/> <ToDateTime TimeZone="200012161300"/> </DateTimeRange> </EffectiveDates> </TaxInformation> <URL/> </PartnerInformation> </Buyer> </PostingAcceptPartners> <PostingAcceptDetails> <PostingAcceptLineItems> <LineNumber>1</LineNumber> <ProductInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">71.080.40 731</ProductIdentifier> <ProductDescription>Formic Acid</ProductDescription> <ProductGradeDescription>Low Impurity</ProductGradeDescription> </ProductIdentification> <ProductSpecifications> <ProductSpecificationName>Viscosity</ProductSpecificationName> <ProductSpecificationValue>0.71</ProductSpecificationValue> <ProductSpecificationUnit>M</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">ASTM</Code> </ProductSpecificationMethod> </ProductSpecifications> <ProductSpecifications> <ProductSpecificationName>PPM Iron</ProductSpecificationName> <ProductSpecificationValue>100</ProductSpecificationValue> <ProductSpecificationUnit>feppm</ProductSpecificationUnit> <ProductSpecificationMethod> <Code Domain="ASTM">ASTM</Code> </ProductSpecificationMethod> </ProductSpecifications> <ProductClassificationCode> <Code Domain=""/> </ProductClassificationCode> <PackagingInformation> <ProductIdentification> <ProductIdentifier Agency="ISO">71.080.40 731</ProductIdentifier> <ProductDescription>Formic Acid</ProductDescription> <ProductGradeDescription>Low Impurity</ProductGradeDescription> </ProductIdentification> <PackagingQuantity/> <PackagingType/> <PackagingWeight> <Measurement UnitOfMeasureCode=""/> </PackagingWeight> </pre>	

9.10.4.1 Posting Accept, continued

Example Markup	Annotation
<pre> <PackagingLabel/> </PackagingInformation> <CountryOfOriginCode> <Code Domain=""/> </CountryOfOriginCode> <MarketingName Registration="RegisteredTradeMark"/> <ManufacturerInformation> <PartnerName/> <PartnerInformation> <PartnerName/> <PartnerIdentifier PartnerRole="Shipper"> <Code Domain=""/> </PartnerIdentifier> <ContactInformation> <ContactName/> <ContactDescription/> <TelephoneNumber> <TelecomCountryCode/> <AreaCode/> <PhoneNumber/> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine/> <CityName/> <StateProvince/> <PostalCode/> <PostalCountry/> <LocationCode> <Code Domain=""/> </LocationCode> <Comment> <Content/> </Comment> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType=""/> <Jurisdiction/> <TaxCertificateType> <Code Domain=""/> </TaxCertificateType> <TaxCertificateNumber/> <TaxBasis/> <TaxRate/> <EffectiveDates> <DateTimeRange> <FromDate Time Zone=""/> <ToDate Time Zone=""/> </DateTimeRange> </EffectiveDates> </TaxInformation> <URL/> </PartnerInformation> <ProductIdentification> <ProductIdentifier Agency="ISO"/> <ProductDescription/> <ProductGradeDescription/> </pre>	

9.10.4.1 Posting Accept, continued

Example Markup	Annotation
<pre> </ProductIdentification> </ManufacturerInformation> </ProductInformation> <ProductQuantity> <Measurement UnitOfMeasureCode="GAL">300,000</Measurement> </ProductQuantity> <PriceInformation> <UnitPrice GlobalMaterialUnitOfMeasureCode=""> <MonetaryAmount CurrencyCode=""/> </UnitPrice> <PriceShippingTerms> <ShipmentTerms> <ShipmentTermsCode> <Code Domain="INCO">Mountain View Wyoming</Code> </ShipmentTermsCode> <ShipmentTermsLocation>FOB</ShipmentTermsLocation> </ShipmentTerms> </PriceShippingTerms> </PriceInformation> <ShippingAvailability> <DateTime TimeZone=""/> </ShippingAvailability> <SpecialPostingInstructions/> <ShipTo> <PartnerInformation> <PartnerName>Acme Industries</PartnerName> <PartnerIdentifier PartnerRole="ShipTo"> <Code Domain="ACIN"/> </PartnerIdentifier> <ContactInformation> <ContactName>Roger Mills</ContactName> <ContactDescription>Receiving Coordinator</ContactDescription> <TelephoneNumber> <TelecomCountryCode>056</TelecomCountryCode> <AreaCode>555</AreaCode> <PhoneNumber>555-1234</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>123 Smith St.</AddressLine> <CityName>Detroit</CityName> <StateProvince>MI</StateProvince> <PostalCode>48050</PostalCode> <PostalCountry>United States</PostalCountry> <LocationCode> <Code Domain="67890"/> </LocationCode> <Comment> <Content>Shipments must arrive before 3PM unless agreed to otherwise.</Content> </Comment> </AddressInformation> </ShipTo> <TaxInformation> <TaxIdentifierNumber TaxType="023"/> </TaxInformation> </pre>	

9.10.4.1 Posting Accept, continued

Example Markup	Annotation
<pre> <Jurisdiction>US</Jurisdiction> <TaxCertificateType> <Code Domain="034"/> </TaxCertificateType> <TaxCertificateNumber>452</TaxCertificateNumber> <TaxBasis>State</TaxBasis> <TaxRate>Standard</TaxRate> <EffectiveDates> <DateTimeRange> <FromDate Time="200012161300" TimeZone="GMT-05:00"/> <ToDate Time="200012161300" TimeZone="GMT-05:00"/> </DateTimeRange> </EffectiveDates> </TaxInformation> <URL/> </PartnerInformation> </ShipTo> </PostingAcceptLineItems> </PostingAcceptDetails> </PostingAcceptBody> </PostingAccept> </pre>	

9.11 Posting Accept Response

9.11.1 Release Information

Jan. 2001	Expanded Release, V2.0
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9.11.2 Posting Accept Response Data Model

The following diagrams show the graphical representation of the Posting Accept Response data model.

Note: The DTD for this business message is located in [Appendix E](#).

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data



Figure 9.45: PostingAcceptResponse structure

The “To” and “From” information is contained in the Header element. “From” is always a Marketplace or Exchange. “To” may either be a Buyer, Seller, or another Exchange or Marketplace.

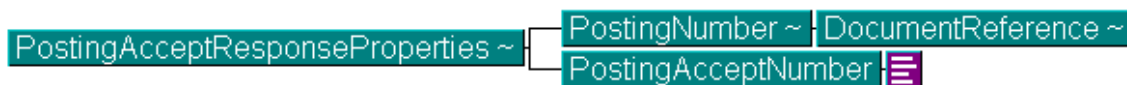


Figure 9.46: PostingAcceptResponseProperties structure

9.11.2 Posting Accept Response Data Model, continued



Figure 9.48: PostingAcceptResponsePartners structure



Figure 9.49: PostingAcceptResponseDetails structure

9.11.3 Data Elements and Attributes

The following table lists the data elements and attributes for the Posting Accept Response business message:

Element	Notes
PostingNumber	<p>The tracking number agreed to between the two parties</p> <p>It may either be the original posting number that was submitted with the Posting Create message, or it may be the posting number that was given as a response in the follow-on Posting Response message.</p> <p>This element, consistent with its usage in the Posting Create message, includes a “Type” attribute that indicates whether it is a buy-side or sell-side posting. Under the almost certain assumption that the Marketplace hosting the posting has kept a record of whether the posting is a buy-side or sell-side posting, this is redundant information.</p>
PostingAcceptResponseProperties	<p>This element is a structure that contains information about the response to the PostingAccept request.</p> <p>This element contains an attribute called “Type” that is used to indicate whether the Posting Accept request was accepted or rejected.</p>

9.11.4 Example Markup

The following are examples of the Posting Accept Response business message:

9.11.4.1 Posting Accept Response

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE PostingAcceptResponse SYSTEM "C:\CSCPROJS\Standard\Phase II\Documents\PostingAcceptResponse.dtd"> <PostingAcceptResponse Version=""> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCEAPR81074</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010224T030628Z</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>BCUAP0427</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="Z">20010218T175523Z</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical User</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">87623</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. San Hui</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> </ContactInformation> </PartnerInformation> </To> </Header> </PostingAcceptResponse> </pre>	<p>Message sent from the Marketplace to the Buyer to confirm the PostingAccept message and divulge the identity of the Seller.</p>

9.11.4.1 Posting Accept Response, continued

Example Markup	Annotation
<pre> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>245</AreaCode> <PhoneNumber>519-3439</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>6351 South 6th Street</AddressLine> <CityName>Waco</CityName> <StateProvince>TX</StateProvince> <PostalCode>76701</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bcu.com</URL> </PartnerInformation> </To> </Header> <PostingAcceptResponseBody> <PostingAcceptResponseProperties Type="Accept"> <PostingNumber Type="Buy"> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> <Referenceltem/> </DocumentReference> </PostingNumber> <PostingAcceptNumber/> </PostingAcceptResponseProperties> <PostingAcceptResponsePartners> <Buyer> <PartnerInformation> <PartnerName>Big Chemical User</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">87623</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. San Hui</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>245</AreaCode> <PhoneNumber>519-3439</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>6351 South 6th Street</AddressLine> <CityName>Waco</CityName> <StateProvince>TX</StateProvince> <PostalCode>76701</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bcu.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>Big Chemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> </pre>	

9.11.4.1 Posting Accept Response, continued

Example Markup	Annotation
<pre> <Code Domain="DUNS">23145</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mr. John Doe</ContactName> <ContactDescription>Product Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>307</AreaCode> <PhoneNumber>323-4544</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>107 Industrial Way</AddressLine> <CityName>Moutain View</CityName> <StateProvince>Wyoming</StateProvince> <PostalCode>82939</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">45- 0983445</TaxIdentifierNumber> <Jurisdiction>United States</Jurisdiction> </TaxInformation> <URL>www.bcc.com</URL> </PartnerInformation> </Seller> </PostingAcceptResponsePartners> <PostingAcceptResponseDetails> <PostingAcceptResponseLineItems> <LineNumber>1</LineNumber> <LineItemAcceptanceStatus> <StatusInformation> <StatusCode>Accepted</StatusCode> <StatusEffectiveDate> <DateTime TimeZone="Z">20010224T030628Z</DateTime> </StatusEffectiveDate> </StatusInformation> </LineItemAcceptanceStatus> </PostingAcceptResponseLineItems> </PostingAcceptResponseDetails> </PostingAcceptResponseBody> </PostingAcceptResponse> </pre>	

9.11.4.2 Scenario #2

Example Markup	Annotation
<pre> <?xml version="1.0" encoding="UTF-8"?> <!-- edited with XML Spy v3.5 NT beta 2 build Dec 1 2000 (http://www.xmlspy.com) by Michael Wacey (CSC) --> <!DOCTYPE PostingAcceptResponse SYSTEM "C:\CSCPROJS\Standard\Phase II\Documents\PostingAcceptResponse.dtd"> <PostingAcceptResponse Version=""> <Header> <ThisDocumentIdentifier> <DocumentIdentifier>BCEAPR81075</DocumentIdentifier> </ThisDocumentIdentifier> <ThisDocumentDateTime> <DateTime TimeZone="Z">20010224T030628Z</DateTime> </ThisDocumentDateTime> <RequestingDocumentIdentifier> <DocumentIdentifier>BCUAP0427</DocumentIdentifier> </RequestingDocumentIdentifier> <RequestingDocumentDateTime> <DateTime TimeZone="Z">20010218T175523Z</DateTime> </RequestingDocumentDateTime> <From> <PartnerInformation> <PartnerName>Big Chemical Exchange</PartnerName> <PartnerIdentifier PartnerRole="Marketplace"> <Code Domain="DUNS">67823</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. Sally Smith</ContactName> <ContactDescription>Customer Service Representative</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>408</AreaCode> <PhoneNumber>324-6871</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>7275 Galahad Ave</AddressLine> <CityName>San Jose</CityName> <StateProvince>CA</StateProvince> <PostalCode>95116</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bce.com</URL> </PartnerInformation> </From> <To> <PartnerInformation> <PartnerName>Big Chemical Company</PartnerName> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23145</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mr. John Doe</ContactName> <ContactDescription>Product Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>307</AreaCode> </TelephoneNumber> </ContactInformation> </PartnerInformation> </To> </Header> </PostingAcceptResponse> </pre>	<p>Message sent from the Marketplace to the Seller to divulge the identity of the Buyer.</p>

9.11.4.2 Scenario #2, continued

Example Markup	Annotation
<pre> <PhoneNumber>323-4544</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>107 Industrial Way</AddressLine> <CityName>Moutain View</CityName> <StateProvince>Wyoming</StateProvince> <PostalCode>82939</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">45- 0983445</TaxIdentifierNumber> <Jurisdiction>United States</Jurisdiction> </TaxInformation> <URL>www.bcc.com</URL> </PartnerInformation> </To> </Header> <PostingAcceptResponseBody> <PostingAcceptResponseProperties Type="Accept"> <PostingNumber Type="Buy"> <DocumentReference ReferenceType="PostingNumber"> <DocumentIdentifier>CC17651</DocumentIdentifier> <Referenceltem/> </DocumentReference> </PostingNumber> <PostingAcceptNumber/> </PostingAcceptResponseProperties> <PostingAcceptResponsePartners> <Buyer> <PartnerInformation> <PartnerName>Big Chemical User</PartnerName> <PartnerIdentifier PartnerRole="Buyer"> <Code Domain="DUNS">87623</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Ms. San Hui</ContactName> <ContactDescription>Purchasing Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>245</AreaCode> <PhoneNumber>519-3439</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>6351 South 6th Street</AddressLine> <CityName>Waco</CityName> <StateProvince>TX</StateProvince> <PostalCode>76701</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <URL>www.bcu.com</URL> </PartnerInformation> </Buyer> <Seller> <PartnerInformation> <PartnerName>Big Chemical Company</PartnerName> </pre>	

9.11.4.2 Scenario #2, continued

Example Markup	Annotation
<pre> <PartnerIdentifier PartnerRole="Seller"> <Code Domain="DUNS">23145</Code> </PartnerIdentifier> <ContactInformation> <ContactName>Mr. John Doe</ContactName> <ContactDescription>Product Manager</ContactDescription> <TelephoneNumber> <TelecomCountryCode>1</TelecomCountryCode> <AreaCode>307</AreaCode> <PhoneNumber>323-4544</PhoneNumber> </TelephoneNumber> </ContactInformation> <AddressInformation> <AddressLine>107 Industrial Way</AddressLine> <CityName>Moutain View</CityName> <StateProvince>Wyoming</StateProvince> <PostalCode>82939</PostalCode> <PostalCountry>United States</PostalCountry> </AddressInformation> <TaxInformation> <TaxIdentifierNumber TaxType="EIN">45- 0983445</TaxIdentifierNumber> <Jurisdiction>United States</Jurisdiction> </TaxInformation> <URL>www.bcc.com</URL> </PartnerInformation> </Seller> </PostingAcceptResponsePartners> <PostingAcceptResponseDetails> <PostingAcceptResponseLineItems> <LineNumber>1</LineNumber> <LineItemAcceptanceStatus> <StatusInformation> <StatusCode>Accepted</StatusCode> <StatusEffectiveDate> <DateTime TimeZone="Z">20010224T030628Z</DateTime> </StatusEffectiveDate> </StatusInformation> </LineItemAcceptanceStatus> </PostingAcceptResponseLineItems> </PostingAcceptResponseDetails> </PostingAcceptResponseBody> </PostingAcceptResponse> </pre>	

References

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Appendix A – References

The following lists the various references of source material, web addresses, and acknowledgments that are referenced by the Chem eStandards:

Source Material

RosettaNet™

Web addresses

<http://www.rosettanel.org>

<http://www.cidx.org>

Acknowledgments

Dun and Bradstreet

RosettaNet

CIDX

Contacts

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Appendix B – Contacts

For information on this initiative, please submit all requests via the website address <http://www.cidx.org>.

Change Management/Revision History

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Appendix C – Change Management/Revision History

Future versions of the Chem eStandards will be released in its entirety. The versions will be released on a scheduled basis. To quickly identify the changes within the sections, the following table lists a summary of the revisions made since the previous release of the Chem standards:

Customer	
Jan. 2001	<p>Changes in Release 2.0 for Qualification Request:</p> <p>Properties:</p> <ul style="list-style-type: none"> • The Properties section was made mandatory. • The element LanguageCode replaces the phase 1 Language element, and became mandatory. • The element CurrencyCode replaces the phase 1 Currency element, and became mandatory. • The structure MarketPlaceInformation was added with 0-1 occurrence. <p>Partners:</p> <ul style="list-style-type: none"> • The Buyer structure was changed from 0-1 occurrence to mandatory occurrence. • The Seller structure was added with mandatory occurrence. • The DeliverTo structure changed into the ShipTo structure, with 0-many occurrence instead of 0-1 occurrence. • The PayerInformation structure was added with mandatory occurrence, which includes the PartnerInformation structure and the AccountInformation structure <p>Details:</p> <ul style="list-style-type: none"> • The element BuyerIdentifier was removed. • The structure BuyerReference (linked to the structure DocumentReference) was added with 0-many occurrences • The AccountInformation structure was removed (and added to the Payer structure). • The structure PaymentTerms was added with 0-1 occurrence. • The element PaymentMethodCode was added with 0-1 occurrence. • The structure InvoicePreference was added with 0-1 occurrence. • The element FinalDestinationCountryCode was added with 0-many occurrences.
Jan. 2001	<p>Changes in Release 2.0 for Qualification Request Confirmation:</p> <p>Properties:</p>

	<ul style="list-style-type: none"> • Section removed; the elements BuyerIdentifier and SellerIdentifier were replaced by the Buyer and Seller structures within the Partner section. • LanguageCode added with mandatory occurrence. • The structure MarketPlaceInformation was added with 0-1 occurrence. <p>Partners:</p> <ul style="list-style-type: none"> • Section added, with structures Buyer (mandatory occurrence) and Seller (mandatory occurrence) <p>Details:</p> <ul style="list-style-type: none"> • The element FinalDestinationCountryCode was added with 0-many occurrences. • Structure StatusInformation was replaced by QualificationStatusInformation structure. • Element Status was replaced by QualificationStatus. • Element Description was changed from 0-1 occurrence to 0-many occurrences.
<p>Catalog and RFQ</p>	
<p>Jan. 2001</p>	<p>Changes in Release 2.0 Product Catalog Update:</p> <p>Properties</p> <p>The structure CatalogEffectiveDates (EffectiveDates in Release 1.0) was shifted from the properties to the details section. Also, it is now linked to the structure DateTimeRange.</p> <p>The element CatalogIdentifier was added with 0-1 occurrence.</p> <p>Partners</p> <p>The structure Seller data (Supplier in Release 1.0) was shifted from details to partner section. The structure Seller is now linked to the PartnerInformation structure.</p> <p>ProductLineItem</p> <p>The element LineNumber was added.</p> <p>The structures Supplier and Manufacturer have been replaced by one structure ProductInformation with mandatory occurrence, which contains several substructures (among which are ProductIdentification and ManufacturerInformation).</p> <p>The element FullDescription changed from one occurrence to 1-many occurrences.</p> <p>The element ShortDescription was replaced by the element ProductDescription within the structure ProductIdentification.</p> <p>The element ParametricDataset was removed because it is replaced by the structure ProductSpecifications which is within the structure ProductInformation.</p> <p>The element TradeName was replaced by the element MarketingName within the ProductInformation structure.</p>

The structure **Codes** was removed, as it is replaced by the structure **ProductClassificationCode** (with 0-many occurrences) within the **ProductInformation** structure.

The element **OrderLeadTime** was changed into a structure linked to the structure **Duration**.

The element **RequestedPrice** has been replaced by a new structure **ProductCatalogPriceData** with 0-many occurrences.

The element **PriceEffectiveDate** has been changed into a structure (linked to the structure **DataTimeRange**) and has been put inside the **ProductCatalogPriceData** structure

The element **PriceExpiryDate** has been removed as it is covered by the **PriceEffectiveDate** structure

The elements **MinimumOrderQuantity** and **ApproximateWeight** have been changed into structures, both linked to the element **Measurement**.

The element **PackageCode** was replaced by the element **PackagingType** within the structure **PackagingInformation** within the **ProductInformation** structure.

The element **StandardShippingPackageNumber** was replaced by the structure **PackagingQuantity** within the structure **PackagingInformation**

The element **GlobalUnitOfMeasureCode** was removed as it is covered by the element **Measurement**, linked to different quantity fields.

The element **SpecialHandlingInstruction** was replaced by the element **SpecialInstructions**, and changed from 0-1 occurrence to 0-many occurrences.

The element **ProductAvailableInCountries** was replaced by the structure **NotAvailableInCountryCode**.

The element **CountryOfOrigin** was renamed into **CountryOfOriginCode** and changed from 0-1 occurrence to 0-many occurrences.

The element **ShelfLife** changed into a structure linked to the structure **Duration**.

The element **DangerousGoodsIndicator** was removed (there should be a general disclaimer in the catalog, referring to the need to check for an Material Safety Data Sheet.

The element **Number** within the structure **MSDS** has been replaced by the element **DocumentIdentifier**.

The element **RestrictedOrder** was renamed into **RestrictedOrderLFlag**

The element **Restrictions** changed from 0-1 occurrence to 0-many occurrences.

The element **HandelingCertificationRequired** was replaced by the structure **HandlingCertificationRequiredCode**, and changed from 0-1 occurrence to 0-many

	<p>occurrences.</p> <p>The elements PriceModifierDown and PriceModifierUp moved into the ProductCatalogPriceData structure.</p> <p>The structure RoundingFactor was added, linked to the element Measurement with 0-1 occurrence.</p> <p>The new boolean element LimitDisplay was added.</p>
Jan. 2001	<p>Changes in Release 2.0 in Customer Specific Catalog Update:</p> <p>Properties:</p> <ul style="list-style-type: none"> • The CatalogEffectiveDates (EffectiveDates in release 1.0) was shifted from the Properties section to the Details section, and is now linked to the DateTimeRange structure. • The element Currency was removed as it is now an attribute to the element MonetaryAmount that is within the Pricing structure linked to the CustomerCatalogPrice structure. • The element CatalogIdentifier was added with 0-1 occurrence. <p>Partners:</p> <ul style="list-style-type: none"> • The structures Seller (Supplier in Release 1.0) and Buyer shifted from the Details section to the Partners section (both with mandatory occurrence) and are linked to the PartnerInformation structure. <p>ProductLineItem:</p> <ul style="list-style-type: none"> • The structure ProductInformation has changed completely. It changed from 0-many occurrences to mandatory occurrence, and now contains the structures ProductIdentification, ProductSpecifications, ProductClassificationCode, PackagingInformation, CountryOfOriginCode, MarketingName, ManufacturerInformation, and the recurring ProductInformation. • The structure PriceStructure changed completely. It changed from 0-many occurrences to 1-many occurrences, and now contains the mandatory structure DocumentReference, the optional structure ThirdParty, the element PlannedEndUse (with 0-many occurrences), the structures BuyerContractInformation, ShipmentTerms, TransportMethodCode (all with 0-1 occurrence), the structure CustomerSpecificCatalogPriceData (with 0-many occurrences), the element DutyStatus, the structure CountryOfOriginCode, the structure ShipFrom (all with 0-1 occurrence), the structure ShipTo (which replaces the structure ShipToLocation from phase 1) in an either/or relation with the structure FinalDestinationCountryCode (in a 0-1 occurrence) and the structure ShippingLeadTime (in a 0-1 occurrence). • The following were added: the element LineNumber (with mandatory occurrence), the structures BuyerProductInformation (linked to the structure ProductIdentification), OrderLeadTime, ShippingServiceLevelCode, SpecialFulfillmentRequestCode, ProjectedVolume, StandardOrderQuantity (all

	<p>with 0-1 occurrence) and the element SpecialInstructions (with 0-many occurrences).</p> <ul style="list-style-type: none"> • The elements MinimumQuantity and MaximumQuantity have been shifted from the PriceStructure structure to the ProductLineItem structure, and are now structures with 0-1 occurrence. • The structure Shipping was removed from the PriceStructure, and its elements ShipFrom, ShipToLocation (replaced by ShipTo structure) and ShippingLeadTime moved up and all became structures. • The element FreightIncludedFlag was removed from the PriceStructure. • The element PriceEffectiveDate and PriceExpiryDate were replaced by the structure PriceEffectiveDate (with mandatory occurrence), and shifted from the structure PriceStructure to the new structure CustomerSpecificCatalogPriceData within the structure PriceStructure. • The following were included in the structure CustomerSpecificCatalogPriceData : the structure CustomerCatalogPrice with mandatory occurrence (linked to the structure Pricing), the structure PriceEffectiveDate, and the elements PriceModifierDown and PriceModifierUp (which originally were direct in the PriceStructure). • The element Price was removed from the PriceStructure as it was replaced by the element MonetaryAmount within the structure Pricing.
Jan. 2001	<p>Changes in Release 2.0 in Request for Quote:</p> <p>Properties:</p> <ul style="list-style-type: none"> • The EffectiveDates were removed from the Properties section. • The element Language was renamed into the structure LanguageCode and changed from 0-1 occurrence to mandatory occurrence. • The element Currency was renamed into the structure CurrencyCode and changed from 0-1 occurrence to mandatory occurrence. • The element GlobalPaymentMethodCode was renamed into the structure PaymentMethodCode. • The element GlobalShipmentTermscode was renamed into the structure ShipmentTerms. • The following was added the structures: MarketPlaceInformation, InvoicePreference, the structure PaymentTerms, RFQIdentifier (all with 0-1 occurrence) and the structure FinalDestinationCountryCode (with mandatory occurrence). • Partners: • The structures Buyer and Seller were added with mandatory occurrence. • The SoldTo structure was added with 0-1 occurrence. • The DeliverTo structure was renamed into ShipTo and linked to the PartnerInformation structure. • The RequestedShipFrom structure was replaced by the ShipFrom structure with 0-1 occurrence.

- The **PreferredCarrier** structure was replaced by the **Carrier** structure with 0-1 occurrence.

Details:

- The element **ServicesAdministrationNumber** was removed.

ProductLineItem:

- The **LineNumber** was changed from 0-1 occurrence to mandatory occurrence.
- The element **RFQItem** was added to the Details section with 0-1 occurrence.
- The structure **SellerProductInformation** (linked to the **ProductIdentification** structure) with mandatory occurrence replacing the element **MaterialDescription**.
- The structure **DocumentReference** replaced the element **ContractIdentifier**
- The element **GlobalShipmentTermsCode** was renamed into the structure **ShipmentTerms** and changed from mandatory occurrence to 0-1 occurrence.
- The element **RequestedTransportMode** shifted from the removed structure **PreferredCarrier** to the **ProductLineItem** section and was renamed into the structure **TransportMethodCode** with 0-1 occurrence.
- The element **ShippingServiceLevelCode** changed from mandatory occurrence to 0-1 occurrence and became a structure.
- The elements ProjectVolume, StandardOrderQuantity, RequestedAgreementPeriod, RequestedFirstOrderDate and RequestedPackaging changed into structures.
- The element **ECDutyStatus** was added with 0-1 occurrence.
- The element **RequestedPrice** was changed into a structure, which is linked to the structure **Pricing**.
- The element **CurrencyCode** was added with mandatory occurrence.
- The element **RequestedDeliveryByDateTime** was replaced by the structure **DeliveryByDateTime**.
- The element **RequestedDeliveryOnDateTime** was replaced by the structure **DeliveryOnDateTime**.
- The structure **RequestedDeliveryBetweenDateTime** was replaced by the structure **DeliveryByDateTime**.
- The element **DespatchOnDateTime** was added in an either/or situation with the structure **DeliveryByDateTime**, **DeliveryOnDateTime**, **DeliveryBetweenDateTime**.
- The element **ManualInterventionRequired** was removed.
- The element **SpecialMarkingLabel** was removed.
- The element **RequestedQuoteResponseMethod** was renamed into the structure **RequestedQuoteResponse** (with the structure **ContactInformation**, and the structure **ClosingDate** (all with mandatory occurrence).
- The element **SpecialHandlingInstruction** was replaced by the element **SpecialInstructions**.
- The element **PlannedEndUse** changed from 0-1 occurrence to 0-many occurrences.
- The structure **PreferredCarrier** was replaced by the structure **Carrier**.
- The structure **DeliverTo** was renamed into **ShipTo** and changed from mandatory occurrence to 0-1 occurrence.

	<ul style="list-style-type: none"> • The structure CountryOfOriginCode was added with 0-1 occurrence. • The structure FinalDestinationCountryCode was added with 0-1 occurrence. • The structure ThirdParty was added with 0-1 occurrence.
Purchase Order	
Jan. 2001	<p>Changes in Release 2.0 in Create Order:</p> <p>CreateOrderProperties:</p> <ul style="list-style-type: none"> • PurchaseOrderTypeCode replaced GlobalPurchaseOrderTypeCode • Element Language replaced by structure LanguageCode • Element Currency replaced by structure CurrencyCode • Element Purpose was replaced by LineItemPurposeCode and moved from properties level to details level. • New structure DocumentReference with occurrence 0 to many times has been added. • New structure MarketplaceInformation has been added. Structure is optional. • Element InvoicePreference was replaced by a new structure SpecialInvoicePreferenceOccurance of Element SpecialInstructions changed from optional to 0-many times. • Element ShipmentTerms has become a structure with two elements. First one qualifies the code (INCOTerms,...) and second one the location. • GlobalFinanceTermsCode has been renamed to PaymentTerms and became a structure with several elements/structures within it. • Element AcknowledgmentType was removed • New structure ShipWithPurchaseOrder with occurrence 0 to many times has been added. • New structure LetterOfCreditInformation has been added optional. • New structure CarrierToExclude has been added with occurrence 0 to many. • New structure FinalDestinationCountryCode has been added optional. <p>CreateOrderPartners:</p> <ul style="list-style-type: none"> • In order to respect Marketplace terminology, the partners SoldTo and Supplier have been replaced respectively by partners Buyer and Seller. • Partner SoldTo is still optional partner. See QualificationRequest section for more comments. • Partner DeliverTo has been replaced by ShipTo. • Partner SecondaryBuyer has been replaced by partnerThirdParty as these two partners are synonymous. • New mandatory partner Payer has been added. <p>CreateOrderDetails</p> <ul style="list-style-type: none"> • PurchaseOrderLineItemNumber has been added on detail level because item number in Buyer ERP system may be different from item number in Seller ERP system. • Elements GlobalMaterialIdentifier and MaterialDescription have been replaced by a new structure named ProductIdentification.

	<ul style="list-style-type: none"> • Three new structures, SellerProductInformation, mandatory, and BuyerProductInformation and ManufacturerProductInformation, optional, have been added. • Element MaterialQuantity has been replaced by new structure ProductQuantity. • Element NumberPackagingUnits has been replaced by new structure PackageQuantity • New element BatchNumber has been added optional. • Element CountryOfOrigin has been renamed CountryOfOriginCode which is a structure. • Elements PackListRequirements has been removed. A new structure SpecialFulfillmentRequestCode has been added. • Element SpecialHandlingInstruction has been removed. All texts are now to be covered by the code list of the SpecialInstruction element, occurrence 0 to many. • Element SafetySheetIndicator has been removed. A new structure RequestedDocument has been added • Element CarrierEquipment has been included in a new structure, namely TransportInformation with occurrence 0 to many. • Elements RequestedDeliveryByDateTime, RequestedDeliveryOnDateTime, RequestedDeliveryBetweenDateTime have been replaced by structures DeliveryByDateTime, DeliveryOnDateTime, DeliveryBetweenDateTime. • New structure DespatchOnDateTime has been added. • Partners ShipTo, Carrier and ThirdParty have been added on item level. • The element ContractIdentifier has been removed and replaced by the structure DocumentReference. • RequetsedPrice is linked to a new structure, Pricing, which has three qualifiers, MonetaryAmount, PriceBasis and PriceReason. • TaxableFlag is a new optional element that indicates whether an order is taxable or not. • BalanceItemFlag is a new optional element that indicates the item of an order that should fill up the carrier equipment in case there is remaining space. • DutyStatus is a new optional element needed for dutystatuses. It has two possible values. • ImportedLicenceNeededFlag and ImportedLicenceAvailableFlag are two new optional elements. Y means order should be held in ERP system and N means order can proceed. • CommissionPayee is a new optional partner structure. • SecondWeightFlag is a new optional element. • CustomerRequestedDeliveryHoldFlag is a new optional element. • AccompanyingSample is a new optional element with three possible values, which offers the possibility for the Buyer to specify no accompanying sample, a sample sent together with shipment, or a sample sent before shipment.
<p>Jan. 2001</p>	<p>Changes in Release 2.0 in Change Order:</p> <p>ChangeOrderProperties:</p> <ul style="list-style-type: none"> • PurchaseOrderTypeCode replaces GlobalPurchaseOrderTypeCode

- Element **Language** replaced by structure **LanguageCode**
 - Element **Currency** replaced by structure **CurrencyCode**
 - Element **Purpose** was replaced by **:LineItemPurposeCode** and moved from properties level to details level.
 - New structure **DocumentReference** with occurrence 0 to many times has been added.
 - New structure **MarketplaceInformation** has been added. Structure is optional.
 - Element **InvoicePreference** was replaced by a new structure **SpecialInvoicePreferenceOccurance** of Element **SpecialInstructions** changed from optional to 0 to many times.
 - Element **ShipmentTerms** has become a structure with two elements.
 - Element **GlobalFinanceTermsCode** has been replaced by structure **PaymentTerms**.
 - Element **AknowledgmentType** was removed
 - New structure **ShipWithPurchaseOrder** with occurrence 0 to many times has been added.
 - New structure **LetterOfCreditInformation** has been added optional.
 - New partner **CarrierToExclude** has been added optional.
 - New structure **FinalDestinationCountryCode** has been added optional.
- ChangeOrderPartners:**
- In order to respect **Marketplace** terminology, partners **SoldTo** and **Supplier** have been replaced respectively by partners **Buyer** and **Seller**.
 - Partner **SoldTo** is still optional partner. See **QualificationRequest** section for more comments.
 - Partner **DeliverTo** has been replaced by partner **ShipTo**.
 - Partner **SecondaryBuyer** has been replaced by partner **ThirdParty** as these two roles are synonymous.
 - New partner **Payer** has been added.
- ChangeOrderDetails:**
- **PurchaseOrderLineItemNumber** has been added on detail level because item number in Buyer ERP system may be different from item number in Seller ERP system.
 - Elements **GlobalMaterialIdentifier** and **MaterialDescription** have been replaced by a new structure named **ProductIdentification**.
 - Three new structures, **SellerProductInformation**, mandatory, and **BuyerProductInformation** and **ManufacturerProductInformations** optional, have been added.
 - Element **MaterialQuantity** has been replaced by new structure **ProductQuantity**.
 - Element **NumberPackagingUnits** has been replaced by new structure **PackageQuantity**
 - New element **BatchNumber** has been added optional.
 - Element **CountryOfOrigin** has been renamed **CountryOfOriginCode** which is a structure.
 - Element **PackListRequirements** has been removed. A new structure **SpecialFulfillmentRequestCode** has been added.

	<ul style="list-style-type: none"> • Element SpecialHandlingInstruction has been removed . All texts are now to be covered by the code list of the SpecialInstruction element, occurrence 0 to many. • Element SafetySheetIndicator has been removed. A new structure RequestedDocument has been added • Element CarrierEquipment has been included in a new structure, namely TransportInformation, with occurrence 0 to many. • Elements RequestedDeliveryByDateTime, RequestedDeliveryOnDateTime, RequestedDeliveryBetweenDateTime have been replaced by structures DeliveryByDateTime, DeliveryOnDateTime, DeliveryBetweenDateTime. • New structure DispatchOnDateTime has been added. • Partners ShipTo, Carrier and ThirdParty have been added on item level. • The element ContractIdentifier has been removed and replaced by the structure DocumentReference. • ConfirmedPrice is linked to a new structure, Pricing, which has three qualifiers, MonetaryAmount, PriceBasis and PriceReason. • TaxableFlag is a new optional element, which indicates whether an order is taxable or not. • BalanceItemFlag is a new optional element that indicates the item of an order that should fill up the carrier equipment in case there is remaining space. • DutyStatus is a new optional element needed for dutystatus. It has two possible values. • ImportedLicenceNeededFlag and ImportedLicenceAvailableFlag are two new optional elements with boolean values. Y means order should be held in ERP system and N means order can proceed. • CommissionPayee is a new optional partner. • SecondWeightFlag is a new optional element mainly used in Pacific, wherein the weight as determined by the Buyer is basis for goods issue. • CustomerRequestedDeliveryHoldFlag is a new optional element. • AccompanyingSample is a new optional element with three possible values.
<p>Jan. 2001</p>	<p>Changes in Release 2.0 Order Response:</p> <p>OrderResponseProperties:</p> <ul style="list-style-type: none"> • PurchaseOrderTypeCode replaces GlobalPurchaseOrderTypeCode • Element Language replaced by structure LanguageCode • Element Currency replaced by structure CurrencyCode • Element Purpose was replaced by LineItemPurposeCode and moved from properties level to details level. • New structure DocumentReference with occurrence 0 to many times has been added. • New structure MarketplaceInformation has been added. Structure is optional. • Element InvoicePreference was replaced by a new structure SpecialInvoicePreferenceOccurrence of Element SpecialInstructions changed from optional to 0-many times. • Element ShipmentTerms has become a structure with two elements. • Element GlobalFinanceTermsCode has been replaced by structure PaymentTerms. • Element AknowldgmentType was removed

- New structure **ShipWithPurchaseOrder** with occurrence 0 to many times has been added.
 - New structure **LetterOfCreditInformation** has been added optional.
 - New partner **CarrierToExclude** has been added optional.
 - New structure **FinalDestinationCountryCode** has been added optional.
- OrderResponsePartners:
- In order to respect Marketplace terminology, the partners **SoldTo** and **Supplier** have been replaced respectively by partners **Buyer** and **Seller**.
 - Partner **SoldTo** is still optional partner. See QualificationRequest section for more comments.
 - Partner **DeliverTo** has been replaced by partner **ShipTo**.
 - Partner **SecondaryBuyer** has been replaced by **ThirdParty** as these two partners are synonymous.
 - New partner **Payer** has been added.
- OrderResponseDetails:
- **PurchaseOrderLineItemNumber** has been added on detail level because item number in Buyer ERP system may be different from item number in Seller ERP system.
 - Elements **GlobalMaterialIdentifier** and **MaterialDescription** have been replaced by a new structure named **ProductIdentification**.
 - Three new structures, **SellerProductInformation**, mandatory, and **BuyerProductInformation** and **ManufacturerProductInformation**, optional, have been added.
 - Element **MaterialQuantity** has been replaced by new structure **ProductQuantity**.
 - Element **NumberPackagingUnits** has been replaced by new structure **PackageQuantity**
 - New element **BatchNumber** has been added optional.
 - Element **CountryOfOrigin** has been replaced by structure **CountryOfOriginCode**.
 - Elements **PackListRequirements** has been removed. A new structure **SpecialFulfillmentRequestCode** has been added.
 - Element **SpecialHandlingInstruction** has been removed. All texts are now to be covered by the code list of the **SpecialInstruction** element, occurrence 0 to many.
 - Element **SafetySheetIndicator** has been removed. A new structure **RequestedDocument** has been added
 - Element **CarrierEquipment** has been included in a new structure, namely **TransportInformation** with occurrence 0 to many.
 - Elements **RequestedDeliveryByDateTime**, **RequestedDeliveryOnDateTime**, **RequestedDeliveryBetweenDateTime** have been replaced by structures **DeliveryByDateTime**, **DeliveryOnDateTime**, **DeliveryBetweenDateTime**.
 - New structure **DespatchOnDateTime** has been added. This last structure covers Buyer pick up case.
 - Structures **ShipTo**, **Carrier** and **ThirdParty** have been added on item level.
 - The element **ContractIdentifier** has been removed and replaced by the structure **DocumentReference**.

	<ul style="list-style-type: none"> • RequestedPrice is linked to a new structure, Pricing, which has three qualifiers, MonetaryAmount, PriceBasis and PriceReason. • TaxableFlag is a new optional element that indicates whether an order is taxable or not. • BalanceItemFlag is a new optional element that indicates the item of an order that should fill up the carrier equipment in case there is remaining space. • DutyStatus is a new optional element needed for dutystatuses. It has two possible values. • ImportedLicenceNeededFlag and ImportedLicenceAvailableFlag are two new optional elements. Y means order should be held in ERP system and N means order can proceed. • CommissionPayee is a new optional partner. • SecondWeightFlag is a new optional element. • CustomerRequestedDeliveryHoldFlag is a new optional element. • AccompanyingSample is a new optional element with three possible values. • Element Description has been added. • Structures GlobalPurchaseOrderLineStatusCode and GlobalPurchaseLineResponseReasonCode have been replaced by structures LineStatusCode and LineResponseReasonCode.
<p>Jan. 2001</p>	<p>Changes in Release 2.0 in Order Status:</p> <p>OrderStatusProperties:</p> <ul style="list-style-type: none"> • PurchaseOrderTypeCode replaces GlobalPurchaseOrderTypeCode • Element Language replaced by structure LanguageCode • Element Currency replaced by structure CurrencyCode • New structure MarketplaceInformation has been added. Structure is optional. • Occurrence of Element SpecialInstructions changed from optional to 0 to many times. • Element ShipmentTerms has become a structure with two elements. • Element AcknowledgmentType was removed • New structure ShipWithPurchaseOrder with occurrence 0 to many times has been added. • New structure LetterOfCreditInformation has been added optional. • New structure FinalDestinationCountryCode has been added optional. <p>OrderStatusPartners:</p> <ul style="list-style-type: none"> • In order to respect Marketplace terminology, the partner Supplier has been replaced by the partner Seller and the partner Buyer has been added. • Partner DeliverTo has been replaced by partner ShipTo. <p>OrderStatusDetails:</p> <ul style="list-style-type: none"> • PurchaseOrderLineItemNumber has been added on detail level because item number in Buyer ERP system may be different from item number in Seller ERP system. • Elements GlobalMaterialIdentifier and MaterialDescription have been replaced by a new structure named ProductIdentification.

	<ul style="list-style-type: none"> • Three new structures, SellerProductInformation, mandatory, and BuyerProductInformation and ManufacturerProductInformation, optional, have been added. • Elements SalesOrderIdentifier and SalesOrderItem have been added. • Element MaterialQuantity has been replaced by new structure ProductQuantity. • Element NumberPackagingUnits has been replaced by new structure PackageQuantity • Structure LineStatusCode has been added. • New element BatchNumber has been added optional. • Element CountryOfOrigin has been replaced by structure CountryOfOriginCode . • Element SpecialHandlingInstruction has been removed. All texts are now to be covered by the code list of the SpecialInstruction element, occurrence 0 to many. • Element CarrierEquipment has been included in a new structure, TransportInformation, with occurrence 0 to many. • Elements RequestedDeliveryByDateTime, RequestedDeliveryOnDateTime, RequestedDeliveryBetweenDateTime have been replaced by structures DeliveryByDateTime, DeliveryOnDateTime, DeliveryBetweenDateTime. • New structure DespatchOnDateTime has been added. • Structures ShipTo, Carrier and ThirdParty have been added on item level. • The element ContractIdentifier has been removed and replaced by the structure DocumentReference. • ConfirmedPrice is linked to a new structure, Pricing, which has three qualifiers, MonetaryAmount, PriceBasis and PriceReason. • CustomerRequestedDeliveryHoldFlag is a new optional element.
<p>Jan. 2001</p>	<p>Changes in Release 2.0 Order Status Inquiry:</p> <p>Properties:</p> <ul style="list-style-type: none"> • Structure Properties replaced by OrderStatusInquiryProperties • Element Language has been replaced by structure LanguageCode. • Structure MarketPlaceInformation added with 0-1 occurrence. <p>Partners:</p> <ul style="list-style-type: none"> • Structure OrderStatusInquiryPartners added. • Partners Buyer, SoldTo, Seller and ShipTo included in OrderStatusInquiryPartners structure. <p>Details:</p> <ul style="list-style-type: none"> • Structure Details replaced by OrderStatusInquiryDetails. • Structure ProductLineItem replaced by OrderStatusInquiryProductLineItem • Element LineNumber replaced by LineItemNumber. • Element SalesOrderIdentifier has become a structure containing element DocumentIdentifier. • Element SalesOrderItem has been added.
<p>Jan. 2001</p>	<p>Changes in Release 2.0 in Cancel Order:</p> <p>Properties:</p>

	<ul style="list-style-type: none"> • Structure Properties replaced by CancelOrderProperties • PurchaseOrderNumberIssueDate has become a structure. • Element Language has been replaced by structure LanguageCode. • Structure MarketPlaceInformation was added with 0-1 occurrence. <p>Partners:</p> <ul style="list-style-type: none"> • Structure OrderStatusInquiryPartners has been added. • Partners Buyer, SoldTo, Seller, Carrier, BillTo, Payer, ShipTo and ThirdParty included in CancelOrderPartners structure.
<p>Jan. 2001</p>	<p>Changes in Release 2.0 Cancel Order Response:</p> <p>Properties:</p> <ul style="list-style-type: none"> • Structure Properties replaced by CancelOrderResponseProperties • Element PurchaseOrderIssuedDate was changed into a structure, linked to element DateTime • Element Language has been replaced by structure LanguageCode. • The element GlobalPurchaseOrderResponseReasonCode was renamed into PurchaseOrderResponseReasonCode • The element GlobalPurchaseOrderStatusCode was renamed into PurchaseOrderStatusCode • Structure MarketPlaceInformation was added with 0-1 occurrence. <p>Partners:</p> <ul style="list-style-type: none"> • CancelOrderResponsePartners sections was added • Partners Buyer, SoldTo, Seller, Carrier, BillTo, Payer, ShipTo and ThirdParty included in CancelOrderResponsePartners structure, where all have 0-1 occurrence except Buyer and Seller which have mandatory occurrence.

Data Dictionary

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Appendix D – Data Dictionary

This standard has a single, common data dictionary, rather than a data dictionary for each message or for each section. While each individual message has a substantial quantity of elements, many of these elements are common across multiple messages. Therefore, combining them is useful to improve consistency, to avoid duplication thus decreasing the size of the standard, and to aid ease of use. This is also the approach taken in the established industry standard for EDI and ANSI ASC X12.

All elements in the standard have a data dictionary entry that includes:

- Element Name – The specific, unique name of each element that is used within the individual messages.
- Element Definition - A short description of a few words or sentences to clarify the purpose and content of data for the element.
- Data Type – One of the core data types of this standard identified below.
- Data Length – The number of characters required or suggested for each element.
- Code List Name – A data code source is identified when the values of an element come from a list of references codes, either defined/listed within this standard in the data dictionary or defined by some external standard source. If the code list name is “internal,” that means it is defined by the individual company. If the code list name is “custom,” the values will be found in the code list line of the documentation.
- Code List – If the element has customized codelists, these code values are noted in this section.
- Synonyms – A list of the names of other data elements with similar meanings.
- Comments – Created by the message development team to aid in understanding of the element.
- Attributes –The list of attributes for any particular data element and the values of this attribute where available. The guideline applied for attributes is defined in the Conventions section of this standard.

The Data Type list is a subset of the emerging W3C recommendation for XML Schema data typing. The draft XML Schema recommendation includes data types that are not needed in this standard at this time and since the XML Schema specification is not yet a recommendation of the W3C, those items have been omitted.

The data types used are:

- Structure – A structure data element does not contain data. It contains only other data elements, which may in turn be other structures or content data elements.
- String – A sequence of character data within the limits of the XML specification. Strings may include length limits. Either max (ex. String 255) or min and max (ex. String 1,3) may be used. The default for a String is String 1,255.
- Boolean – This is a simple true/false field. The acceptable values are 1 (true) or 0 (false).
- Integer – Values whose purpose is numeric and contains only digit characters. For instance LineNumber or EstimatedWeight. This is not intended for Strings that happen to be numeric, such as PostalCode, which do not have numeric intent, but happen to be digits.
- Real – For floating point numbers/values and may include precision (ex. real 3). This should be used where the data item is numeric, but not integer.
- DateTime – For date/time field combination, all times are ISO 8601 with Greenwich Mean Time Date format of 8601 is YYYY-MM-DD or YYYYMMDD Time format of 8601 is HH:MM:SSZ or HHMMSSZ (where Z indicates time is GMT). A complete Datetime element would be coded YYYYMMDDTHHMMSSZ

Appendix D – Data Dictionary, continued

AcceptanceFlag

DEFINITION:

Accept or Reject Flag

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y, N

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

AcceptanceRejection

DEFINITION:

The action of accepting or rejecting a previous transaction

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

This has an attribute of acceptance/rejection code

Public Attributes:

AcceptanceOrRejectionCode : NOTATION (Accepted | Rejected | AcceptedWithChange)

Appendix D – Data Dictionary, continued

AccompanyingSampleCode

DEFINITION:

Indicator whether or not a product sample should accompany shipment.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

NoAccompanyingSample

CODELISTNAME:

Custom (estandard defined)

CODELIST:

NoAccompanyingSample;SampleSentWithShipment;SampleSentBeforeShipment

SYNONYMS:**COMMENTS:**

AccountHolderName

DEFINITION:

Name as it appears on Credit Card, DDA, etc.

DATATYPE:

String

DATALENGTH:

1,50

SAMPLEDATA:

John Q. Public

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

AccountInformation

DEFINITION:

Account Information Structure

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

AccountNumber

DEFINITION:
Account Number Assigned
DATATYPE:
String
DATALENGTH:
1,35
SAMPLEDATA:
0220123433
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

AccountNumberBuyer

DEFINITION:
Account Number assigned to the party acting as the buyer in a transaction.
DATATYPE:
String
DATALENGTH:
1,35
SAMPLEDATA:
0220123433
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

AccountNumberSeller

DEFINITION:
Account Number assigned to the party acting as a seller in a transaction.
DATATYPE:
String
DATALENGTH:
1,35
SAMPLEDATA:
0220123433
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ActualUsage

DEFINITION:

The quantity of product inventory consumed at an inventory location defined by quantity and time horizon.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

New element

AdditionalReference

DEFINITION:

Used in the marketplace context

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

AddressInformation

DEFINITION:
Structure which holds complete address information

DATATYPE:
Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

AddressLine

DEFINITION:
Occurrence of a generally accepted formatted line of data such that when combined with the entire address structure there is sufficient information for delivery or location purposes.

DATATYPE:
String

DATALENGTH:
1,255

SAMPLEDATA:
200 West 9th Street

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Adjustment

DEFINITION:

Data structure representing monetary adjustments with reason codes for monetary amounts added or subtracted from balances or transactions.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

AdjustmentAmount

DEFINITION:

Monetary amount of adjustment to a balance or a transaction.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

5000.01

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

AdjustmentCode

DEFINITION:

Reason code for adjustment to invoice or payment or other type of financial transaction.

DATATYPE:

String

DATALENGTH:

2

SAMPLEDATA:

A9, AA, 99

CODELISTNAME:

ANSI ASC X12 426

CODELIST:

SYNONYMS:

COMMENTS:

AdvisingBank

DEFINITION:

Bank or financial institution which will be responsible for transacting Letter(s) of Credit.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

AllowExport

DEFINITION:

Indicates whether a marketplace can export the posting to other marketplaces.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

YES,NO,RESTRICTED

CODELISTNAME:**CODELIST:**

YES,NO,RESTRICTED

SYNONYMS:**COMMENTS:**

'Restricted' implies that export shall be governed by pre-existing trading partner agreements.

Allowances

DEFINITION:

Service, promotion, or other monetary adjustment to a transaction.

DATATYPE:

Real

DATALENGTH:

1,255

SAMPLEDATA:

50.00, 73.49, -3.00

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

AlternateCarrier

DEFINITION:

The carrier actually carrying the load when transportation is subcontracted

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

AlternativeCommunicationMethod

DEFINITION:

Additional methods of communication, ie., fax, printer, cell phone, in addition to those specifically listed elsewhere in contact or address information.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Pager 402-379-7711

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

CommunicationMethodType : NOTATION (StationCode | Telex | PrinterId)

Appendix D – Data Dictionary, continued

Amount

DEFINITION:

DATATYPE:

Real

DATALENGTH:

1,50

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

AnonymityFlag

DEFINITION:

Indicates if posting should be made anonymous or not so that marketplace roles cannot determine identity of transacting entity.

DATATYPE:

String

DATALENGTH:

1,10

SAMPLEDATA:

YES,NO,RESTRICTED

CODELISTNAME:

Custom

CODELIST:

YES,NO,RESTRICTED

SYNONYMS:

COMMENTS:

RESTRICTED means that anonymity shall be governed by pre-existing trading partner agreements. It is assumed that anonymity will be uniform across marketplaces.

Appendix D – Data Dictionary, continued

ApproximateWeight

DEFINITION:

The estimated weight in a supplied unit of measure for a given product or commodity.

DATATYPE:

String

DATALENGTH:

1,50

SAMPLEDATA:

630 LBS, 500 KG

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

AssociatedEquipment

DEFINITION:

Equipment that supports the job of the carrier in addition to the main equipment used for transporting equipment.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

Fork lift, crane

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Attachment

DEFINITION:

DATATYPE:

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Audience

DEFINITION:

Identifies a specific list of trading partners for whom the posting is intended.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Postings may be restricted in accordance with pre-existing trading partner agreements between the originator and a marketplace. When exporting a posting, it allows these types of restrictions that may exist on one marketplace to be propagated to other marketplaces.

Appendix D – Data Dictionary, continued

BalanceItemFlag

DEFINITION:

Product for which the quantity can be adjusted for transportation purposes.

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y;N

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Default "N"

BatchNumber

DEFINITION:

Identification by a manufacturer or seller for a homogeneous quantity/quality of product sharing the same factors of production. (Juran)

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

KL15193001

CODELISTNAME:

CODELIST:

SYNONYMS:

Lot Number

COMMENTS:

Public Attributes:

BatchNumberCreator : NOTATION (Seller | Manufacturer)

Appendix D – Data Dictionary, continued

BillTo

DEFINITION:

The party that will receive the invoice for a delivery or service. The "bill to" may or may not be the payer
an additional data element has been created "payer"

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

BillingScheduleCode

DEFINITION:

Identification of the calendar that determines the schedule of billing dates for the customer.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Belgian calendar, last day of the month

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

BondedWarehouseRelease

DEFINITION:

Indication that the shipment has released from a bonded entity to the custody of another entity.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Release from bond - transfer of liability

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

BondedWarehouseStatus

DEFINITION:

To indicate that the warehouse is bonded.

DATATYPE:

String

DATALENGTH:

2,7

SAMPLEDATA:

Yes, No, Unknown

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Buyer

DEFINITION:

Purchasing party or role in a transaction. If the purchasing party is not the owning party then the owning party will be the "SoldTo" partner

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

BuyerAccountDetails

DEFINITION:

Data structure represents most of the elements about a purchasing party or role.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

BuyerContractInformation

DEFINITION:

Information which describes written or otherwise recorded agreement between two parties for a transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

BuyerFinancialInstitution

DEFINITION:

Financial Institution of the Buyer/Payor generally identified by a D-U-N-S Number.

DATATYPE:

String

DATALENGTH:

13

SAMPLEDATA:

0000111229993

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

BuyerFinancialInstitutionDFINumber

DEFINITION:

Routing Number of Buyer/Payor Bank as defined by the authorities cited in comments.

DATATYPE:

String

DATALENGTH:

1,12

SAMPLEDATA:

021000021

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Thompson Bank Directory/ABA, Canadian Payments Assn Directory, ISO/S.W.I.F.T. Bank Identifier Code Directory

BuyerIdentifier

DEFINITION:

Unique identifier for a buyer in a given marketplace.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

BuyerOrderIdentifier

DEFINITION:

Reference number assigned by the buyer for an order to purchase product(s).

DATATYPE:

String

DATALENGTH:

1,20

SAMPLEDATA:

1234567

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

BuyerProductIdentification

DEFINITION:

The data structure that uniquely identifies a product of the buyer.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

BuyerProductInformation

DEFINITION:

Structure for the product that is being purchased by buyer

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

BuyerReference

DEFINITION:

Information supplied by the buyer about existing contracts or other references (i.e. customer master record etc.) that can help establish a relationship between buyer and seller.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

BuyerTransactionNumber

DEFINITION:
Payment Identification Number
DATATYPE:
String
DATALENGTH:
1,16
SAMPLEDATA:
AA999999
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

BuyersCurrency

DEFINITION:
Currency used by the buyer
DATATYPE:
String
DATALENGTH:
1,3
SAMPLEDATA:
USD
CODELISTNAME:
ISO 4217
CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

BuyersTransactionNumber

DEFINITION:

Unique identification number for a payment in the buyers system(s).

DATATYPE:

String

DATALENGTH:

1,16

SAMPLEDATA:

AA999999

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CanadianShippingName

DEFINITION:

The dangerous goods shipping name as defined to comply with Transport Canada regulations.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Toxic Solids, self heating n.o.s.

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CancelReason

DOCUMENTATION:

A code specifying the reason for the cancellation of a transaction such as a posting.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

Withdrawn

CODELISTNAME:

Internal

CODELIST:

SYNONYMS:

COMMENTS:

CardHolderName

DEFINITION:

Name of the party in whose name a card is registered such as a credit card, debit card or similar instrument.

DATATYPE:

String

DATALENGTH:

1,50

SAMPLEDATA:

John Q. Public

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Carrier

DEFINITION:
The entity used to transport the product.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CarrierEquipment

DEFINITION:
Requested or actual transportation equipment type used to move product(s).
DATATYPE:
String
DATALENGTH:
2
SAMPLEDATA:
RR
CODELISTNAME:
ANSI ASC X12 40
CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CarrierEquipmentCode

DEFINITION:
Request transportation equipment code list
DATATYPE:
String
DATALENGTH:
1,255
SAMPLEDATA:
Truck
CODELISTNAME:
ANSI ASC X12 40
CODELIST:

SYNONYMS:

COMMENTS:

CarrierReferenceNumber

DEFINITION:
Reference number assigned by the carrier to assist or track a shipment by the carrier.
DATATYPE:
String
DATALENGTH:
1,35
SAMPLEDATA:
1234456, 14-AB13925
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CarrierToExclude

DEFINITION:

Carrier which customer specifically requests NOT be used for a shipment

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CarrierWeights

DEFINITION:

Weight(s) or scale information.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

CarrierWeightsBody

DEFINITION:

The body of the carrier weights message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CarrierWeightsDetails

DEFINITION:

The details of the carrier weights message

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CarrierWeightsPartners

DEFINITION:

The trading partner structure of the carrier weights message

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CarrierWeightsProperties

DEFINITION:

The properties structure of the carrier weights message

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CatalogEffectiveDates

DEFINITION:

Date range in which customer specific catalog entries are valid.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CatalogIdentifier

DEFINITION:

Unique identifier for a catalog.

DATATYPE:

Real

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ChangeAcknowledgmentFlag

DEFINITION:

Indicator that a change in a transaction has been processed.

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y/N

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

ChangeSequenceNumber

DEFINITION:

Number assigned by the buyer identifying a specific change or revision to a previously transmitted transaction set

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

AB12345

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

CityName

DEFINITION:

Name of the city or municipality.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Wilmington, Utrecht

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ClosingDate

DEFINITION:

Date by which a commitment such as an RFQ response (quotation) needs to be at the buyer's system.

DATATYPE:

DateTime

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Code

DEFINITION:
General reference to code listed values
DATATYPE:
String
DATALENGTH:
1,50
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Domain : CDATA

CodeValue

DEFINITION:
Value for a given code.
DATATYPE:
String
DATALENGTH:
1,25
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Comment

DEFINITION:

Structure for general information or comments which does not have a data element for entry or inclusion

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

CommissionPayee

DEFINITION:

Agent or entity which is the recipient of a commission payment.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

CompartmentIdentifier

DEFINITION:

Code identifying the compartment in a compartmentalized tank conveyance or similar transportation equipment.

DATATYPE:

String

DATALENGTH:

1

SAMPLEDATA:

1

CODELISTNAME:

ASC X12 595

CODELIST:**COMMENTS:**

Appendix D – Data Dictionary, continued

ConfirmedPrice

DEFINITION:

Mid-level element containing delivery receipt line items including location and content details.

DATATYPE:

Boolean

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

ConsolidationType

DEFINITION:

The type of allowable consolidation for load configuration(s).

DATATYPE:

String

DATALENGTH:

1,80

SAMPLEDATA:

Corporate Consolidation, Departmental Consolidation, Not Allowed, Inter-Company

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

ContactDescription

DEFINITION:

Description of who/what the contact information refers to.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Carrier, FreightForwarder, Shipper

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ContactInformation

DEFINITION:

The collection of business properties that provide communication and address information for contacting a person, organization or business.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ContactName

DEFINITION:

Name of the contact person(s) or the role within the organization.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Joe Cool

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Content

DEFINITION:

Free form text used to add information which does is not covered by a structured element

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ContractIdentifier

DEFINITION:

The unique number that identifies a contract.

DATATYPE:

String

DATALENGTH:

1,35

SAMPLEDATA:

12345678-12

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ContractNumber

DEFINITION:
The identifying number of a contract
DATATYPE:
Integer
DATALENGTH:
1,50
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS

COMMENTS:

ControlledTemperature

DEFINITION:
The temperature at which the lading is to be maintained.
DATATYPE:
Real
DATALENGTH:
1,5
SAMPLEDATA:
98.6, 232.5
CODELISTNAME:

CODELIST:

SYNONYMS

COMMENTS:

Appendix D – Data Dictionary, continued

ConveyanceInformation

DEFINITION:

Data structure containing transportation and shipping information.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ConveyanceNameorIdentifier

DEFINITION:

Identification of the conveyance and/or trip i.e. train id, vessel name. Meant to convey the highest level of conveyance, not to include container numbers, railcar numbers, etc.

DATA TYPE:

String

DATA LENGTH:

1,35

SAMPLE DATA:

SS MINNOW

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CountryOfFinalDestination

DEFINITION:

The country where product is ultimately delivered or is deemed to have been delivered.

DATATYPE:

String

DATALENGTH:

3

SAMPLEDATA:

USA

CODELISTNAME:

ISO 3166

CODELIST:

SYNONYMS:

COMMENTS:

CountryOfOrigin

DEFINITION:

The country where product originates or is deemed to have originated.

DATATYPE:

String

DATALENGTH:

3

SAMPLEDATA:

USA

CODELISTNAME:

ISO 3166

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CountryOfOriginCode

DEFINITION:
Country where product originates.
DATATYPE:
String
DATALENGTH:
3
SAMPLEDATA:
USA
CODELISTNAME:
ISO 3166
CODELIST:

SYNONYMS:

COMMENTS:

CountryOfUltimateDestination

DEFINITION:
The country where the goods are ultimately destined.
DATATYPE:
String
DATALENGTH:
3
SAMPLEDATA:
USA
CODELISTNAME:
ISO 3166
CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CreditCardExpirationDate

DEFINITION:

The date on which a credit card expires and is no longer valid.

DATATYPE:

DateTime

DATALENGTH:

8

SAMPLEDATA:

20001231

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

CreditCardNumber

DEFINITION:

Number on the Credit Card being used

DATATYPE:

Numeric

DATALENGTH:

1,16

SAMPLEDATA:

1234 5678 9012 3456

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CreditCardType

DEFINITION:

Type of Credit Card as generally identified by the financial institutions.

DATATYPE:

String

DATALENGTH:

1,20

SAMPLEDATA:

Visa, MC, Amex, JCB, Access

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CreditDebitFlagCode

DEFINITION:

Credit or Debit indicator for posting purposes.

DATATYPE:

String

DATALENGTH:

1

SAMPLEDATA:

C, D

CODELISTNAME:

CODELIST:

COMMENTS:

CumulativeTotalQuantity

DEFINITION:

Cumulative quantity of the product shipped associated to a contractor or a blanket purchase order.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

21.5

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CurrencyCode

DEFINITION:

Code of the currency in which the monetary amount is specified.

DATATYPE:

String

DATALENGTH:

1,3

SAMPLEDATA:

USD

CODELISTNAME:

ISO 4217

CODELIST:

SYNONYMS:

COMMENTS:

CurrencyRates

DEFINITION:

The rates at which currency is exchanged.

DATATYPE:

Real

DATALENGTH:

1,10

SAMPLEDATA:

1.4

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CustomerCatalogPrice

DEFINITION:

The price a given customer will pay which is based upon a published catalog.

DATATYPE:

Real

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CustomerRequestedDeliveryHoldFlag

DEFINITION:

Indicator requesting order to be put on hold until notification from buyer, e.g., after a sample has been approved.

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y/N

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

CustomerSpecificCatalogPriceData

DEFINITION:

The price a given customer is quoted which is based upon a published catalog.

DATATYPE:

Real

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CustomerSpecificCatalogUpdate

DEFINITION:

An update to a generally available or customer specific catalog.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

CustomerSpecificCatalogUpdateBody

DEFINITION:

eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

CustomerSpecificCatalogUpdateDetails

DEFINITION:

eStandards Details Structure. It contains the remainder of the message data which was not covered under "Properties" (which is the message 'meta-data' or 'common data') and "Partners" (which is the information about the parties involved).

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

CustomerSpecificCatalogUpdatePartners

DEFINITION:

eStandards Partners Structure. It contains the information about the parties involved in the data exchange.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CustomerSpecificCatalogUpdateProductLineItem

DEFINITION:

The collection of business properties that describe the document entry.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Action : CDATA

Appendix D – Data Dictionary, continued

CustomerSpecificCatalogUpdateProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

CustomsInformation

DEFINITION:

Structure to convey customs related information.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DateTime

DEFINITION:

Structure for ranges or singular values of date/time information. All times are ISO 8601 with Greenwich Mean Time Date format of 8601 is YYYY-MM-DD or YYYYMMDD Time format of 8601 is HH:MM:SSZ or HHMMSSZ (where Z indicates time is GMT)

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

TimeZone : CDATA

DateTimeRange

DEFINITION:

Structure for ranges or singular values of date/time information. All times are ISO 8601 with Greenwich Mean Time Date format of 8601 is YYYY-MM-DD or YYYYMMDD Time format of 8601 is HH:MM:SSZ or HHMMSSZ (where Z indicates time is GMT)-or- Time format of 8601 is HH:MM:SS (not in GMT), but using attribute for time zone

DATATYPE:

String

DATALENGTH:

8,16

SAMPLEDATA:**CODELISTNAME:**

ISO 8601

CODELIST:**SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

DaysDue

DEFINITION:
Number of Days before Discount Expires from PaymentTermsBasisDate
DATATYPE:
Integer
DATALENGTH:
1,3
SAMPLEDATA:
30, 60, 90
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Deferred

DEFINITION:
Terms for a deferred payment in relation to a transaction such as an invoice.
DATATYPE:
String
DATALENGTH:
1,255
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DeferredAmount

DEFINITION:

Monetary amount that is deferred for payment based upon terms in an invoice, contract or agreement.

DATATYPE:

Real

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

DeferredDueDate

DEFINITION:

Date when deferred payment is due

DATATYPE:

DateTime

DATALENGTH:

8

SAMPLEDATA:

20001231

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DeliveryBetweenDateTime

DEFINITION:

Date/time range in which the product must be delivered to the DeliverTo location

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

DeliveryByDateTime

DEFINITION:

Date/time by which the product must be at the DeliverTo location

DATATYPE:

DateTime

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DeliveryContent

DEFINITION:

The content of the delivery as defined by product, storage location, and summary.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

DeliveryDate

DEFINITION:

Date of delivery (planned or actual)

DATATYPE:

DateTime

DATALENGTH:

8

SAMPLEDATA:

20010228

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DeliveryOnDateTime

DEFINITION:
Date/time the product is to be delivered to the location
DATATYPE:
DateTime
DATALENGTH:
8,16
SAMPLEDATA:

CODELISTNAME:
ISO 8601
CODELIST:

SYNONYMS:

COMMENTS:

DeliveryProduct

DEFINITION:
Structure for delivery of products.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DeliveryReceipt

DEFINITION:

Structure for receipt of products. Top level element of the DeliveryReceipt transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

DeliveryReceiptBody

DEFINITION:

High level element containing delivery receipt properties, partners, and details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

DeliveryReceiptDetails

DEFINITION:

Quantity/Product/Location/Delivery time details of the delivery made

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

DeliveryReceiptLineItems

DEFINITION:

The line item description of product received including product, storage, and receipt details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DeliveryReceiptLocation

DEFINITION:

The location where delivery was received including partner details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

DeliveryReceiptPartners

DEFINITION:

Defines the buyer and the seller between which the transaction takes place

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

DeliveryReceiptProperties

DEFINITION:

Mid-level element containing delivery receipt details for language and reference numbers.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

DeliveryReceiptResponse

DEFINITION:

Delivery Receipt Confirmation structure. Top level element of the Delivery Receipt Confirmation transaction.

DATATYPE:

Structure

DATALength:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Public Attributes:

Version : CDATA = 2.0

DeliveryTolerances

DEFINITION:

Limits between which the delivered quantity can vary. Can be specified as either a quantity or percentage.

DATATYPE:

Structure

DATALength:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

UnitOfMeasureCode : CDATA

DemandForecast

DEFINITION:

Demand Forecast structure. Top level element of the Demand Forecast transaction.

DATATYPE:

Structure

DATALength:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Public Attributes:

Version : CDATA = 2.0

DemandForecastBody

DEFINITION:

High level element containing demand forecast properties, partners, and details.

DATATYPE:

Structure

DATALLENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

DemandForecastDetails

DEFINITION:

Mid level element containing forecast line items including product, time horizon, and forecast details.

DATATYPE:

Structure

DATALLENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DemandForecastPartners

DEFINITION:

Defines the buyer and the seller between which the transaction takes place

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

DemandForecastProperties

DEFINITION:

Defines the properties of the DemandForecast and DemandForecastResponse transaction sets.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DemandForecastResponse

DEFINITION:

Demand Forecast Response structure. Top level element of the Demand Forecast Confirmation transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

DemandForecastResponseBody

DEFINITION:

DemandForecastResponseBody structure. Mid level element of the Demand Forecast Response transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

DemandPlan

DEFINITION:

DemandPlan structure. Top level element of the Demand Plan transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

DemandPlanBody

DEFINITION:

High level element containing demand plan properties, partners, and details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

DemandPlanDetails

DEFINITION:

Mid level element containing demand plan line items including product, time horizon, and plan details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

DemandPlanLineItems

DEFINITION:

The line item description of product demand including product, time horizon, and plan details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DemandPlanPartners

DEFINITION:

Defines the buyer and the seller between which the transaction takes place

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

DemandPlanProperties

DEFINITION:

Mid level element containing demand plan properties details for language and reference numbers.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DemandPlanResponse

DEFINITION:

Demand Plan Confirmation structure. Top level element of the Demand Plan Confirmation transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

DemandPlanResponseBody

DEFINITION:

High level element containing demand plan confirmation properties, partners, and details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Description

DEFINITION:
Textual explanation or clarification.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Discount

DEFINITION:
Amount allowed or applied as a credit against a transaction or balance.

DATATYPE:

Real

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DiscountAmount

DEFINITION:
Monetary amount of a discount.
DATATYPE:
Real
DATALENGTH:
1,6
SAMPLEDATA:
20.00, 50.00
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

DiscountDueDate

DEFINITION:
Date when discount expires
DATATYPE:
DateTime
DATALENGTH:
8
SAMPLEDATA:
20001231
CODELISTNAME:
ISO 8601
CODELIST:

SYNONYMS:

COMMENTS:

DispatchOnDateTime

DEFINITION:
Date/time the product will be shipped from plant/warehouse
DATATYPE:
DateTime
DATALENGTH:
8,16
SAMPLEDATA:

CODELISTNAME:
ISO 8601
CODELIST:

SYNONYMS:

COMMENTS:

DocumentDeliveryInformation

DEFINITION:

Structure which contains information for issuing requested documentation

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Public Attributes:

DeliveryMethodQualifier : (Email | Fax | WithDriver | Print | TELEX | Postal)

DocumentIdentifier

DEFINITION:

Identifies a document by a unique pattern

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DocumentReference

DEFINITION:

Structure which contains information that links this request to a reference document, i.e., contract, agreement, etc.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

ReferenceType : NOTATION (PurchaseOrderNumber | PickupNumber | DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber | PRONumber | AppointmentNumber | ShipmentIdentifier | LoadPlanningNumber | BookingNumber | LineItemNumber | SalesOrderReference | RequisitionNumber | LetterOfCredit | CustomerMasterRecordNumber | RequestForQuoteNumber)

Domain

DEFINITION:

The name of the code list being referenced

DATATYPE:

String

DATALENGTH:

1,50

SAMPLEDATA:

ANSI ASC X12 895

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

Duration

DEFINITION:
Elapsed time and/or datetime.
DATATYPE:
String
DATALENGTH:
1,25
SAMPLEDATA:
MON 12 (12 months)
CODELISTNAME:
UN/CEFACT recommendation 20
CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

TimeUnit : (Hour | Day | Week | Month | Year)

DutyDrawback

DEFINITION:
Indicates eligibility for a refund on duties paid to Customs.
DATATYPE:
String
DATALENGTH:
5,25
SAMPLE DATA:
Drawbackallowed
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

DutyStatus

DEFINITION:

Any duty liability on goods moving, but not originating, within the territory, for example within the European Community this is controlled using a 'T' (Transit) form, where the duty liability affecting the price is differentiated using T1 (duty unpaid) and T2 (EC origin or duty paid).

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

ECDutyStatus

DEFINITION:

Any duty liability on goods moving, but not originating, within the European community is controlled using a 'T' (Transit) form. If duty liability affects the price, differentiation between T1 (duty unpaid) and T2 (EC origin or duty paid) is necessary

DATATYPE:

String

DATALENGTH:

2

SAMPLEDATA:

T1/T2

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

EPAWasteStreamNumberCode

DEFINITION:

The waste stream number applicable to the movement of hazardous waste as determined by the US Environmental Protection Agency

DATATYPE:

String

DATALENGTH:

4,6

SAMPLEDATA:

123456

CODELISTNAME:

ANSI ASC X12 806

CODELIST:**SYNONYMS:****COMMENTS:**

EffectiveDates

DEFINITION:

Structure for the period of time (or range) where the information is valid or guaranteed.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

EmailAddress

DEFINITION:

The schema designed to achieve contact via electronic mail.

DATATYPE:

String

DATALENGTH:

1,50

SAMPLEDATA:

joecool@hotmail.com

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

EmergencyResponseContact

DEFINITION:

The person or entity to be contacted in reference to hazardous materials shipments.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

EmergencyResponsePlanNumber

DEFINITION:

The identity number of a specific hazardous emergency response plan such as one that is assigned by the Director General of Canada.

DATATYPE:

String

DATALENGTH:

1,12

SAMPLEDATA:

CD26578

CODELISTNAME:

ANSI ASC X12 238

CODELIST:**SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

EmergencyScheduleCode

DEFINITION:

Code used to describe emergency procedures for handling the hazardous material. Based on UNNA number.

DATATYPE:

String

DATALENGTH:

1,9

SAMPLEDATA:

CODELISTNAME:

ANSI ASC X12 238

CODELIST:

SYNONYMS:

COMMENTS:

EmergencyTemperature

DEFINITION:

Temperature at which the substance or product becomes volatile.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

EngineeringChangeOrderIdentifier

DEFINITION:

Buyer supplied engineering change order document number

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

EngineeringOrderChangeldentifier

DEFINITION:

Buyer supplied engineering change order document number

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

EquipmentDetails

DEFINITION:
Group describing transportation carrier equipment details
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

EquipmentDetailsLineNumber

DEFINITION:
Individual details of equipment information for logistics and transportation.
DATATYPE:
Integer
DATALENGTH:
1,15
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

EquipmentIdentifier

DEFINITION:

Unique identification of a piece of equipment such as used for transportation of product.

DATATYPE:

String

DATALENGTH:

6,20

SAMPLEDATA:

APLU444566

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

EquipmentLoadEmptyStatus

DEFINITION:

The load status of carrier equipment.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

load indicator code

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

LoadIndicatorCode : NOTATION (Loaded | Empty | Unknown | Partial)

Appendix D – Data Dictionary, continued

EquipmentOwnership

DEFINITION:

Indication of relationship of equipment to carrier or ownership of equipment.

DATATYPE:

String

DATALENGTH:

2,4

SAMPLEDATA:

APL

CODELISTNAME:

UN/EDIFACT 8077

CODELIST:

SYNONYMS:

COMMENTS:

ErrorDescription

DEFINITION:

Textual Description of error.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

CODELISTNAME:

CODELIST:

COMMENTS:

ErrorStatus

DEFINITION:

Error indicator of transaction success at completion normally according to predefined acceptance criteria.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

EstimatedTimeOfArrivalDate

DEFINITION:
Date and time shipment or conveyance will arrive at destination.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ExchangeRate

DEFINITION:
Equation which converts monetary amounts into different denominations.
DATATYPE:
String
DATALENGTH:
1,15
SAMPLEDATA:
1.00x1.55=To convert US\$ to British
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Exempt

DEFINITION:

Indicates transaction is not subject to sales, use or other related tax.

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ExportImportRequiredDocument

DEFINITION:

Indicates the type of documents needed for Customs in the importing or exporting countries.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ExternalReference

DEFINITION:

Reference to a document or other such data not internally contained in the transaction.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Contract dated 12/01/1999

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

FaxNumber

DEFINITION:

The numerical schema designed to achieve contact via fax.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

FinancialInstitution

DEFINITION:

Institution that conducts monetary and related transactions such as of the Payer usually identified by the D-U-N-S Number.

DATATYPE:

String

DATALENGTH:

1,13

SAMPLEDATA:

0000111229993

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

FinancialInstitutionDFINumber

DEFINITION:

Routing Number of bank or financial institution such as the Payer Bank as assigned by designated authority.

DATATYPE:

String

DATALENGTH:

1,12

SAMPLEDATA:

021000021

CODELISTNAME:

CODELIST:

COMMENTS:

Thompson Bank Directory/ABA, Canadian Payments Assn Directory, ISO/S.W.I.F.T. Bank Identifier Code Directory

Appendix D – Data Dictionary, continued

FlashpointTemperature

DEFINITION:

Temperature at which combustion will occur.

DATATYPE:

Real

DATALENGTH:

1,4

SAMPLEDATA:

98.6

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Forecast

DEFINITION:

Estimated or project usage and/or requirements for product(s) into a period certain in the future.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ForecastHorizon

DEFINITION:

The forecast defined by quantity and time horizon.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

One can use FromDateTime and Duration or FromDateTimeToDateTime to specify start date and end date

ForecastLineItems

DEFINITION:

The line item description of product forecast including product, time horizon, and forecast details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ForecastProduct

DEFINITION:

The details of the product forecast as defined by product identification codes, package type, ship to, ship from, and transport mode.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Buyer/SellerProductCode can be supplied on Stock Keeping Unit(SKU) level as well as grade and family code level.

ForecastReferenceNumber

DEFINITION:

Number referring to the forecast transaction.

DATATYPE:

Integer

DATALENGTH:

1,15

SAMPLEDATA:

123456

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

FreightBill

DEFINITION:

This message can be used to provide the sender with the capability to transmit an invoice, including charges, allowances and details for transportation services rendered.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

FreightBillBody

DEFINITION:

The body structure of the FreightBill message.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

FreightBillDetails

DEFINITION:

The details structure of the freight bill message

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

FreightBillLineItems

DEFINITION:

Line item detail that makes up total invoice

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

FreightBillNumber

DEFINITION:

Unique identifying number assigned by issuer for a given freight bill transaction.

DATATYPE:

String

DATALENGTH:

1,22

SAMPLEDATA:

AB12345;143694

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

FreightBillPartners

DEFINITION:

The partners structure of the freight bill message

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

FreightBillProperties

DEFINITION:

The properties structure of the freight bill message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

FreightBillTotals

DEFINITION:

Amount of freight bill including charges, less allowances before terms discount if discount is applicable.

DATATYPE:

Real

DATALENGTH:

1,10

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

FreightBillType

DEFINITION:
Financial Classification of Invoice
DATATYPE:
String
DATALENGTH:
1,25
SAMPLEDATA:
Original, Balance Due
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

FreightCharge

DEFINITION:
Monetary amount for the freight portion of the line item total.
DATATYPE:
Real
DATALENGTH:
1,18
SAMPLE DATA:
1999990.56
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

Appendix D – Data Dictionary, continued

FreightIncludedFlag

DEFINITION:

Indicates whether freight is included in pricing.

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y,N

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

From

DEFINITION:

Structure which includes information relating to partner initiating exchange.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

FromDateTime

DEFINITION:
Starting date and time
DATATYPE:
DateTime
DATALENGTH:
8,16
SAMPLEDATA:
20010101
CODELISTNAME:
ISO 8601
CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

TimeZone : CDATA

FullDescription

DEFINITION:
Textual general description of an item such as the product or SKU (marketing description).
DATATYPE:
String
DATALENGTH:
1,255
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

GrossInvoiceAmount

DEFINITION:
Total monetary amount of all line items excluding tax
DATATYPE:
Real
DATALENGTH:
1,255
SAMPLEDATA:
4259.62, 10983.48
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

GrossTotal

DEFINITION:
Total monetary amount of all line items excluding tax
DATATYPE:
Real
DATALENGTH:
1,255
SAMPLEDATA:
4259.62, 10983.48
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

GrossVolume

DEFINITION:
The value of the gross volumetric measure
DATATYPE:
Real
DATALENGTH:
1,13
SAMPLEDATA:
10000
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

GrossWeight

DEFINITION:
Weight of equipment unit including lading, dunnage, packaging, and tare weight.
DATATYPE:
Real
DATALENGTH:
1,15
SAMPLEDATA:
35000
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

HandlingCertificationRequiredCode

DEFINITION:

Type of certification required to handle a product issued or required by competent authority or partners.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Qualified for Hazmat

CODELISTNAME:

Internal

CODELIST:

SYNONYMS

COMMENTS:

HazardousCanadian

DEFINITION:

Provides additional Canada Transport Dangerous Goods requirements.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

HazardousClassPrimary

DEFINITION:

The primary hazardous classification corresponding to the shipping name of the hazardous commodity.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

Explosive, FlammableGas, etc.

CODELISTNAME:

ANSI ASC X12 215

CODELIST:**SYNONYMS:****COMMENTS:**

HazardousClassSecondary

DEFINITION:

The secondary hazardous classification corresponding to the shipping name of the hazardous commodity.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

Explosive, FlammableGas, etc.

CODELISTNAME:

ANSI ASC X12 215

CODELIST:**COMMENTS:**

HazardousClassification

DEFINITION:

Identifies Hazardous Notation and Endorsement Information

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

HazardousEPAREquirements

DEFINITION:

Group of information defining United States Environmental Protection Agency requirements.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

HazardousGoods

DEFINITION:

Structure to convey Hazardous Goods information related to a shipment

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

HazardousInformation

DEFINITION:

Structure to convey specific identification information related to a hazardous shipment.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

HazardousNotation

DEFINITION:

Notation required by regulatory bodies such as Canadian Regulatory Agencies.

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

POISON

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

HazardousPlacardNotation

DEFINITION:

The marking on a conspicuous card or sign corresponding to the hazard class of the hazardous material/dangerous goods.

DATATYPE:

String

DATALENGTH:

14,40

SAMPLEDATA:

INHALATION HAZARD

CODELISTNAME:

ANSI ASC X12 218

CODELIST:**SYNONYMS:****COMMENTS:**

HazardousReportableQuantityCode

DEFINITION:

Mid-level element containing delivery receipt line items including location and content details.

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

ReportableQuantityQualifier : CDATE = RQ

Appendix D – Data Dictionary, continued

HazardousShipment

DEFINITION:

Structure to convey specific requirements for transport of hazardous materials.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

HazardousTransborderRequirements

DEFINITION:

Used to convey additional information required by Canadian Regulations for US to Canada transborder moves when the proper shipping name is or similar to Anhydrous Ammonia and/or Anhydrous Ammonia solutions.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Canadian Certification Data

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

HazardousZoneCode

DEFINITION:

Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone.

DATATYPE:

String

DATALENGTH:

1,1

SAMPLEDATA:

A

CODELISTNAME:

ANSI ASC X12 1023

CODELIST:

A, B, C, D

SYNONYMS:**COMMENTS:**

Header

DEFINITION:

Common structure of every DTD which holds information about the message in general including partner, contact and address information.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

Height

DEFINITION:

The vertical dimension of an object specified in a given Unit of Measure.

DATATYPE:

Real

DATALENGTH:

1,17

SAMPLEDATA:

12

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ImportLicenseAvailableFlag

DEFINITION:

Defines whether or not an important license is available for product shipment

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y/N

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ImportLicenseNeededFlag

DEFINITION:

Defines whether or not an import license is needed for product shipment

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y/N

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InlandDestinationPoint

DEFINITION:

Inland destination point that the material physically is moving to.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

IntermodalService

DEFINITION

Code indicating the type of intermodal service.

DATA TYPE:

String

DATA LENGTH:

1,35

SAMPLE DATA:

40

CODELISTNAME:

ASC X12 177

CODELIST:**SYNONYMS:****COMMENTS:**

Public Attributes:

IntermodalServiceCode : NOTATION (RampToRamp | PointToPoint | PointToPort | PortToPort | PortToPoint)

InternationalShippingName

DEFINITION:

The dangerous goods shipping name as defined to comply with International Maritime Organization regulations.

DATATYPE:

String

DATALLENGTH:

1,255

SAMPLEDATA:

Toxic Solids, self heating n.o.s.

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

InventoryActualUsage

DEFINITION:

InventoryActualUsage structure. Top level element of the InventoryActualUsage transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

InventoryActualUsageBody

DEFINITION:

High level element containing inventory and actual usage properties, partners and details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InventoryActualUsageDetails

DEFINITION:

Mid level element containing inventory and actual usage line items including location and inventory usage details.

DATATYPE:

Structure

DATALLENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

InventoryActualUsagePartners

DEFINITION:

Defines the buyer and the seller between which the transaction takes place.

DATATYPE:

Structure

DATALLENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

InventoryActualUsageProperties

DEFINITION:

Mid level element containing inventory and actual usage properties details for language and reference numbers.

DATATYPE:

Structure

DATALLENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

InventoryActualUsageResponse

DEFINITION:

InventoryActualUsageResponse structure. Top level element of the InventoryActualUsageResponse transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

New element

Public Attributes:

Version : CDATA = 2.0

InventoryActualUsageResponseBody

DEFINITION:

High level element containing inventory and actual usage response properties, partners, and details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

InventoryActualUsageResponseDetails

DEFINITION:

Mid level element containing inventory and actual usage response transaction details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InventoryActualUsageResponsePartners

DEFINITION:

Defines the buyer and the seller between which the transaction takes place.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InventoryActualUsageResponseProperties

DEFINITION:

Mid level element containing inventory and actual usage properties details for language and reference numbers.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InventoryInTank

DEFINITION:

The quantity of inventory previously received into the inventory destination and stored in a tank or silo.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InventoryInTransit

DEFINITION:

The quantity of inventory on transportation equipment not yet received at its destination.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InventoryLevel

DEFINITION:

Quantity of product actually measured or estimated in a tank or similar vessel.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InventoryOnSite

DEFINITION:

Quantity of product actually at a location as measured or estimated.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InventoryOther

DEFINITION:

Quantity of product measured on on hand via other means.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InventoryProduct

DEFINITION:

The details of the product inventory as defined by product identification codes.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InventoryUsage

DEFINITION:

The inventory and usage information as defined by line number, product, storage inventory, and usage details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InventoryUsageLineItems

DEFINITION:

The line item description of product inventory and usage including location, inventory and usage details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InventoryUsageLocation

DEFINITION:

The location of product inventory and usage including partner details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Invoice

DEFINITION:
Transaction to bill for goods or services.
DATATYPE:
Structure.
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

InvoiceAmount

DEFINITION:
The total monetary value in an expressed currency for a billing transaction.
DATATYPE:
Real
DATALENGTH:
1,15
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InvoiceBody

DEFINITION:

High level element containing invoice properties, partners, and details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InvoiceDate

DEFINITION:

Structure for ranges or singular values of date/time information for the invoice date.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InvoiceDetails

DEFINITION:

The details structure of the invoice message

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InvoiceLineItems

DEFINITION:

Line item detail(s) that makes up total invoice message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InvoiceMode

DEFINITION:
Identification of the method by which a customer wishes to be invoiced.
DATATYPE:
String
DATALENGTH:
1,15
SAMPLEDATA:
Fax, email, mail
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

CommunicationMode : NOTATION (Fax | Mail | EDI | eMail | IPaddress)

InvoiceNumber

DEFINITION:
Identifying number for an invoice message assigned by issuer
DATATYPE:
String
DATALENGTH:
1,12
SAMPLEDATA:
AB12345
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InvoiceParties

DEFINITION:

Defines the buyer and the seller between which the transaction takes place.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

InvoicePreference

DEFINITION:

The form of the invoice including delivery and timing options.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

InvoiceProperties

DEFINITION:

Mid level element containing invoice properties details for the invoice message.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

InvoiceQuantity

DEFINITION:

The weight or count of product in a given unit of measure being billed or accounted for in this message.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InvoiceRemitTo

DEFINITION:

Remittance Party Partner Data Detail

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InvoiceStatus

DEFINITION:
Purpose of the invoice transaction.
DATATYPE:
String
DATALENGTH:
1,25
SAMPLEDATA:
Original
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InvoiceTotal

DEFINITION:
Total amount payable including tax and related charges.
DATATYPE:
Real
DATALENGTH:
1,25
SAMPLEDATA:
3593.88, 12432.01
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

InvoiceTotals

DEFINITION:
Totals of Line Items of Invoice for Payment
DATATYPE:
Real
DATALENGTH:
1,25
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

InvoiceType

DEFINITION:
Financial Classification of Invoice
DATATYPE:
String
DATALENGTH:
1,25
SAMPLEDATA:
Credit, Debit
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Jurisdiction

DEFINITION:

The authority exercised by a nation, a judicial body, or a legislative body over persons, places, and property. Jurisdiction may apply to the territory over which a nation has control, including the land area, the adjacent sea, and the airspace above. It may also refer to the authority of an international body to make decisions binding on national entities.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Keyword

DEFINITION:

Mnemonic or shortcut word that can be searched to find product describing what it is - for example, "Resin"

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

RESIN

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

Keywords

DEFINITION:

Mnemonic or shortcut word that can be searched to find product describing what it is - for example, "Resin"

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

RESIN

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Label

DEFINITION:

Actual label that should be printed for the line item.

DATATYPE:

String

DATALENGTH:

1,55

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LadingIdentification

DEFINITION:

Unique code identifying the material being shipped.

DATATYPE:

String

DATALENGTH:

1,55

SAMPLEDATA:

491011

CODELISTNAME:

Lading Identification Qualifier

CODELIST:**SYNONYMS:****COMMENTS:**

Attribute is the Lding Identification Qualifier which will contain the types of codification and associated code list.

Public Attributes:

LadingIdentificationQualifier : NOTATION (NMFC | UN-NA | STCC | EAN | ODETTE | HarmonizedSystemBasedScheduleB | ScheduleB | ShipperDefined | GlobalMaterialIdentifier)

Language

DEFINITION:

Language used for the transaction

DATATYPE:

String

DATALENGTH:

1,3

SAMPLEDATA:**CODELISTNAME:**

ISO 639-2/T

CODELIST:**SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

LanguageCode

DEFINITION:
Language used for the transaction
DATATYPE:
String
DATALENGTH:
1,3
SAMPLEDATA:

CODELISTNAME:
ISO 639-2/T
CODELIST:

SYNONYMS:

COMMENTS:

Length

DEFINITION:
Longest dimension of an object
DATATYPE:
Real
DATALENGTH:
1, 17
SAMPLEDATA:
45
CODELISTNAME:

CODELIST:

SYNONYMS:

LetterOfCreditBank

DEFINITION:
Name of the Banking or Financial Institution issuing the letter of credit.
DATATYPE:
String
DATALENGTH:
1,255
SAMPLE DATA:
Citibank
CODELISTNAME:

CODELIST:

SYNONYMS:

Appendix D – Data Dictionary, continued

LetterOfCreditInformation

DEFINITION:

Group describing the details of the letter of credit associated with a transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LetterOfCreditNegotiatedDateTime

DEFINITION:

Structure holding date range by which the letter of credit must be negotiated in order to be valid.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LetterOfCreditQuantity

DEFINITION:

Structure holding information on the quantity of goods authorized by the letter of credit

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

LetterOfCreditVoyageDateTime

DEFINITION:

Structure holding date range by which the conveyance must depart in order for the letter of credit to be valid.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

LimitDisplayFlag

DEFINITION:

Flag that indicates that this catalog entry should only be shown if a corresponding CustomerSpecificCatalog entry exists.

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y/N

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

LineItemAcceptanceStatus

DEFINITION:

The acceptance status of an individual line item on a posting message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LineItemDebitCreditIndicator

DEFINITION:

Financial Classification of LineItem of message.

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

Credit, Debit

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LineItemLineNumber

DEFINITION:

Sequential number of the line in the document containing an item.

DATATYPE:

Integer

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LineItemNumber

DEFINITION:

Sequential number of the line in the document.

DATATYPE:

Integer

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LineItemPurposeCode

DEFINITION:
The purpose in the message for a given line item.
DATATYPE:
String
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LineItemRequestedAction

DEFINITION:
Specifies the type of action to be performed on a line item.
DATATYPE:
String
DATALENGTH:
3,6
SAMPLEDATA:

CODELISTNAME:
Custom
CODELIST:
ADD;MODIFY;DELETE
SYNONYMS:

COMMENTS:

Public Attributes:

Actions : NOTATION (Add | Modify | Delete)

Appendix D – Data Dictionary, continued

LineItemStatusInformation

DEFINITION:

Contains status information particular to a specific line item.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LineItemTotal

DEFINITION:

Net total amount for line item.

DATATYPE:

Real

DATALENGTH:

1,25

SAMPLEDATA:

25.21, 123.64

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LineItems

DEFINITION:
Individual lines composing a message.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LineNumber

DEFINITION:
Line identifier, generally sequential number, within the transaction.
DATATYPE:
Integer
DATALENGTH:
1,25
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LineResponseReasonCode

DESCRIPTION:
Code requesting an explanation of status of line item, i.e., not product available, backorder, etc.
DATATYPE:
String
DATALENGTH:
1,15
SAMPLEDATA:
Backorder
CODELISTNAME:
RosettaNet GlobalPurchaseOrderLineResponseReasonCode
CODELIST:

SYNONYMS:

Appendix D – Data Dictionary, continued

LineStatusCode

DESCRIPTION:
Status of the line item
DATATYPE:
String
DATALENGTH:
1,15
SAMPLEDATA:
Approved, Acknowledged
CODELISTNAME:
RosettaNetGlobalPurchaseOrderLineStatusCode
CODELIST:

SYNONYMS:

COMMENTS:

ListPrice

DEFINITION:
General published price of a product. Does not include any discounts, freight adjustments, etc.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderIssuedDateTime

DEFINITION:
The date and time that the load tender was created
DATATYPE:
DateTime
DATALENGTH:
8,16
SAMPLEDATA:
20001224T2359Z0500
CODELISTNAME:

CODELIST:
ISO 8601
SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LoadTenderMotor

DEFINITION:

This message provides the motor carrier with detailed bill of lading, rating and scheduling information pertinent for a motor carrier shipment. It is used to tender a shipment to a motor carrier and/or motor carrier shipment details to a motor carrier or third party

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

LoadTenderMotorBody

DEFINITION:

The body of the LoadTenderMotor message.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

LoadTenderMotorDetails

DEFINITION:

The details of the LoadTenderMotor message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderMotorLineItem

DEFINITION:

Individual line within the load tender motor transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LoadTenderMotorPartners

DEFINITION:

The structure of the LoadTenderMotor message that contains the parties to the message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderMotorProperties

DEFINITION:

The properties structure of the LoadTenderMotor message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LoadTenderNumber

DEFINITION:

Unique number assigned to the load tender by sending party

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

LoadTenderOcean

DEFINITION:

This message provides all the information necessary to prepare and distribute a contract of carriage such as an ocean bill of lading, sea waybill, and other shipping documents. May be transmitted to a freight forwarder or customs broker to provide the financial information required by the forwarder or broker to move cargo and provide service requested.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

LoadTenderOceanBody

DEFINITION:

The body of the LoadTenderOcean message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderOceanDetails

DEFINITION:

The details of the LoadTenderOcean message

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LoadTenderOceanLineItem

DEFINITION:

The line items associated with the LoadTenderOcean message

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderOceanPartners

DEFINITION:

The partners associated with the LoadTenderOcean message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderOceanProperties

DEFINITION:

The properties associated with the LoadTenderOcean message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderOceanSubLineItem

DEFINITION:

The sub-line items associated with the LoadTenderOcean message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderRail

DEFINITION:

This message can be used to transmit rail carrier specific bill of lading information to a railroad. It is the initial tender of a shipment between a consignor and a rail carrier and can be used as notification of equipment release and/or a legal bill of lading.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

Appendix D – Data Dictionary, continued

Public Attributes:

Version : CDATA = 2.0

LoadTenderRailBody

DEFINITION:

The body associated with the LoadTenderRail message.

DATATYPE:

Structure

DATALLENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderRailDetails

DEFINITION:

The details associated with the LoadTenderRail message.

DATATYPE:

Structure

DATALLENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LoadTenderRailLineItem

DEFINITION:

The line items associated with the LoadTenderRail message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderRailPartners

DEFINITION:

The partners associated with the LoadTenderRail message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LoadTenderRailProperties

DEFINITION:

The properties associated with the LoadTenderRail message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderResponse

Public Attributes:

Version : CDATA = 2.0

LoadTenderResponseBody

DEFINITION:

The body associated with the LoadTenderResponse message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LoadTenderResponseDetails

DEFINITION:

The details associated with the LoadTenderResponse message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderResponseLineItem

DEFINITION:

The line items associated with the LoadTenderResponse message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LoadTenderResponsePartners

DEFINITION:

The partners associated with the LoadTenderResponse message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoadTenderResponseProperties

DEFINITION:

The properties associated with the LoadTenderResponse message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LocationCode

DEFINITION:

Code defined by National Motor Freight Tariff Association point development group or GPSas the official code assigned to a city or point within a city.

DATATYPE:

String

DATALENGTH:

6,9

SAMPLEDATA:

690456000

CODELISTNAME:

ASC X12 154

CODELIST:**SYNONYMS:****COMMENTs:**

LocationIdentifier

DEFINITION:

Code identifying a unique physical location (like D-U-N-S Number +4 #), or inthe instance of a carrier uses SCAC number

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

LogisticsBillTo

DEFINITION:

The party which receives the invoice for logistics services.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LogisticsBuyer

DEFINITION:

The party responsible for purchasing logistics services.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LogisticsCareOfParty

DEFINITION:

The party on whose behalf tenders the shipment to the carrier. Is usually considered the shipper of record.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LogisticsCarrier

DEFINITION:

The party which actually does the transportation of products.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LogisticsConsignee

DEFINITION:
The party which is the consignee for the transaction.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LogisticsForwarder

DEFINITION:
The party which is the forwarder for the transaction.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LogisticsManufacturer

DEFINITION:

The party which is the manufacturer of the product.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LogisticsRemitTo

DEFINITION:

The party which receives the payment for services done by the carrier.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LogisticsSeller

DEFINITION:

The party which markets the services of the logistics party.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LogisticsShipFrom

DEFINITION:

The location from which the load is originated.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LogisticsShipTo

DEFINITION:

The location to which a shipment is delivered.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LogisticsShipper

DEFINITION:

The party which is the actual shipper of the product(s).

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LogisticsSupplier

DEFINITION:

The party which supplies the logistics services.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

LoosePackageCountQuantity

DEFINITION:

The number of packages not palletized.

DATATYPE:

Integer

DATALENGTH:

1,3

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

LowerLimit

DESCRIPTION:

The lowest amount of product below which delivery will not be accepted.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

40,000 lbs

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

MSDS

DEFINITION:

Material Safety Data Sheet

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ManufacturerInformation

DEFINITION:

Manufacturer information structure.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

ManufacturerProductInformation

DESCRIPTION:

Identifies the manufacturer and specific product information

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

The Phase 1 data dictionary defined the Manufacturer element as a single element using DUNS codes for identifying the manufacturer. In general, it would be a good practice to allow a user to specify either the manufacturer name and/or the DUNS number associated with the manufacturer - the DUNS number may not always be known or available.

Appendix D – Data Dictionary, continued

ManufacturingIdentificationDetails

DEFINITION:

Structure containing information relative to the manufacture of lading.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ManufacturingIdentificationNumber

DEFINITION:

The unique number assigned to lading by the manufacturer.

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ManufacturingIdentificationTypeCode

DEFINITION:

The type of manufacturing unit of the lading.

DATATYPE:

String

DATALENGTH:

1,55

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

MarketPlace

DEFINITION:

Organized economic entities where buyers and sellers can enter into, execute and report on transactions.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

MarketPlaceBuyerIdentifier

DEFINITION:

Identifies the Buyer in the internal MarketPlace-System

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Dow, Dupont

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

MarketPlaceDocumentReference

DEFINITION:

Structure which contains reference for MarketPlace to link to a quote, contract, etc.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

ReferenceType : NOTATION (PurchaseOrderNumber | PickUpNumber | DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber | PRONumber | AppointmentNumber | ShipmentIdentifier | LoadPlanningNumber | BookingNumber | LineItemNumber | SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber | RequestForQuoteNumber)

Appendix D – Data Dictionary, continued

MarketPlaceFinancialInstitution

DEFINITION:

Financial institution that conducts business in a market place through such things as payments, letters of credit, and collections.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

MarketPlaceIdentifier

DEFINITION:

Identifies the MarketPlace using, for example, a D.U.N.S.-Code

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

MarketPlaceInformation

DEFINITION:

Structure to identify the internal information and references of an exchange inside the marketplace.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

MarketPlaceSellerIdentifier

DEFINITION:

Identifies the Seller in the internal MarketPlace-System

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

Dow, Dupont

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

MarketingName

DEFINITION:

The sold as name for a particular product. This may be more than one depending upon the market(s).

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Registration : NOTATION (RegisteredTradeMark | RegisteredTradeName)

MaximumMeasurement

DEFINITION:

Largest quantity allowed per Letter of Credit.

DATATYPE:

Real

DATALENGTH:

1,25

SAMPLEDATA:

1,000,000 lbs

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

UnitOfMeasureCode : CDATA

Appendix D – Data Dictionary, continued

MaximumQuantity

DEFINITION:

Largest quantity of a product or product mix that can be purchased in a given transaction or totally.

DATATYPE:

Real

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Measurement

DEFINITION:

Widely usable structure for ranges or singular values of technical data or specified values.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

LBR 5000 (5000 lb/5000 pounds)

CODELISTNAME:

UN/CEFACT recommendation 20

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

UnitOfMeasureCode : CDATA

Appendix D – Data Dictionary, continued

MeasurementRange

DEFINITION:
Widely usable structure for ranges of measures.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

MinimumMeasurement

DEFINITION:
Smallest quantity or measure allowed.
DATATYPE:
Real
DATALENGTH:
1,25
SAMPLEDATA:
750,000 lbs
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

UnitOfMeasureCode : CDATA

Appendix D – Data Dictionary, continued

MinimumOrderQuantity

DEFINITION:
Minimum quantity that can be ordered at one time
DATATYPE:
Real
DATALENGTH:
1,10
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

MinimumQuantity

DEFINITION:
Smallest quantity that can be purchased, manufactured or shipped.
DATATYPE:
Real
DATALENGTH:
1,10
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

MonetaryAmount

DEFINITION:

Currency value of a transaction or item in a stated currency.

DATATYPE:

Real

DATALENGTH:

1,25

SAMPLEDATA:

\$1,500,000.00US

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

CurrencyCode : CDATA

NAICSNumber

DEFINITION:

The NAICS Number

DATATYPE:

Integer

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

NetExplosiveQuantity

DEFINITION:

Net weight of the explosive quantity of the hazardous commodity

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

NetVolume

DEFINITION:

The net value of volumetric measure.

DATATYPE:

Real

DATALENGTH:

1,13

SAMPLEDATA:

10000

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

NetWeight

DEFINITION:
The weight of the lading.
DATATYPE:
Real
DATALENGTH:
1,17
SAMPLEDATA:
40000
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

NonExempt

DEFINITION:
Transaction or party is not exempt from taxes that may be applied to the transaction.
DATATYPE:
Boolean
DATALENGTH:
1
SAMPLEDATA:
Y
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

NotAvailableInCountryCode

DEFINITION:

Product is not available in this country noted by a unique numeric prefix for a country code

DATATYPE:

Integer

DATALENGTH:

3

SAMPLEDATA:

CODELISTNAME:

ISO 3166

CODELIST:

SYNONYMS:

COMMENTS:

NotOtherwiseSpecifiedRequirements

DEFINITION:

The commodity is subject to the regulatory requirements for Not Otherwise Specified.

DATATYPE:

String

DATALENGTH:

3,3

SAMPLEDATA:

N.O.S.

CODELISTNAME:

ASC X12 895

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

NotOtherwiseSpecifiedFlagCode : ID

Appendix D – Data Dictionary, continued

NumberFullPallets

DEFINITION:
The quantity of full pallets contained for this line number
DATATYPE:
Integer
DATALENGTH:
1,3
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

NumberOfCopies

DEFINITION:
Number of copies of the documentation.
DATATYPE:
Integer
DATALENGTH:
1,2
SAMPLEDATA:
4
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

NumberOfOriginals

DEFINITION:
Number of originals of the documentation.
DATATYPE:
Integer
DATALENGTH:
1,2
SAMPLEDATA:
4
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

NumberOfUnits

DEFINITION:
Number of units required to deliver the requested quantity, whenever the packaging does not have a fixed relationship to the quantity
DATATYPE:
Integer
DATALENGTH:
1,10
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:
PackageQuantity
COMMENTS:

Appendix D – Data Dictionary, continued

NumberPackagingUnits

DEFINITION:

Number of packaging units required to deliver the requested quantity, whenever the packaging does not have a fixed relationship to the quantity

DATATYPE:

Integer

DATALENGTH:

1,10

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:**

PackageQuantity

COMMENTS:

OT55Flag

DEFINITION:

Indicator if commodity is on the following schedule. If '0', then the commodity is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If '1', then the commodity is an Association of American Railroads Operations and Transportation Bulletin 55 commodity.

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

1

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

OrderCancel

DEFINITION:
Structure with information required to cancel an order

DATATYPE:
Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

OrderCancelBody

DEFINITION:
eStandard Body Structure. Contains the message-specific metadata in up to three sections: Properties, Partners, and Details.

DATATYPE:
Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

OrderCancelPartners

DEFINITION:

eStandards Partners Structure. It contains the information about the parties involved in the data exchange.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

OrderCancelProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

OrderCancelResponse

DEFINITION:

Top-level element of the OrderCancelResponseMessage

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

OrderCancelResponseBody

DEFINITION:

eStandard OrderCancelResponseBody structure which contains information needed to respond to OrderCancel

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

OrderCancelResponsePartners

DEFINITION:

eStandards Partners Structure - Contains the information about the parties involved in transaction

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

OrderCancelResponseProperties

DEFINITION:

eStandards Properties Structure. Contains the message 'meta-data' or 'common data' elements

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

Appendix D – Data Dictionary, continued

OrderChange

DEFINITION:

Top-Level element structure of the Order Change message

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

OrderChangeBody

DEFINITION:

eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

OrderChangeDetails

DEFINITION:

eStandards Details Structure. It contains the remainder of the message data which was not covered under "Properties" (which is the message 'meta-data' or 'common data') and "Partners" (which is the information about the parties involved).

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

OrderChangePartners

DEFINITION:

eStandards Partners Structure. It contains the information about the parties involved in the data exchange.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

OrderChangeProductLineItem

DEFINITION:

Product(s) on a given or set of line items on the order change transaction that will modify an initial order.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

OrderChangeProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

OrderCreate

DEFINITION:
Top-level structure to OrderCreate
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

OrderCreateBody

DEFINITION:
eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

OrderCreateDetails

DEFINITION:

eStandards Details Structure. It contains the remainder of the message data which was not covered under "Properties" (which is the message 'meta-data' or 'common data') and "Partners" (which is the information about the parties involved).

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

OrderCreatePartners

DEFINITION:

eStandards Partners Structure. It contains the information about the parties involved in the data exchange.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

OrderCreateProductLineItem

DEFINITION:

Product(s) on a given or set of line items on the order change transaction that will create an initial order.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

OrderCreateProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

OrderLeadTime

DEFINITION:
Time, in days, from order to delivery
DATATYPE:
Integer
DATALENGTH:
1,3
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

OrderResponse

DEFINITION:
Top-level element of the OrderResponse message
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

OrderResponseBody

DEFINITION:

eStandards Details Structure. It contains the remainder of the message data which was not covered under "Properties" (which is the message 'meta-data' or 'common data') and "Partners" (which is the information about the parties involved).

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

OrderResponseDetails

DEFINITION:

eStandards Details Structure. It contains the remainder of the message data which was not covered under "Properties" (which is the message 'meta-data' or 'common data') and "Partners" (which is the information about the parties involved).

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

OrderResponsePartners

DEFINITION:

eStandards Partners Structure. It contains the information about the parties involved in the data exchange.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

OrderResponseProductLineItem

DEFINITION:

Product(s) on a given or set of line items on the order response transaction that will answer an inquiry on the order.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

OrderResponseProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

OrderSatusRequest

DEFINITION:

Top-level element of the OrderStatusRequest message

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

OrderStatusRequestBody

DEFINITION:

eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

OrderStatusRequestDetails

DEFINITION:

eStandards Details Structure. It contains the line item information elements necessary to request the status of an order.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

OrderStatusRequestPartners

DEFINITION:

eStandards Structure which contains Partner information required to inquire about the status of an order.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

OrderStatusRequestProductLineItem

DEFINITION:

Product(s) on a given or set of line items on the order status request transaction that will answer an inquiry on the order.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

OrderStatusRequestProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

OrderStatusResponse

DEFINITION:

Top-level element of the OrderStatusResponse message

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

OrderStatusResponseBody

DEFINITION:

eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.

DATATYPE:

Structure

DATALLENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

OrderStatusResponseDetails

DEFINITION:

eStandards Details Structure. It contains line item information elements.

DATATYPE:

Structure

DATALLENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

OrderStatusResponsePartners

DEFINITION:

eStandards structure which contains partner information required to report the status of an order.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

OrderStatusResponseProductLineItem

DEFINITION:

eStandards structure which contains product line item information required to report the status of an order.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

OrderStatusResponseProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Originator

DEFINITION:

Identifies the original source of the posting.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

This element is optional which implies that anonymity can be enforced by a marketplace that exports or replicates a posting.

Appendix D – Data Dictionary, continued

PONumber

DEFINITION:

Purchase order number.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

One can use FromDateTime and Duration or FromDateTimeToDateTime to specify start date and end

PackageDetail

DEFINITION:

Structure containing information on the Packaging of the lading.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PackageLevel

DEFINITION:
Indication of the level of packaging specified.
DATATYPE:
String
DATALENGTH:
1,32
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PackageType

DEFINITION:
Generally describes the type of containerization, boxing, shrink wrapping or other such procedures to prepare and ship products on carriers.
DATATYPE:
String
DATALENGTH:
1,32
SAMPLEDATA:
BULK
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PackageWeight

DEFINITION:

The gross weight of the package.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

PackagingInformation

DEFINITION:

Information about the type of packaging available as part of the product. This is generally viewed as one of the features of the product as opposed to "package" which is what is actually done as the time of shipping to prepare and send product(s) on carriers. Allows recursive access to subpackaging information

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Optional because the type of packaging may not always be known when creating a posting.

Appendix D – Data Dictionary, continued

PackagingLabel

DEFINITION:

The marking put on a product/packaging combination so that it can be identified and handled.

DATATYPE:

String

DATALENGTH:

1,35

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PackagingQuantity

DEFINITION:

The quantity per package. Units are captured in the MaterialUnitofMeasureCode attribute.

DATATYPE:

Integer

DATALENGTH:

1,10

SAMPLEDATA:

600

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

It's often helpful to know how much of a material is in a container or package. This information may be given in the PackageDescription element.

Appendix D – Data Dictionary, continued

PackagingType

DEFINITION:

Generally describes the type of packaging.

DATATYPE:

String

DATALENGTH:

1,32

SAMPLEDATA:

Drum

CODELISTNAME:

Custom

CODELIST:

drum, IBC, bulk, bag, pail, jug,etc.

SYNONYMS:**COMMENTS:**

Although the information captured in this element is probably available in thePackageDescription element, it would be good to be able to extract this information so that potential counter-parties could filter against this field. Could have used PackageCode element as defined in Phase 1 which used theX12 103 code table. Didn't because the X12 103 3-character codes are obsolete and contrary to the notion of creating documents that are human-readable. Feel like we either need to develop our own code table with simplified values such as those listed above, or refer to much more detailed codes than are currently available in X12 103.

PackagingWeight

DEFINITION:

Weight of the empty packaging

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

PackingGroupCode

DEFINITION:

Code indicating the degree of danger in terms of Roman number I, II or III.

DATATYPE:

String

DATALENGTH:

1,3

SAMPLEDATA:

II

CODELISTNAME:

ASC X12 254

CODELIST

I, II, III

SYNONYMS:

COMMENTS:

PalletPackageCountQuantity

DEFINITION:

The number of pallets the material is packed on at the shipment line level.

DATATYPE:

Integer

DATALENGTH:

1,3

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PalletQuantityInformation

DEFINITION:

Structure defining quantities associated with the pallets.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ParentManufacturingIdentificationNumber

DEFINITION:

The unique number assigned to the lading by the parent manufacturer.

DATATYPE:

Real

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PartnerIdentifier

DEFINITION:

A unique business identifier. The D-U-N-S Number is specified by RosettaNet.

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

PartnerRole : NOTATION (Shipper | Carrier | CustomsBroker | BillToParty | Consignee | NotifyParty | CareOfParty | UltimateConsignee | FreightForwarder | TransportationBroker | CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace | SoldTo | Inspection | ShipTo | Buyer | Seller)

PartnerInformation

DEFINITION:

All information necessary to describe a business partner

DATATYPE:

Structure.

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

PartnerName

DEFINITION:

Product(s) on a given or set of line items on the order change transaction that will modify an initial order.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Payer

DEFINITION:

Party which settles the invoice for delivery or services. Payer is not necessarily the "BillTo" party, a separate element has been included for that data.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Payment

DEFINITION:
Transaction for remittance for goods or services.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Attribute : CDATA = 2.0

PaymentAmount

DEFINITION:
Net monetary amount paid for good or services on a payment transaction.
DATATYPE:
Real
DATALENGTH:
1,15
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PaymentBody

DEFINITION:

eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

PaymentDate

DEFINITION:

Date payment is made

DATATYPE:

Datetime

DATALENGTH:

8

SAMPLEDATA:

20001231

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

PaymentDates

DEFINITION:
Date(s) payment is made
DATATYPE:
Datetime
DATALENGTH:
8
SAMPLEDATA:
20001231
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PaymentDetail

DEFINITION:
Transaction to record the details of a payment.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

PaymentDetailBody

DEFINITION:

eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PaymentDetailDetails

DEFINITION:

Transaction to record the details of a payment.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PaymentDetailParties

DEFINITION:

The partners in a given transaction for payment details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PaymentDetailProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PaymentDetails

DEFINITION:

Transaction to record the details of a payment.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PaymentDueDate

DEFINITION:

Date payment is due

DATATYPE:

Datetime

DATALENGTH:

8

SAMPLEDATA:

01012000

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PaymentFormatCode

DEFINITION:
Identifies payment format to be used
DATATYPE:
String
DATALENGTH:
10
SAMPLEDATA:
BPT, CCP, CCD
CODELISTNAME:
ANSI ASC X12 812
CODELIST:

SYNONYMS:

COMMENTS:

PaymentMethod

DEFINITION:
Method for the movement of payment instructions
DATATYPE:
String
DATALENGTH:
3
SAMPLEDATA:
ACH, FEW, CCC
CODELISTNAME:
ANSI ASC X12 591
RosettaNet GlobalPaymentMethodCode
CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PaymentMethodCode

DEFINITION:

Method of Payment

DATATYPE:

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

RosettaNet GlobalPaymentMethodCode

CODELIST:

SYNONYMS:

COMMENTS:

PaymentParties

DEFINITION:

The partners in a given payment transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PaymentProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PaymentResponse

DEFINITION:

The transaction to respond to a payment.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

PaymentResponseBody

DEFINITION:

eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS::

PaymentResponseDetails

DEFINITION:

Transaction for responding to a payment with details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PaymentResponseParties

DEFINITION:

The partners in a given payment response transaction.

DATATYPE:

Structure.

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PaymentResponseProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PaymentTerms

DEFINITION:

Terms of monetary settlement for a sale.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Net 30, LumpSum

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PaymentTermsBasisDate

DEFINITION:

Date from which Payment Terms are calculated

DATATYPE:

Datetime

DATALENGTH:

8

SAMPLEDATA:

01012000

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Date is calculated based on prior or existing agreement between the parties involved

Appendix D – Data Dictionary, continued

PaymentTermsBasisDateCode

DEFINITION:
Code identifying the beginning of the terms period
DATATYPE:
Integer
DATALENGTH:
1,2
SAMPLEDATA:
1,2,3
CODELISTNAME:
ANSI ASC X12 333
CODELIST:

SYNONYMS:

COMMENTS:

Penalty

DEFINITION:
Percent used to calculate the penalty on any unpaid balance.
DATATYPE:
Real
DATALENGTH:
1,6
SAMPLEDATA:
.10, .25
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PercentActive

DEFINITION:
The dry content in a liquid solution.
DATATYPE:
Real
DATALENGTH:
1,8
SAMPLEDATA:
49.9986
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:
Shown as a percentage.....

PercentDeferredPayable

DEFINITION:
Percentage of an amount due that is deferred for payment.
DATATYPE:
Real
DATALENGTH:
1,6
SAMPLEDATA:
.20, .50
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PercentDiscount

DEFINITION:
Discount applied to the Purchase as a percentage
DATATYPE:
Real
DATALENGTH:
1,6
SAMPLEDATA:
.20, .50
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PhoneNumber

DEFINITION:
Numerical scheme to reach a telephone attached to the network.
DATATYPE:
Integer
DATALENGTH:
1,10
SAMPLEDATA:
2421234567
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Plan

DEFINITION:

The demand plan or supply plan defined by the time horizon and quantity.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

PlanHorizon

DEFINITION:

The time span of the demand plan or supply plan defined by date range or start date and duration.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

PlanProduct

DEFINITION:

The details of the product demand plan or supply plan as defined by product identification codes, package type, ship to, ship from, and transport mode.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Buyer/SellerProductCode can be supplied on Stock Keeping Unit(SKU) level as well as grade and family code level.

PlanQuantity

DEFINITION:

The actual product quantity per forecast/plan bucket or data container, usually time based (i.e. week, month or quarter....)

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PlanWindow**DEFINITION:**

The time bucket of the forecast, demand plan or supply plan as defined by date range or start date and duration.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

One can use FromDateTime and Duration or FromDateTimeToDateTime to specify start date and end

PlannedEndUse**DEFINITION:**

Final use of the product

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Automotive industry, medical, coatings

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

PortOfDischarge

DEFINITION:

The port or location of unloading

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PortOfEmbarkation

DEFINITION:

The port of departure or loading

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostBoxNumber

DEFINITION:

The identity of a physical box within a postal facility to accept and receive mail.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

114, 29J

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostalCode

DEFINITION:

The code assigned by local postal authorities to delivery addresses.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

SW1, 20150-0150

CODELISTNAME:

Country specific

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostalCountry

DEFINITION:

Name generally known by postal organizations such that deliveries can be done.

DATATYPE:

String

DATALENGTH:

1,45

SAMPLEDATA:

Germany, Brazil

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

PostingAccept

DEFINITION:

Transaction to make an offer to accept a posting in a marketplace or internet based marketing organization.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

PostingAcceptBody

DEFINITION:
Body of the PostingAccept transaction.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingAcceptDetails

DOCUMENTATION:
Detail section that contains the offer to accept a posting.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostingAcceptLineItems

DEFINITION:

The details of the line items that are being accepted.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Can't assume that the current version of a line item is being accepted. By forcing the accepting party to send the data belonging to the line item, the originating marketplace can make sure that the current version is being accepted.

PostingAcceptNumber

DEFINITION:

Unique number as issued by the marketplace for a given posting.

DATATYPE:

String

DATALENGTH:

1,10

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

PostingAcceptPartners

DEFINITION:

Identifies the buyer or seller who is initiating the acceptance.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Note: this is required. In the response it will be optional. This is the official definition of Posting Partners, all other posting transactions should follow this definition.

PostingAcceptProperties

DEFINITION:

Properties for the PostingAccept transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

This is the official definition of Posting Properties, all other posting transactions should follow this definition.

Appendix D – Data Dictionary, continued

PostingAcceptResponse

DEFINITION:

Transaction for the acceptance or rejection of an offer to accept a posting.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

PostingAcceptResponseBody

DEFINITION:

Body of the Posting Accept Response transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostingAcceptResponseDetails

DEFINITION:

Detail section that contains the acceptance or rejection of an offer to accept a posting.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingAcceptResponseLineItems

DEFINITION:

The acceptance status for the accepted line-item.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostingAcceptResponsePartners

DEFINITION:

Identifies the buyer and seller involved in the acceptance of a posting.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

This is the official definition of Posting Partners, all other posting transactions should follow this definition.

PostingAcceptResponseProperties

DEFINITION:

Properties for the PostingAcceptResponse transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

This is the official definition of Posting Properties, all other posting transactions should follow this definition.

Public Attributes:

Type : NOTATION (Accept | Reject)

Appendix D – Data Dictionary, continued

PostingCancel

DEFINITION:
Transaction to cancel an existing posting.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

PostingCancelBody

DEFINITION:
eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostingCancelLineItems

DEFINITION:

Individual lines on a posting cancel transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingCancelProperties

DEFINITION:

Transaction-specific properties.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

This is the official definition of Posting Properties, all other posting transactions should follow this definition.

Public Attributes:

Type: NOTATION (All | Nothing | Partial)

Appendix D – Data Dictionary, continued

PostingCancelRequestType

DEFINITION:

Indicates whether the cancel request is an all-or-nothing request, i.e. all line items must be cancelled or already inactive in order for any line item to be cancelled; or, whether partial cancellations are ok, i.e. cancel the line items that can be cancelled, even if not all the active line items can be cancelled.

DATATYPE:

String

DATALENGTH:

1,256

SAMPLEDATA:**CODELISTNAME:**

Custom

CODELIST:

all or nothingpartial

SYNONYMS:**COMMENTS:**

PostingCancelResponse

DEFINITION:

Transaction to respond to a cancellation request.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

PostingCancelResponseBody

DEFINITION:

Transaction-specific data.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingCancelResponseCode

DEFINITION:

The code that indicates the response to the cancel request.

DATATYPE:

String

DATALENGTH:

1,256

SAMPLEDATA:

Completed - no exceptions

CODELISTNAME:

Custom

CODELIST:

Completed A - all line items cancelled
Completed B - all line items inactive or cancelled
Failed - posting not found
Failed - unauthorized request
Failed - posting already cancelled
Failed - posting already expired
Failed - posting already accepted
Failed - unable to lock posting, no line items cancelled
Failed - some line items remain active

SYNONYMS:

Appendix D – Data Dictionary, continued

PostingCancelResponseDetails

DEFINITION:

Detail section that contains the cancel response.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingCancelResponseProperties

DEFINITION:

Properties for the cancel posting response transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

This is the official definition of Posting Properties, all other posting transactions should follow this definition.

Appendix D – Data Dictionary, continued

PostingChange

DEFINITION:

Make a change to an existing post of supply of or demand for one or more materials to a marketplace.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

PostingChangeBody

DEFINITION:

Transaction-specific data for PostingChange transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

PostingChangeDetails

DEFINITION:

Post the supply of or demand for one or more materials to a marketplace.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingChangeLineItems

DEFINITION:

The line items that belong to the posting being changed.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Note: it is the responsibility of the marketplace to make sure that the correct line items being updated.

Appendix D – Data Dictionary, continued

PostingChangePartners

DEFINITION:

Partners for the change posting transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

A posting's originator cannot be added or changed once the posting is created. This is the official definition of Posting Partners, all other posting transactions should follow this definition.

PostingChangeProperties

DEFINITION:

Transaction-specific properties of a posting for the PostingChange transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

This is the official definition of Posting Properties, all other posting transactions should follow this definition.

Appendix D – Data Dictionary, continued

PostingCreate

DEFINITION:

Post the supply of or demand for one or more materials to a marketplace.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

PostingCreateBody

DEFINITION:

Post the supply of or demand for one or more materials to a marketplace.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostingCreateDetails

DEFINITION:

A structure containing the line-item details in a posting.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingCreateLineItems

DEFINITION:

The line items that belong to the posting being created.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostingCreatePartners

DEFINITION:

Partner information in addition to the 'to' and 'from' information that is contained in the Header element.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingCreateProperties

DEFINITION:

Properties for the posting create transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

This is the official definition of Posting Properties, all other posting transactions should follow this definition.

Appendix D – Data Dictionary, continued

PostingInstructions

DEFINITION:

Information that helps to govern the behavior of a marketplace with regard to a posting.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

PostingNumber

DEFINITION:

The code used to identify a posting.

DATATYPE:

String

DATALENGTH:

1,50

SAMPLEDATA:

ABC-017933-2

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Type : NOTATION (Buy | Sell)

Appendix D – Data Dictionary, continued

PostingResponse

DEFINITION:

Response to a posting create or posting change transaction. Can include changes.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

PostingResponseBody

DEFINITION:

Body of the posting response transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostingResponseDetails

DEFINITION:

Details of the posting response transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingResponseInformation

DEFINITION:

Information that can be used to clarify or detail the posting response.

DATATYPE:

String

DATALENGTH:

1,256

SAMPLEDATA:

Partial - new posting accepted with line-item exceptions

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Probably most useful as a Posting Change response. Would provide opportunity for recording changes to effective dates, audience elements since there is no place to reflect those changes in the details structure.

Appendix D – Data Dictionary, continued

PostingResponseLineItems

DEFINITION:

The line item detail in the posting response.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

PostingResponseNumber

DEFINITION:

The code used to indicate whether a new posting has been accepted or rejected, or whether submitted changes to an existing posting have been accepted or not.

DATATYPE:

String

DATALENGTH:

1,256

SAMPLEDATA:

OK

CODELISTNAME:

Custom

CODELIST:

(in response to a CreatePosting message)OK - new posting accepted without exceptionFailed - unauthorizedFailed - cannot create, duplicate postingFailed - cannot create, invalid data parameters(in response to a ChangePosting message)OK - changes accepted without exceptionFailed - cannot find postingFailed - unauthorizedFailed - no line items acceptedPartial - new posting accepted with line-item exceptions

SYNONYMS:**COMMENTS:**

Appendix D – Data Dictionary, continued

PostingResponseProperties

DEFINITION:

Properties for the posting response transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

This is the official definition of Posting Properties, all other posting transactions should follow this definition.

PostingStatusRequest

DEFINITION:

Transaction to inquire about the status of an existing posting.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

PostingStatusRequestBody

DEFINITION:
Body of the PostingStatusRequest transaction.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingStatusRequestDetails

DEFINITION:
Identifies the specific line items when a line-item inquiry is being made.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostingStatusRequestProperties

DEFINITION:

Properties for the PostingStatusRequest transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

This is the official definition of Posting Properties, all other posting transactions should follow this definition.

PostingStatusRequestType

DEFINITION:

The type of inquiry or request being made.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

posting status

CODELISTNAME:

Custom

CODELIST:

posting status line-item status

SYNONYMS:

COMMENTS:

This field could also be used to ask about the status of a posting across multiple marketplaces. It could also be used to get a status detail report.

Appendix D – Data Dictionary, continued

PostingStatusResponse

DEFINITION:

The current and history status of a posting. The current status is simply a copy of that status that was effective when this document was generated. This is done so that when this document is received, the current status can be seen without the need for processing.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:**

Public Attributes:

Version : CDATA = 2.0

PostingStatusResponseBody

DOCUMENTATION:

Transaction-specific data for the PostingStatusResponseBody transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

PostingStatusResponseCode

DEFINITION:

The status of the posting.

DATATYPE:

string

DATALENGTH:

256

SAMPLEDATA:

CODELISTNAME:

Custom

CODELIST:

acceptedrejectedactiveexpiredcancellednot foundpendinglocked

SYNONYMS:

COMMENTS:

PostingStatusResponseDetails

DEFINITION:

Detail section that contains the posting status history and the current status.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PostingStatusResponseLineItems

DEFINITION:

The status of specific line items that belong to a posting.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PostingStatusResponseProperties

DEFINITION:

Properties for the create posting transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

This is the official definition of Posting Properties, all other posting transactions should follow this definition.

Appendix D – Data Dictionary, continued

PostingType

DEFINITION:

A code that can be used to indicate the default properties and behaviors of the posting.

DATATYPE:

String

DATALENGTH:

1,256

SAMPLEDATA:

auction

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

The values in this field would be marketplace-specific.

PriceBasis

DEFINITION:

The rules upon which pricing is based in a transaction.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

LIST;SPECIAL

CODELISTNAME:

Internal

CODELIST:**SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

PriceEffectiveDate

DEFINITION:
Date that catalog and pricing is effective
DATATYPE:
DateTime
DATALENGTH:
8
SAMPLEDATA:

CODELISTNAME:
ISO 8601
CODELIST:

SYNONYMS:

COMMENTS:

PriceInformation

DEFINITION:
Structure defining the price, currency and the number of units for which the price is offered.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PriceModifierDown

DEFINITION:

Hash table of quantity and unit price pairs relating to quantity discounts, shipping charges, etc.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PriceModifierUp

DEFINITION:

Hash table of quantity and unit price pairs relating to discounts, shipping charges, etc.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PriceReason

DEFINITION:
Code indicating justification for price.
DATATYPE:
String
DATALENGTH:
1,15
SAMPLEDATA:
LIST;SPECIAL
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PriceShippingTerms

DEFINITION:
Provides the INCO shipping terms that make a price meaningful.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PriceStructure

DEFINITION:

Structure containing information used to specify the pricing for a line item, product or offering.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Pricing

DEFINITION:

Price information about the monetary amount, the currency and price basis for it.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PrimaryCurrency

DEFINITION:

The default or assumed currency type for a given transaction.

DATATYPE:

String

DATALENGTH:

1,3

SAMPLEDATA:

CODELISTNAME:

ISO 4217

CODELIST:

SYNONYMS:

COMMENTS:

ProductCatalogPriceData

DEFINITION:

Pricing data structure in an update transaction to a catalog such as price increases, decreases, and changes to order quantities.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ProductCatalogUpdate

DEFINITION:

Top-level element of the ProductCatalogUpdate transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

ProductCatalogUpdateBody

DEFINITION:

Body of the ProductCatalogUpdate transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ProductCatalogUpdateDetails

DOCUMENTATION:

Detail section that contains the individual details for update(s) to a product catalog.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ProductCatalogUpdatePartners

DEFINITION:

eStandards Partners Structure for ProductCatalogUpdate. It contains the information about the parties involved in the data exchange.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ProductCatalogUpdateProductLineItem

DEFINITION:

Individual product items in a catalog update.

DATATYPE:

Structure

DATALength:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Action : CDATA

ProductCatalogUpdateProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALength:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ProductClassificationCode

DEFINITION:

A grouping of products into a predefined category based upon similar traits such as chemical properties, marketing methods, or other mutually agreed upon criteria.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

AMINES;CATALYSTS

CODELISTNAME:

Internal

CODELIST:**SYNONYMS:**

ProductType;ProductCategory;ProductGroup

COMMENTS:

ProductCode

DEFINITION:

Unique down to the packaging level. It is a business partner assigned

DATATYPE:

String

DATALENGTH:

48

SAMPLEDATA:

040-060; 12-3456-789-01

CODELISTNAME:**CODELIST:****SYNONYMS:**

ProductNumber, ItemNumber, MaterialIdentifier, SKU

COMMENTS:

Appendix D – Data Dictionary, continued

ProductDescription

DEFINITION:

The description of the product in a catalog, transaction or a posting.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

ethylenediamine-N,N,N',N'-tetraacetic acid, tetrasodium salt

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

ProductFamilyName

DEFINITION:

The category of products a given product will fall into based up agreed upon classification criteria such as the commodity attribute list name, e.g., ABS

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ProductGradeDescription

DEFINITION:

The quality grade of the product being bought or sold. This is a method to discriminate products that may not be of standard quality.

DATATYPE:

String

DATALENGTH:

1,128

SAMPLEDATA:

70% solution, low chloride

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ProductIdentification

DEFINITION:

Identifying information for a given product

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ProductIdentifier

DEFINITION:

Unique code or number for a specific product.

DATATYPE:

String

DATALENGTH:

1,48

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:**

ProductNumber, ItemNumber, MaterialIdentifier, SKU,Product Code

COMMENTS:

Public Attributes:

Agency : NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer | ANSI | GBABA | EDIFACT
| AssignedByManufacturer)

ProductInformation

DEFINITION:

e-Standards structure for completely defining a product.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ProductLineItem

DEFINITION:
Individual products per line number on a document.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ProductQuantity

DEFINITION:
Count of other measure of product in a transaction as attached to a given unit of measure.
DATATYPE:
Real
DATALENGTH:
1,10
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:
MaterialQuantity
COMMENTS:

Appendix D – Data Dictionary, continued

ProductSpecification

DEFINITION:

Set of stated technical or otherwise enumerated traits of a given product such that other business partners can determine its applicability for a specific purpose.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

ProductSpecificationMethod

DEFINITION:

The parent of the code element that contains the designation of the accepted test protocol used to develop data on a product. Recognized test method agencies include the American National Standards Institute (ANSI) and the International Standards Organization (ISO)

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ProductSpecificationName

DEFINITION:

The name of the specification metric as mutually defined between partners or published by organizations such as ASTM and ISO 9002.

DATATYPE:

String

DATALENGTH:

1,48

SAMPLEDATA:

pH; viscosity; odor

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ProductSpecificationUnit

DEFINITION:

Units of measure that are used to quantify the measured data in a test method or specification.

DATATYPE:

String

DATALENGTH:

1,20

SAMPLEDATA:

pH/liter;cc/liter;pounds per sq inch

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ProductSpecificationValue

DEFINITION:

The actual value that is associated with the corresponding specification name.

DATATYPE:

String

DATALENGTH:

1,32

SAMPLEDATA:

20 Baume

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ProductSubLineItems

DEFINITION:

Children of product line items to add additional details to product line items.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ProjectedVolume

DEFINITION:

Product quantity in a specified unit of measure (separate data element) that is forecast to be ordered or required in such transactions as quotes, manufacturing, and demand planning.

DATATYPE:

Real

DATALENGTH:

1,20

SAMPLEDATA:

190 KG;50,000 LBS

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

ProposalProduct

DEFINITION:

The details of the product replenishment proposal as defined by product identification codes and package type.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ProprietaryShipmentTrackingIdentifier

DEFINITION:

Unique identification number for a shipment as issued by a carrier.

DATATYPE:

String

DATALENGTH:

1,60

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PurchaseOrderInformation

DEFINITION:

Structure containing relevant purchase order information which needs to be referenced within other documentation and/or messages.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PurchaseOrderIssuedDate

DEFINITION:

Date upon which a PurchaseOrder was created or deemed to have been issued.

DATATYPE:

Datetime

DATALENGTH:

8

SAMPLEDATA:

20001120

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

PurchaseOrderLineItemNumber

DEFINITION:

Individual line within a purchase order document containing product or item information.

DATATYPE:

Integer

DATALENGTH:

1,4

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

PurchaseOrderNumber

DEFINITION:

Unique number or identifier for a Purchase Order in a buyer system.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PurchaseOrderResponseReasonCode

DEFINITION:

Response code to a request to the supplier system.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

CODELISTNAME:

RosettaNet GlobalPurchaseOrderResponseReasonCode

CODELIST:

SYNONYMS:

COMMENTS:

PurchaseOrderStatusCode

DEFINITION:

Overall order status in the supplier system

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

CODELISTNAME:

RosettaNet GlobalPurchaseOrderStatusCode

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

PurchaseOrderTypeCode

DEFINITION:

The category of the purchase order indicating the type of handling it should receive.

DATATYPE:

String

DATALENGTH:

1,10

SAMPLEDATA:

REGULAR;BLANKET;CONTRACT

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Purpose

DEFINITION:

Code identifying purpose of the logistics or shipping message.

DATATYPE:

String

DATALENGTH:

1,20

SAMPLEDATA:

CODELISTNAME:

ANSI ASC X12 353

CODELIST:

Original;Cancellation;Replacement;Change

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

QualificationRequest

DEFINITION:

Top-level element of the QualificationRequest transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

QualificationRequestBody

DOCUMENTATION:

Transaction-specific data for the QualificationRequest transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

QualificationRequestDetails

DEFINITION:

eStandards Details Structure. It contains the remainder of the message data which was not covered under "Properties" (which is the message 'meta-data' or 'common data') and "Partners" (which is the information about the parties involved).

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

QualificationRequestPartners

DEFINITION:

eStandards Partners Structure for QualificationRequest. It contains the information about the parties involved in the data exchange.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

QualificationRequestProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

QualificationResponse

DEFINITION:

Top-level element of the QualificationResponse transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

QualificationResponseBody

DEFINITION:

eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

QualificationResponseDetails

DEFINITION:

eStandards Details Structure. It contains the remainder of the message data which was not covered under "Properties" (which is the message 'meta-data' or 'common data') and "Partners" (which is the information about the parties involved).

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

QualificationResponsePartners

DEFINITION:

eStandards Partners Structure for QualificationResponse. It contains the information about the parties involved in the data exchange.

DATATYPE:

Structure

DATALLENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

QualificationResponseProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALLENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:**

QualificationStatus

DEFINITION:

The status or response to a qualification request to another partner such as a marketplace

DATATYPE:

String

DATALLENGTH:

1,20

SAMPLEDATA:

APPROVED;IN PROGRESS

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

QualificationStatusInformation

DEFINITION:

e-Standards structure for status or response to a qualification request.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

QuoteIdentifier

DEFINITION:

Reference or unique number or code specifying a given quote.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RFQIdentifier

DEFINITION:

Unique or provided number or code to identify a RequestForQuote in the systems of partners.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

RFQProduct

DEFINITION:

The product being requested for proposal on an RFQ (RequestForQuote).

DATATYPE:

String

DATALENGTH:

1,48

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RadioactiveMaterialActivityQuantity

DEFINITION:

The measurement of activity of the radioactive material being shipped.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReceiptQuantity

DEFINITION:

Quantity of product in specified unit of measure included in the shipment that the receipt is attached to.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReceiptSummary

DEFINITION:

The actual total quantity of product received at an inventory location including date and time of receipt.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReferenceIdentifier

DEFINITION:

Number referencing the original transaction

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

AA99999

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReferenceInformation

DEFINITION:

Additional reference identification or supporting information for a transaction.

DATATYPE:

String

DATALENGTH:

1,80

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReferenceItem

DEFINITION:

Used to identify a specific line item in relation to another document

DATATYPE:

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReferenceNumber

DEFINITION:

Reference number of the transaction that allow conformations to refer to original updates

DATATYPE:

Integer

DATALENGTH:

1,20

SAMPLEDATA:

123456

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Regulations

DEFINITION:

Code or text stating regulations dealing with this item. Hash table of pairs of values where the first is the restriction and the second is the regulatory body

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

RejectReason

DEFINITION:

Assigned code by issuer to identify reason for rejection of product, transaction, or other business document.

DATATYPE:

String

DATALENGTH:

1,20

SAMPLEDATA:**CODELISTNAME:**

RejectReasonCode

CODELIST:**SYNONYMS:****COMMENTS:**

This element has an attribute with code list contained.

Public Attributes:

RejectReasonCode : NOTATION (EquipmentNotAvailable | ManpowerNotAvailable | PickupDateTimeNotPossible | HazmatBilling)

ReleaseNumber

DEFINITION:

Number identifying a release against a previously placed purchase order

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

AB12345

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ReplenishmentProposalCancel

DEFINITION:

ReplenishmentProposalCancel transaction top level structure.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

ReplenishmentProposalCancelBody

DEFINITION:

High level element containing inventory and actual usage properties, partners and details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReplenishmentProposalChange

DEFINITION:

ReplenishmentProposalChange transaction top level structure.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

ReplenishmentProposalChangeBody

DEFINITION:

The body associated with the ReplenishmentProposalChange message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReplenishmentProposalContent

DEFINITION:

The content of the replenishment proposal as defined by product, storage location, and summary.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReplenishmentProposalDetails

DEFINITION:

Mid-level element containing replenishment proposal line items including location and content details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReplenishmentProposalLineItems

DEFINITION:

The line item description of replenishment proposal including product, storage, and replenishment summary details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReplenishmentProposalLocation

DEFINITION:

The location where replenishment is proposed including partner details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReplenishmentProposalPartners

DEFINITION:

Defines the buyer and the seller between which the transaction takes place

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReplenishmentProposalProperties

DEFINITION:

Mid-level element containing replenishment proposal properties details for language and reference numbers.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReplenishmentProposalReferenceNumber

DEFINITION:

Unique identifier for reference to a replenishment proposal.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReplenishmentProposalRequest

DEFINITION:

Replenishment Proposal structure. Top level element of the Replenishment Proposal transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

ReplenishmentProposalRequestBody

DEFINITION:

High level element containing replenishment proposal properties, partners, and details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReplenishmentProposalRequestContent

DEFINITION:

The content of the replenishment proposal as defined by product, storage location, and summary.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReplenishmentProposalRequestDetails

DEFINITION:

Mid-level element containing replenishment proposal line items including location and content details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReplenishmentProposalRequestLineItems

DEFINITION:

The line item description of replenishment proposal including product, storage, and replenishment summary details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReplenishmentProposalRequestLocation

DEFINITION:

The location where replenishment is proposed including partner details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReplenishmentProposalRequestPartners

DEFINITION:

Defines the buyer and the seller between which the transaction takes place

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReplenishmentProposalRequestProduct

DEFINITION:

Defines the product(s) which are in the transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReplenishmentProposalRequestProperties

DEFINITION:

Mid-level element containing replenishment proposal properties details for language and reference numbers.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ReplenishmentProposalRequestReferenceNumber

DEFINITION:

Unique identifier for reference to a replenishment proposal.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReplenishmentProposalResponse

DEFINITION:

Replenishment Proposal Resopnse structure. Top level element of the ReplenishmentProposalResponse transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

ReplenishmentProposalResponseBody

DEFINITION:

High level element containing replenishment proposal response properties, partners, and details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ReplenishmentSummary

DEFINITION:

The actual quantity of proposed product replenishment including proposed ship and deliver dates.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestForQuote

DEFINITION:

RequestForQuote structure. Top level element of the Replenishment Proposal transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

RequestForQuoteBody

DEFINITION:

eStandard Body Structure. Contains the message-specific metadata in up-to three sections: Properties, Partners, and Details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

RequestForQuoteDetails

DEFINITION:

eStandards Details Structure. It contains the remainder of the message data which was not covered under "Properties" (which is the message 'meta-data' or 'common data') and "Partners" (which is the information about the parties involved).

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

RequestForQuotePartners

DEFINITION:

eStandards Partners Structure. It contains the information about the parties involved in the data exchange.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

RequestForQuoteProductLineItem

DEFINITION:

The set of line items with products therein included on a quote request.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

UnitOfMeasureCode : CDATA

RequestForQuoteProperties

DEFINITION:

eStandards Properties Structure. It contains the message 'meta-data' or 'common data'.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestSentDate

DEFINITION:
Date the request for payment is sent
DATATYPE:
Datetime
DATALENGTH:
8
SAMPLEDATA:
20000913
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

RequestedAgreementPeriod

DEFINITION:
The period of time desired for a transaction, contract or other defined mutual understanding to be in effect.
DATATYPE:
String
DATALENGTH:
1,60
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestedDelivery

DEFINITION:

For use by a buyer, when a product should be delivered.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

RequestedDeliveryBetweenDateTime

DEFINITION:

For a buyer, the date range when a product should be delivered.

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestedDeliveryByDateTime

DEFINITION:

For a buyer, the date by which product should be delivered.

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

RequestedDeliveryEndDateTime

DEFINITION:

For a buyer, the end of the date range within which a product should be delivered..

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestedDeliveryOnDateTime

DEFINITION:

For a buyer, the date on which product should be delivered.

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

RequestedDeliveryStartDateTime

DEFINITION:

For a buyer, the beginning of the date range when a product should be delivered.

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestedDocument

DEFINITION:
Multipurpose reference to not predefined documents.
DATATYPE:
String
DATALENGTH:
1,50
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Language : CDATA

RequestedDocumentType : CDATA

RequestedFirstOrderDate

DEFINITION:
The date upon which the first order should be placed or entered in the order system.
DATATYPE:
DateTime
DATALENGTH:
8
SAMPLEDATA:

CODELISTNAME:
ISO 8601
CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestedPackaging

DEFINITION:

Requested type and size of packaging, different from the standard or supplied package number

DATATYPE:

Integer

DATALENGTH:

1,10

SAMPLEDATA:

6 pallets when the standard would be 4 for the product quantity

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

RequestedPickupByDateTime

DEFINITION:

Last date by which product must be picked up.

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

20001201T1200

CODELISTNAME:

ISO 8601

CODELIST:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestedPickupDateTime

DEFINITION:

Date and/or time product must be picked up

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

20001201T1200

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

RequestedPickupOnDateTime

DEFINITION:

Specific date and/or time product should be picked up.

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

20001201T1200

CODELISTNAME:

ISO 8601

CODELIST:

COMMENTS:

RequestedPortOfDischarge

DEFINITION:

Name or Code of the requested port of disembarkation, usually the port of importation or Port of Entry.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestedPortOfExit

DEFINITION:

Code or name for the port of exit for a transport, usually the port of export.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

RequestedPrice

DEFINITION:

The price requested by the buyer.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestedQuoteResponse

DEFINITION:

Information on when, how and to whom the quotation needs to be delivered.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Replaces element RequestedQuoteResponseMethod.

Public Attributes:

PreferredMethod : NOTATION (Email | Fax | Telephone)

RequestedShipDateTime

DEFINITION:

The date and/or time at which the shipment is requested to take place.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequestingDocumentDateTime

DEFINITION:

The date-time stamp indicating when the requesting document was generated.

DATATYPE:

Datetime

DATALENGTH:

8

SAMPLEDATA:

20010913

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

RequestingDocumentIdentifier

DEFINITION:

Unique or supplied code or number that identifies a requesting document.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RequiredDocumentEffectiveDates

DEFINITION:

The effective dates of validity of the documents (beginning and expiration).

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

ResidueIndicator

DEFINITION:

Code indicating that the material being described is that which remains in a packaging including a tank after it has been unloaded.

DATATYPE:

Identifier

DATALENGTH:

1,1

SAMPLEDATA:

R

CODELISTNAME:

ANSI ASC X12 665

CODELIST:

R, P

SYNONYMS:**COMMENTS:**

Appendix D – Data Dictionary, continued

RespondByDateTime

DEFINITION:

Date and Time a response is required. CCYYMMDDTHHMM. The "T" character is the separator between the date and time.

DATATYPE:

DateTime

DATALENGTH:

8

SAMPLEDATA:

20010913

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

RespondersPostingNumber

DEFINITION:

A code used by the responder to identify the same posting.

DATATYPE:

String

DATALENGTH:

1,256

SAMPLEDATA:

ABC-017933-2

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

The code that will be used to track a posting after it is created is subject to the trading partner agreements that exist between two marketplaces. Expect that it would be omitted if response is related to PostingChange transaction.

Appendix D – Data Dictionary, continued

RestrictedOrderFlag

DEFINITION:

Flag stating work process needs to be manually verified

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y/N

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Restrictions

DEFINITION:

Freeform test description of what restrictions are tied to being able to buy this item or product.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Not to be shipped to Libya

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

RevisionNumber

DEFINITION:

Provides for sequential numbering of messages

DATATYPE:

Integer

DATALENGTH:

1,4

SAMPLEDATA:

03

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

RoundingFactor

DEFINITION:

Increment used to adjust order either lesser or greater to fit with standard quantity size, for example, if a customer orders 720 Kilo of a product and bag size is 25 Kilo, order will be rounded to 725 Kilo.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Routing

DEFINITION:

The shipping route to be provided for transportation of product.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:**

RoutingInstructions

DEFINITION:

Specification of carrier(s), routing legs, routing sequences, and other information for a given shipment.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

SalesOrderIdentifier

DEFINITION:

Unique or provided number or code to identify a sales order in the systems of partners.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

SalesOrderItem

DEFINITION:
Individual product on a sales order.
DATATYPE:
String
DATALENGTH:
1,48
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ScaleDate

DEFINITION:
Date and/or time that the equipment was weighed.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Scales

DEFINITION:

Structure containing the identification of the scales and/or partner data where the equipment and/or shipment is weighed.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:**

ScaleType

CODELIST:**SYNONYMS:****COMMENTS:**

The attribute contains the code list. ScaleType is the attribute.

Public Attributes:

ScaleType : NOTATION (Private | Rail | NonCarrier)

ScheduledPackDateTime

DEFINITION:

The date and/or time at which the lading must be packaged for shipment.

DATATYPE:

Datetime

DATALENGTH:

8,16

SAMPLEDATA:

20010913

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ScheduledShipDateTime

DEFINITION:

The date and/or time at which the shipment is scheduled to be shipped.

DATATYPE:

Datetime

DATALENGTH:

8,16

SAMPLEDATA:

20010913

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

SealNumber

DEFINITION:

Unique number on seal such as that used to close a shipment.

DATATYPE:

String

DATALENGTH:

2,15

SAMPLEDATA:

ABC123456

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

SecondCurrency

DEFINITION:

The monetary currency code that is to be used in case the primary currency code is not.

DATATYPE:

String

DATALENGTH:

1,3

SAMPLEDATA:

UDS

CODELISTNAME:

ISO 4217

CODELIST:**SYNONYMS:****COMMENTS:**

SecondWeightFlag

DEFINITION:

Indicator specifying that the invoice value is based on the quantity recieved as measured by the customer. This may be different from the shipped quantity and must be mutually agreed up on by buyer and seller.

Default is "N"

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y/N

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

Seller

DEFINITION:
Selling party or entity for goods or service.

DATATYPE:

Structure

DATALength:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

SellerAccountDetails

DEFINITION:
Account information of a seller at a bank, financial institution, or other business.

DATATYPE:

Structure

DATALength:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

SellerFinancialInstitution

DEFINITION:

Financial Institution of the Seller/Payee generally identified by D-U-N-S Number.

DATATYPE:

String

DATALENGTH:

1,13

SAMPLEDATA:

0000111229993

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

SellerFinancialInstitutionDFINumber

DEFINITION:

Routing Number of Seller/Payee Bank

DATATYPE:

String

DATALENGTH:

1,12

SAMPLEDATA:

021000021

CODELISTNAME:

CODELIST:

COMMENTS:

Thompson Bank Directory/ABA, Canadian Payments Assn Directory, ISO/S.W.I.F.T. Bank Identifier Code Directory

Appendix D – Data Dictionary, continued

SellerIdentifier

DEFINITION:

Unique code or number for a seller role usually identified by D-U-N-S Number.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

SellerProductIdentification

DEFINITION:

Unique identifying information for product(s) in a seller's systems.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

SellerProductIdentifier

DEFINITION:

Identifying information for product(s) in the seller's system(s).

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

SellerProductInformation

DEFINITION:

Set of data that enables a full and complete identification of product(s) in the seller's systems of record.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

SellersCurrency

DEFINITION:

The currency code of the seller, which is usually the primary currency for that business entity.

DATATYPE:

String

DATALENGTH:

1,3

SAMPLEDATA:

USD

CODELISTNAME:

ISO 4217

CODELIST:**SYNONYMS:****COMMENTS:**

SellersInvoiceNumber

DEFINITION:

Identifying and generally unique number assigned by seller in a transaction.

DATATYPE:

String

DATALENGTH:

1,22

SAMPLEDATA:

AB12345

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ShelfLife

DEFINITION:
Period of time that properties will not change resulting in - in days
DATATYPE:
Integer
DATALENGTH:
1,5
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShipDate

DEFINITION:
Date upon which product(s) were shipped
DATATYPE:
Datetime
DATALENGTH:
8
SAMPLEDATA:
20010913
CODELISTNAME:
ISO 8601
CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShipFrom

DEFINITION:
The location from which the product will be shipped.
DATATYPE:
String
DATALENGTH:
1,60
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShipNotice

DEFINITION:
The message can be used to list the contents of a shipment of goods as well as additional information relating to a shipment.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

Appendix D – Data Dictionary, continued

ShipNoticeBody

DEFINITION:

Structure containing the body related to the ShipNotice message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShipNoticeDetails

DEFINITION:

Structure containing the details related to the ShipNotice message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShipNoticeEquipmentDetails

DEFINITION:

Structure containing the equipment details related to the ShipNotice message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShipNoticePartners

DEFINITION:

Structure containing the partners related to the ShipNotice message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShipNoticeProperties

DEFINITION:

Structure containing the properties related to the ShipNotice message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShipTo

DEFINITION:

Destination party the order will be shipped to

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShipWithPurchaseOrder

DEFINITION:

Indicator that a shipment of product should include the purchase order document or a copy thereof.

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y;N

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShipmentDateReference

DEFINITION:

Reference data supplied for a shipment for tracing, followup, or other related tracing or research purposes.

DATATYPE:

Datetime

DATALENGTH:

8

SAMPLEDATA:

20010913

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShipmentIdentification

DEFINITION:

Unique number or code to identify a shipment

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

A6-1937;4528276

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShipmentIndicator

DEFINITION:

Code defining the disposition of any difference between the quantity ordered and shipped for a line item.

DATATYPE:

String

DATALENGTH:

2

SAMPLEDATA:

CP

CODELISTNAME:

UN/EDIFACT 4221

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShipmentMethodofPayment

DEFINITION:

Payment terms for transportation charges.

DATATYPE:

String

DATALENGTH:

2

SAMPLEDATA:

PP

CODELISTNAME:

ANSI ASC X12 146

CODELIST:

SYNONYMS:

COMMENTS:

ShipmentPackaging

DEFINITION:

Structure containing details of the lading packaging.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Lading packaging may differ from product packaging.

Appendix D – Data Dictionary, continued

ShipmentQualifier

DEFINITION:

The type of shipment reflected in the Rail Bill of Lading

DATATYPE:

String

DATALENGTH:

2

SAMPLEDATA:**CODELISTNAME:**

ASC X12 147

CODELIST:**SYNONYMS:****COMMENTS:**

This has an attribute pointing over to codes contained in ASC X12 147.

Public Attributes:

ShipmentTypeCode : NOTATION (MasterBillForEmptyNonRevenue | FirstBillSplitShipment | SubordinateBillSplitShipment | MasterBillRevenueEmpty | IndividualShipment | ConsolidatedShipment | EmptyNonRevenue | StopOffShipment | SwitchWaybill | MasterBill | SubMasterBill | EmptySwitchBill)

ShipmentQualifier_grp1

ShipmentReleaseDate

DEFINITION:

The date on which shipper has released the equipment with the product to the carrier.

DATATYPE:

DateTime

DATALENGTH:

8

SAMPLEDATA:

20000823

CODELISTNAME:

ISO 8601

CODELIST:**SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ShipmentStatus

DEFINITION:

This message can be used by a transportation carrier, marketplace or application service provider to provide shippers, consignees, and their agents with a status of shipments in terms of dates, times, locations, route, identifying numbers, and conveyance.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

ShipmentStatusBody

DEFINITION:

Structure containing the body related to the ShipmentStatus message.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ShipmentStatusCode

DEFINITION:

Code specifying the status or progress of shipments.

DATATYPE:

String

DATALENGTH:

1,20

SAMPLEDATA:

Arrive

CODELISTNAME:

UN/EDIFACT 4405 - United Nations Recommendation #24

CODELIST:

SYNONYMS:

COMMENTS:

ShipmentStatusDateTime

DEFINITION:

Date and time of the ShipmentStatus message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShipmentStatusDetails

DEFINITION:

The period of time desired for a transaction, contract or other defined mutual understanding to be in effect.

DATATYPE:

String

DATALENGTH:

1,60

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShipmentStatusPartners

DEFINITION:

Structure containing the partners related to the ShipmentStatus message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShipmentStatusProperties

DEFINITION:

Structure containing the properties related to the ShipmentStatus message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShipmentStatusReasonCode

DEFINITION:

Code specifying the reason for a status of a shipment.

DATATYPE:

String

DATALENGTH:

1,20

SAMPLEDATA:

CODELISTNAME:

UN Recommendation 24

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShipmentTerms

DEFINITION:

The combination of the ShipmentTermsCode and ShipmentTermsLocation.

DATATYPE:

String

DATALENGTH:

1,80

SAMPLEDATA:

CIF Rotterdam

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

ShipmentTermsCode

DEFINITION:

Terms under which a product is shipped. For international orders this would be INCO terms. For domestic orders this would be Freight Prepaid, FOB or similar.

DATATYPE:

String

DATALENGTH:

1,20

SAMPLEDATA:**CODELISTNAME:**

INCO, Freight Prepaid, FOB

CODELIST:**SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ShipmentTermsLocation

DEFINITION:
The location from which a shipment term is valid.
DATATYPE:
String
DATALENGTH:
1,60
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShippedQuantity

DEFINITION:
Scheduled or actual shipped product specified in a given unit of measure.
DATATYPE:
Real
DATALENGTH:
1,15
SAMPLEDATA:
480KG;1690LBS
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Shipping

DEFINITION:
Shipping costs and charges total.
DATATYPE:
Real
DATALENGTH:
1,15
SAMPLEDATA:
100.00, 99.95
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShippingAvailability

DEFINITION:
For use by a supplier, when the product will be available for shipment.
DATATYPE:
Structure
DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShippingAvailabilityAfterDateTime

DEFINITION:

For a supplier, the date after which material is available to be shipped.

DATATYPE:

DateTime

DATALLENGTH:

8,16

SAMPLEDATA:**CODELISTNAME:**

ISO 8601

CODELIST:**SYNONYMS:****COMMENTS:**

ShippingAvailabilityBetweenDateTime

DEFINITION:

For a supplier, the date range when a product will be available for shipment.

DATATYPE:

Structure

DATALLENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

ShippingAvailabilityEndDateTime

DEFINITION:

For a supplier, the end of the date range when a product will be available for shipment.

DATATYPE:

DateTime

DATALLENGTH:

8,16

SAMPLEDATA:**CODELISTNAME:**

ISO 8601

CODELIST:**SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

ShippingAvailabilityOnDateTime

DEFINITION:

For a supplier, the specific date on which material is available to be shipped.

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

ShippingAvailabilityStartDateTime

DEFINITION:

For a supplier, the beginning of the date range when a material will be available for shipment.

DATATYPE:

DateTime

DATALENGTH:

8,16

SAMPLEDATA:

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShippingInformation

DEFINITION:

Data structure containing all data related to a shipment.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

LocationPointType : CDATA

ShippingLabelNumber

DEFINITION:

The identification number identifying a specific package

DATATYPE:

String

DATALENGTH:

1,55

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ShippingLeadTime

DEFINITION:

Number of days required or estimated for shipping functions to prepare and deliver the product.

DATATYPE:

Number

DATALENGTH:

1,3

SAMPLEDATA:

17

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ShippingServiceLevelCode

DEFINITION:

Code identifying service level agreement

DATATYPE:

String

DATALENGTH:

1,10

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

SoldTo

DEFINITION:

Party to whom products are sold.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

SpecialCommodityIndicator

DEFINITION:

Indication of a special commodity notation on operational waybill as identified by the Transportation of Dangerous Goods Act and Regulation (TDG)

DATATYPE:

String

DATALENGTH:

1

SAMPLEDATA:

S

CODELISTNAME:

ANSI ASC X12 986

CODELIST:**COMMENTS:**

This has an attribute of a Special Commodity Indicator Code.

Public Attributes:

SpecialCommodityIndicatorCode : ID

Appendix D – Data Dictionary, continued

SpecialFulfillmentRequestCode

DEFINITION:

A variety of conditional requirements, particularly related to shipment, for example "no substitutions", "restricted to US and Canadian sources", "fill or kill", "equal product allowed".

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

NoSubstitutions

CODELISTNAME:

CODELIST:

RosettaNetGlobalSpecialFulfillmentRequestCode

SYNONYMS:

COMMENTS:

SpecialHandlingAmount

DEFINITION:

Amount charged for special handling and accessorial charges related to their transport

DATATYPE:

Real

DATALENGTH:

1,255

SAMPLEDATA:

25.21, 123.64

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

SpecialServiceCodes : CDATA

Appendix D – Data Dictionary, continued

SpecialInstructions

DEFINITION:
Free-form textual description of requirements
DATATYPE:
String
DATALENGTH:
1,255
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

InstructionType : NOTATION (ShipperInstructions | CarrierInstructions | ConsigneeInstructions | DriverInstructions | Tolerances | RoutingInstructions | EmptyReturnInstructions | ShortLeadTime | InspectionInstructions)

SpecialInvoicePreference

DEFINITION:
Non standard billing options or requirements as requested by the buyer.
DATATYPE:
String
DATALENGTH:
1,255
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

SpecialPostingInstructions

DEFINITION:

Free-form textual description of requirements and non-standard instructions for a posting.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

SpecialServices

DEFINITION:

Amount charged for special requests from Buyer

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

25.21, 123.64

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

SpecifiedDateTime

DEFINITION:

The exact date and time specified by one of the partners in a message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

StandardCarrierAlphaCode

DEFINITION:

The exact date and time specified by one of the partners in a message.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

StandardIndustrialClassificationNumber

DEFINITION:

Number issued to indicate the type of industry a given partner is in based upon products produced.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

StandardOrderQuantity

DEFINITION:

The specified count or weight of a given product that may be sold at favorable price and marketed as a standard offering by the seller.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

StateProvince

DEFINITION:

Name of the municipality or town as a location for mailing, siting and other geographic functions.

DATATYPE:

String

DATALENGTH:

1,50

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

StatusCode

DEFINITION:

A code that indicates a condition or status.

DATATYPE:

String

DATALENGTH:

1,50

SAMPLEDATA:

ACCEPTED

CODELISTNAME:

Custom

CODELIST:

activeacceptedrejecteddeletedcancelledlocked

SYNONYMS:

COMMENTS:

the line-item status values are illustrative; other values could be used depending on the trading partner agreements established between trading partners.

Appendix D – Data Dictionary, continued

StatusDetails

DEFINITION:

Defines the status and location of a shipment.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

StatusEffectiveDate

DEFINITION:

The point in time that the status code takes effect. Represented in ISO format with a Z qualifier representing UTC.

DATATYPE:

DateTime

DATALENGTH:

8

SAMPLEDATA:**CODELISTNAME:**

ISO 8601

CODELIST:**SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

StatusInformation

DEFINITION:

Contains the information that represents a status. This includes a code, a date, and a text description. It is assumed that the status is valid from the effective date until a new status is reported.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

There is an existing Status Information structure that could be used for this. It would have to be expanded to include a date time and the semantics describing how to interpret it would have to be included.

StatusReason

DEFINITION:

Textual information to clarify a given status code.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

StorageTankIdentifier

DEFINITION:

The actual storage tank/silo/vessel identifier.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Tank 1

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

SubLineItemNumber

DEFINITION:

The sub-line item number relating to the primary line item referenced in the message.

DATATYPE:

Integer

DATALENGTH:

1,2

SAMPLEDATA:

1

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

SubUnitCount

DEFINITION:
Count on subunits of equipment for logistics transactions.
DATATYPE:
Integer
DATALENGTH:
1,5
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

SubsidiaryRiskIndicator

DEFINITION:
Code Identifying the type of secondary or consequential risk to handling a given product.
DATATYPE:
String
DATALENGTH:
1,2
SAMPLEDATA:
I
CODELISTNAME:
ANSI ASC X12 271
CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

SubsidiaryRiskIndicatorCode : CDATA

Appendix D – Data Dictionary, continued

SupplyPlan

DEFINITION:

SupplyPlan structure. Top level element of the Supply Plan transaction.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Public Attributes:

Version : CDATA = 2.0

SupplyPlanBody

DEFINITION:

High level element containing supply plan properties, partners, and details.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

SupplyPlanDetails

DEFINITION:

Mid-level element containing supply plan line items including product, time horizon, and plan details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

SupplyPlanLineItems

DEFINITION:

The line item description of product supply including product, time horizon, and plan details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

SupplyPlanPartners

DEFINITION:

Defines the buyer and the seller between which the transaction takes place

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

SupplyPlanProperties

DEFINITION:

Mid-level element containing supply plan properties details for language and reference numbers.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

SupplyPlanResponse

DEFINITION:

Supply Plan Response structure. Top level element of the SupplyPlanResponse transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

Version : CDATA = 2.0

SupplyPlanResponseBody

DEFINITION:

High level element containing supply plan confirmation properties, partners, and details.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

TareWeight

DEFINITION:
Weight of the equipment unit in unladen state.
DATATYPE:
Integer
DATALENGTH:
1, 13
SAMPLEDATA:
35000
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

TareWeightQualifierCode : NOTATION (Actual | Marked)

TariffIdentification

DEFINITION:
The tariff governing the rate applied to the shipment.
DATATYPE:
String
DATALENGTH:
1,55
SAMPLEDATA:
447
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

TariffAuthority : CDATA

Appendix D – Data Dictionary, continued

Tax

DEFINITION:
The monetary amount of tax in total charged on a transaction.
DATATYPE:
Real
DATALENGTH:
1,15
SAMPLEDATA:
476.90
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

TaxBasis

DEFINITION:

DATATYPE:

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

TaxCertificateNumber

DEFINITION:

The identifying number for a tax certificate such as tax exemption, sales and use tax certificate or other such document.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

52-1034157

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

TaxCertificateType

DEFINITION:

The category of tax certificate for which an identifying number is issued.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

EXEMPT;SALES&USETAX;VAT

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

TaxIdentifierNumber

DEFINITION:

Unique number or code issued to an organization by a governmental or regulatory body identifying that entity for tax purposes.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:**CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

For example, a VAT

Public Attributes:

TaxType : CDATA

TaxInformation

DEFINITION:

Structure for containing all data concerning tax data.

DATATYPE:

Structure

DATALENGTH:**SAMPLEDATA:****CODELISTNAME:****CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

TaxLocation

DEFINITION:

The physical or deemed location at which tax is calculated based upon jurisdiction by a governmental or regulatory body.

DATATYPE:

String

DATALENGTH:

1,60

SAMPLEDATA:

Venlo,Bristol

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

TaxRate

DEFINITION:

The percentage or monetary amount charged on a transaction.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

TaxType

DEFINITION:

The category of tax being levied or paid for a transaction or other economic event.

DATATYPE:

String

DATALENGTH:

1,60

SAMPLEDATA:

Sales;Real Estate;Inventory

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Taxable

DEFINITION:

Indicator as to whether a transaction or sale is taxable.

DATATYPE:

Boolean

DATALENGTH:

1

SAMPLEDATA:

Y;N

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

TaxableFlag

DEFINITION:
Indicator as to whether a transaction or sale is taxable.
DATATYPE:
Boolean
DATALENGTH:
1
SAMPLEDATA:
Y;N
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

TechnicalSpecificationsURL

DEFINITION:
URL for tech spec/data sheets
DATATYPE:
String
DATALENGTH:
1,255
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

TelecomAreaCode

DEFINITION:

The area code within a country or jurisdiction, if needed, to access local telephones within the country.

DATATYPE:

Integer

DATALENGTH:

1,10

SAMPLEDATA:

302;52

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

TelecomCountryCode

DEFINITION:

The dialing code from another country to access the telephone network in another country.

DATATYPE:

Integer

DATALENGTH:

1,10

SAMPLEDATA:

52;44

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

TelephoneNumber

DEFINITION:

The numerical dialing schema designed to achieve contact via telephone after getting to the proper local network.

DATATYPE:

Integer

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

TermsOfSale

DEFINITION:

Conditions under which a sale is transacted including product specifications, delivery and payment in addition to other agreed upon factors.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Net 30, LumpSum

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ThirdParty

DEFINITION:

Structure which holds information relating to partner who influences the price negotiated between buyer and seller or otherwise participates in a transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

ThisDocumentDateTime

DEFINITION:

The date-time stamp indicated on a document

DATATYPE:

DateTime

DATALENGTH:

SAMPLEDATA:

20001107T1300

CODELISTNAME:

ISO 8601

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ThisDocumentIdentifier

DEFINITION:

Unique identification number that for a business document.

DATATYPE:

String

DATALENGTH:

1,30

SAMPLEDATA:

AB-37644

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

To

DEFINITION:

Structure for receiving party for a transaction.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

ToDateTime

DEFINITION:

End values of date/time information

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

Date format of 8601 is YYYY-MM-DD or YYYYMMDD Time format of 8601 is HH:MM:SSZ or HHMMSSZ (where Z indicates time is GMT)-or- Time format of 8601 is HH:MM:SS (not in GMT), but using attribute for time zone

CODELISTNAME:

ISO 8601

CODELIST:**SYNONYMS:****COMMENTS:**

Public Attributes:

TimeZone : CDATA

TotalAmountPaid

DEFINITION:

Total Monetary amount paid from invoice(s)

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

30303030.90

CODELISTNAME:**CODELIST:****SYNONYMS:****COMMENTS:**

Appendix D – Data Dictionary, continued

TotalLineItems

DEFINITION:
Total number of line items on invoice
DATATYPE:
Integer
DATALENGTH:
1,10
SAMPLEDATA:
10, 23
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

TotalPaymentAmount

DEFINITION:
Monetary Amount of Payment
DATATYPE:
Real
DATALENGTH:
1,18
SAMPLEDATA:
235.98
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

TransportInBond

DEFINITION:
Indicates the Customs bonding status of the goods
DATATYPE:
String
DATALENGTH:
1,25
SAMPLE DATA:
In-bond, Shipper's bond, Carrier Bond

Appendix D – Data Dictionary, continued

TransportInformation

DEFINITION:

Collection of business properties defining how product is transported

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

StageIdentifier : NOTATION (Primary | Secondary | Main | Final)

TransportMethodCode

DEFINITION:

Mode of transportation used to move product

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

Sea, Air, Rail, Road

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

TransportMode

DEFINITION:

Means by which product is transported, i.e. rail, truck, barge, air.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

R (Rail)

CODELISTNAME:

ANSI ASC X12 91

CODELIST:

SYNONYMS:

TransportationMethod

COMMENTS:

Codelist to be used.

TransportName

DEFINITION:

Identifier of specific vessel, truck, railcar, etc.

DATATYPE:

String

DATALENGTH:

1,50

SAMPLEDATA:

MS Houston

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

TransportEquipmentType : CDATA

Appendix D – Data Dictionary, continued

TransportTemperature

DEFINITION:

Temperature at which lading must be maintained during transport

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

TransportationMethod

DEFINITION:

Method of transportation used for the shipment

DATATYPE:

String

DATALENGTH:

1,2

SAMPLEDATA:

CODELISTNAME:

ANSI ASC X12 91

CODELIST:

SYNONYMS:

TransportMode

COMMENTS:

Appendix D – Data Dictionary, continued

TransportationMethodCode

DEFINITION:
Method of transportation for the shipment
DATATYPE:
String
DATALENGTH:
1
SAMPLE DATA:
S, R, J, M
CODELISTNAME:
ANSI ASC X12 91
CODELIST:

SYNONYMS:

COMMENTS:

URL

DEFINITION:
Uniform Resource Locator indicating the address on the internet.
DATATYPE:
String
DATALENGTH:
1,35
SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

USDomesticShippingName

DEFINITION:

The Hazardous Material shipping name as defined to comply with US Code of Federal Regulations, Title 49.

DATATYPE:

String

DATALENGTH:

1,255

SAMPLEDATA:

Toxic Solids, self heating n.o.s.

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

USGoodsReturned

DEFINITION:

Indicates that material has been exported from the United States and is exempt from further import duties.

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

US Returned Goods

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

UnitOfMeasure

DEFINITION:

A code identifying the units in which measurement is expressed.

DATATYPE:

String

DATALENGTH:

2

SAMPLEDATA:

LB;KG

CODELISTNAME:

ISO 31

CODELIST:

SYNONYMS:

COMMENTS:

UnitOfMeasureCode

DEFINITION:

A code identifying the units in which measurement is expressed.

DATATYPE:

String

DATALENGTH:

2

SAMPLEDATA:

LB;KG

CODELISTNAME:

ISO 31

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

UnitPrice

DEFINITION:

The unit price of the product being sold. Uses two attributes: Currency andGlobalUnitofMeasureCode.

DATATYPE:

Real

DATALENGTH:

1,10

SAMPLEDATA:

1.21

CODELISTNAME:**CODELIST:****SYNONYMS:**

Price

COMMENTS:

Named this element "UnitPrice" so that it would be explicitly understood.Makes sense to put the currency and unit of measure in as attributes.

Public Attributes:

GlobalMaterialUnitOfMeasureCode : CDATA

UnitedNationsNorthAmericaldentifier

DEFINITION:

Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America.

DATATYPE:

String

DATALENGTH:

6

SAMPLEDATA:

UN3082

CODELISTNAME:

ASC X12 277

CODELIST:**COMMENTS:**

Appendix D – Data Dictionary, continued

UpperLimit

DESCRIPTION:

The highest amount of product that will be accepted at delivery.

DATATYPE:

Real

DATALENGTH:

1,15

SAMPLEDATA:

46,000 lbs

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Usage

DEFINITION:

The actual quantity of product inventory consumed at an inventory location.

DATATYPE:

Real

DATALENGTH:

1,10

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

VoyageTripDate

DEFINITION:

The date of the voyage, sailing or trip related to the transportation of the lading.

DATATYPE:

Structure

DATALENGTH:

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

VoyageTripNumber

DEFINITION:

The identification number of the voyage or trip, (ie. Train ID, etc.)

DATATYPE:

String

DATALENGTH:

1,25

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

WasteCharacteristicsCode

DEFINITION:

Waste Characteristics as defined by the US Environmental Protection Agency regulatory requirements.

DATATYPE:

String

DATALENGTH:

12,16

SAMPLEDATA:

EPA CORROSIVITY

CODELISTNAME:

ANSI ASC X12 807

CODELIST:

SYNONYMS:

COMMENTS:

WaybillNumber

DEFINITION:

The number of the waybill assigned by the carrier.

DATATYPE:

String

DATALENGTH:

1,15

SAMPLEDATA:

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Appendix D – Data Dictionary, continued

Weight

DEFINITION:
Weight of the equipment unit.
DATATYPE:
Integer
DATALENGTH:
1, 13
SAMPLEDATA:
35000
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

WeightQualifier : NOTATION (ShipperWeight | GrossWeight | LightWeight | ActualNetWeight)

WeightAllowance

DEFINITION:
Weight allowance variation for the equipment unit.
DATATYPE:
Integer
DATALENGTH:
1, 13
SAMPLEDATA:
35000
CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Public Attributes:

WeightAllowanceType : NOTATION (Dunnage | Fuel | Ice | Snow | Water | Cab | Driver)

Appendix D – Data Dictionary, continued

Width

DEFINITION:

The shortest horizontal dimension of an object

DATATYPE:

Real

DATALENGTH:

1,17

SAMPLEDATA:

12

CODELISTNAME:

CODELIST:

SYNONYMS:

COMMENTS:

Document Type Definitions (DTDs)

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Appendix E – Document Type Definitions (DTDs)

The DTDs for all the transactions in each section are provided below. For on-line users of the document, hyperlinks to the section DTDs are provided in the following table:

Customer	Financials
Catalog and RFQ	Forecasting
Purchase Order	Exchange Interactions
Logistics	

Customer

Qualification Request

```

<!ELEMENT QualificationRequest (Header,QualificationRequestBody) >
<!ATTLIST QualificationRequest
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT QualificationRequestBody (QualificationRequestProperties,
    QualificationRequestPartners,QualificationRequestDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT QualificationRequestProperties (LanguageCode,CurrencyCode,
    MarketPlaceInformation?) >
<!ELEMENT QualificationRequestPartners
    (Buyer,SoldTo?,Seller,ShipTo*,BillTo?,Payer?) >
<!ELEMENT QualificationRequestDetails (BuyerReference*,PaymentTerms?,
    PaymentMethodCode?,InvoicePreference?,FinalDestinationCountryCode*,
    SICNumber?,NAICSNumber?,AccountInformation?) >

```

Qualification Request, continued

```

<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT LanguageCode (Code) >
<!ELEMENT CurrencyCode (Code) >
<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT SoldTo (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT ShipTo (PartnerInformation) >
<!ELEMENT BillTo (PartnerInformation) >
<!ELEMENT Payer (PartnerInformation,AccountInformation) >
<!ELEMENT BuyerReference (DocumentReference) >
<!ELEMENT PaymentTerms (TermsOfSale,PaymentTermsBasisDateCode?,
    PaymentTermsBasisDate?,Discounts?,Deferred?,Penalty?) >
<!ELEMENT PaymentMethodCode (Code) >
<!ELEMENT InvoicePreference (InvoiceMode,BillingScheduleCode) >
<!ELEMENT FinalDestinationCountryCode (Code) >
<!ELEMENT SICNumber (#PCDATA) >
<!ELEMENT NAICSNumber (#PCDATA) >
<!ELEMENT AccountInformation (AccountHolderName+,((AccountNumber?,
    FinancialInstitution?,FinancialInstitutionDFINumber?) | (
    CreditCardNumber?,CreditCardType?,CreditCardExpirationDate?))) >
<!ELEMENT PartnerName (#PCDATA) >

```

Qualification Request, continued

```

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

```

Qualification Request, continued

```

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT TermsOfSale (#PCDATA) >

<!ELEMENT PaymentTermsBasisDateCode (Code) >

<!ELEMENT PaymentTermsBasisDate (DateTime) >

<!ELEMENT Discounts (PercentDiscount,DiscountAmount,(DaysDue | DiscountsDueDate)+)
>

<!ELEMENT Deferred (DeferredAmount,DeferredDueDate,PercentDeferredPayable) >

<!ELEMENT Penalty (#PCDATA) >

<!ELEMENT InvoiceMode (#PCDATA) >

<!ATTLIST InvoiceMode
    CommunicationMode NOTATION (Fax | Mail | EDI | eMail | IPaddress)
    #REQUIRED >

<!ELEMENT BillingScheduleCode (Code) >

<!ELEMENT AccountHolderName (#PCDATA) >

<!ELEMENT AccountNumber (#PCDATA) >

<!ELEMENT FinancialInstitution (#PCDATA) >

<!ELEMENT FinancialInstitutionDFINumber (#PCDATA) >

<!ELEMENT CreditCardNumber (#PCDATA) >

<!ELEMENT CreditCardType (#PCDATA) >

<!ELEMENT CreditCardExpirationDate (DateTime) >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

```

Qualification Request, continued

```

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT PercentDiscount (#PCDATA) >

<!ELEMENT DiscountAmount (#PCDATA) >

<!ELEMENT DaysDue (#PCDATA) >

<!ELEMENT DiscountsDueDate (DateTime) >

```

Qualification Request, continued

```
<!ELEMENT DeferredAmount (#PCDATA) >
<!ELEMENT DeferredDueDate (DateTime) >
<!ELEMENT PercentDeferredPayable (#PCDATA) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
```

Qualification Response

```

<!ELEMENT QualificationResponse (Header,QualificationResponseBody) >
<!ATTLIST QualificationResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```


Qualification Response, continued

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Qualification Response, *continued*

```
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT QualificationResponseBody (QualificationResponseProperties,
    QualificationResponsePartners,QualificationResponseDetails) >
<!ELEMENT QualificationResponseProperties (LanguageCode,MarketPlaceInformation?) >
<!ELEMENT LanguageCode (Code) >
<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >
<!ELEMENT MarketPlaceIdentifier (#PCDATA) >
<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >
```

Qualification Response, continued

```

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT QualificationResponsePartners (Buyer,Seller,SoldTo?) >

<!ELEMENT Buyer (PartnerInformation) >

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT SoldTo (PartnerInformation) >

<!ELEMENT QualificationResponseDetails (CountryOfFinalDestination*,
    QualificationStatusInformation) >

<!ELEMENT CountryOfFinalDestination (Code) >

<!ELEMENT QualificationStatusInformation (QualificationStatus,Description*) >

<!ELEMENT QualificationStatus (#PCDATA) >

<!ELEMENT Description (#PCDATA) >

```

Catalog and RFQ

Product Catalog Update

```

<!ELEMENT ProductCatalogUpdate (Header,ProductCatalogUpdateBody) >

<!ATTLIST ProductCatalogUpdate
    Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

```

Product Catalog Update, *continued*

```

<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT TelecomAreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >
<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >

```

Product Catalog Update, *continued*

```

<!ATTLIST TaxIdentifierNumber
          TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DatetimeRange) >

<!ELEMENT DatetimeRange (FromDateTime?,SpecifiedDateTime?,ToDateTime?) >

<!ELEMENT FromDateTime (#PCDATA) >

<!ATTLIST FromDateTime
          TimeZone CDATA #IMPLIED >

<!ELEMENT SpecifiedDateTime (#PCDATA) >

<!ELEMENT ToDateTime (#PCDATA) >

<!ATTLIST ToDateTime
          TimeZone CDATA #IMPLIED >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT ProductCatalogUpdateBody (ProductCatalogUpdateProperties,
          ProductCatalogUpdatePartners,ProductCatalogUpdateDetails) >

<!ELEMENT ProductCatalogUpdateProperties (CurrencyCode,LanguageCode,
          CatalogIdentifier?) >

<!ELEMENT CurrencyCode (Code) >

<!ELEMENT LanguageCode (Code) >

<!ELEMENT CatalogIdentifier (#PCDATA) >

<!ELEMENT ProductCatalogUpdatePartners (Seller) >

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT ProductCatalogUpdateDetails (ProductCatalogUpdateProductLineItem+) >

```

Product Catalog Update, *continued*

```

<!ELEMENT ProductCatalogUpdateProductLineItem (LineItemNumber,ProductInformation,
    CatalogEffectiveDates,FullDescription+,Keywords?,ProductFamilyName?,
    OrderLeadTime?,ProductCatalogPriceData*,MinimumOrderQuantity?,
    ApproximateWeight?,SpecialInstructions*,NotAvailableInCountryCode*,
    ShelfLife?,TechnicalSpecificationsURL?,MSDS?,RestrictedOrderFlag?,
    Restrictions*,HandlingCertificationRequiredCode*,Regulations*,
    RoundingFactor?,LimitDisplayFlag) >

<!ATTLIST ProductCatalogUpdateProductLineItem
    Action CDATA #REQUIRED >

<!ELEMENT LineItemNumber (#PCDATA) >

<!ELEMENT ProductInformation (ProductIdentification,ProductSpecification*,
    ProductClassificationCode*,PackagingInformation?,CountryOfOriginCode?,
    MarketingName*,ManufacturerInformation?,ProductInformation*) >

<!ELEMENT ProductIdentification (ProductIdentifier+,ProductDescription?,
    ProductGradeDescription?) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT ProductSpecification
    (ProductSpecificationName,ProductSpecificationValue,
    ProductSpecificationUnit,ProductSpecificationMethod) >

<!ELEMENT ProductSpecificationName (#PCDATA) >

<!ELEMENT ProductSpecificationValue (#PCDATA) >

<!ELEMENT ProductSpecificationUnit (#PCDATA) >

<!ELEMENT ProductSpecificationMethod (Code) >

<!ELEMENT ProductClassificationCode (Code) >

<!ELEMENT PackagingInformation (ProductIdentification?,PackagingQuantity?,
    PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
    PackagingInformation*) >

<!ELEMENT PackagingQuantity (#PCDATA) >

```

Product Catalog Update, *continued*

```

<!ELEMENT PackagingType (#PCDATA) >

<!ELEMENT PackagingWeight (Measurement) >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT PackagingLabel (#PCDATA) >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
|
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT CountryOfOriginCode (Code) >

<!ELEMENT MarketingName (#PCDATA) >

<!ATTLIST MarketingName
    Registration NOTATION (RegisteredTradeMark | RegisteredTradeName)
    #REQUIRED >

<!ELEMENT ManufacturerInformation (PartnerName,PartnerInformation?,
    ProductIdentification?) >

<!ELEMENT CatalogEffectiveDates (DatetimeRange) >

<!ELEMENT FullDescription (#PCDATA) >

<!ELEMENT Keywords (Keyword+) >

<!ELEMENT Keyword (#PCDATA) >

<!ELEMENT ProductFamilyName (#PCDATA) >

<!ELEMENT OrderLeadTime (Duration) >

<!ELEMENT Duration (#PCDATA) >

<!ATTLIST Duration
    TimeUnit (Hour | Day | Week | Month | Year) #REQUIRED >

<!ELEMENT ProductCatalogPriceData
(ListPrice,PriceEffectiveDate,PriceModifierDown?,
    PriceModifierUp?) >

```


Product Catalog Update, *continued*

```
<!ELEMENT ListPrice (Pricing) >
<!ELEMENT Pricing (MonetaryAmount,PriceBasis,PriceReason?) >
<!ELEMENT MonetaryAmount (#PCDATA) >
<!ATTLIST MonetaryAmount
          CurrencyCode CDATA #REQUIRED >
<!ELEMENT PriceBasis (Measurement) >
<!ELEMENT PriceReason (#PCDATA) >
<!ELEMENT PriceEffectiveDate (DatetimeRange) >
<!ELEMENT PriceModifierDown (#PCDATA) >
<!ELEMENT PriceModifierUp (#PCDATA) >
<!ELEMENT MinimumOrderQuantity (Measurement) >
<!ELEMENT ApproximateWeight (Measurement) >
<!ELEMENT NotAvailableInCountryCode (Code) >
<!ELEMENT ShelfLife (Duration) >
<!ELEMENT TechnicalSpecificationsURL (#PCDATA) >
<!ELEMENT MSDS (DocumentIdentifier?,URL?) >
<!ELEMENT RestrictedOrderFlag (#PCDATA) >
<!ELEMENT Restrictions (#PCDATA) >
<!ELEMENT HandlingCertificationRequiredCode (Code) >
<!ELEMENT Regulations (#PCDATA) >
<!ELEMENT RoundingFactor (Measurement) >
<!ELEMENT LimitDisplayFlag (#PCDATA) >
```

Customer Specific Catalog Update

```

<!ELEMENT CustomerSpecificCatalogUpdate (Header, CustomerSpecificCatalogUpdateBody)
>

<!ATTLIST CustomerSpecificCatalogUpdate
    Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier, ThisDocumentDateTime,
    RequestingDocumentIdentifier?, RequestingDocumentDateTime?, From, To) >

<!ELEMENT CustomerSpecificCatalogUpdateBody (
    CustomerSpecificCatalogUpdateProperties,
    CustomerSpecificCatalogUpdatePartners,
    CustomerSpecificCatalogUpdateDetails) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT CustomerSpecificCatalogUpdateProperties
(LanguageCode, CatalogIdentifier?) >

<!ELEMENT CustomerSpecificCatalogUpdatePartners (Seller, Buyer) >

<!ELEMENT CustomerSpecificCatalogUpdateDetails (
    CustomerSpecificCatalogUpdateProductLineItem+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+, PartnerIdentifier), ContactInformation*,
    AddressInformation?, TaxInformation*, URL?) >

<!ELEMENT LanguageCode (Code) >

<!ELEMENT CatalogIdentifier (#PCDATA) >

<!ELEMENT Seller (PartnerInformation) >

```

Customer Specific Catalog Update, *continued*

```

<!ELEMENT Buyer (PartnerInformation) >

<!ELEMENT CustomerSpecificCatalogUpdateProductLineItem (LineItemNumber,
    BuyerProductInformation?,ProductInformation,PriceStructure+,
    MinimumQuantity?,MaximumQuantity?,OrderLeadTime?,
    ShippingServiceLevelCode?,SpecialFulfillmentRequestCode?,
    ProjectedVolume?,StandardOrderQuantity?,SpecialInstructions*,
    CatalogEffectiveDates) >

<!ATTLIST CustomerSpecificCatalogUpdateProductLineItem
    Action CDATA #IMPLIED >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT LineItemNumber (#PCDATA) >

<!ELEMENT BuyerProductInformation (ProductIdentification) >

<!ELEMENT ProductInformation (ProductIdentification,ProductSpecification*,
    ProductClassificationCode*,PackagingInformation?,CountryOfOriginCode?,
    MarketingName*,ManufacturerInformation?,ProductInformation*) >

```

Customer Specific Catalog Update, *continued*

```

<!ELEMENT PriceStructure (DocumentReference?,ThirdParty?,PlannedEndUse*,
    BuyerContractInformation?,ShipmentTerms?,TransportMethodCode?,
    CustomerSpecificCatalogPriceData*,ECDutyStatus?,CountryOfOriginCode?,
    ShipFrom?,(ShipTo | CountryOfFinalDestination)?,ShippingLeadTime?) >

<!ELEMENT MinimumQuantity (Measurement) >

<!ELEMENT MaximumQuantity (Measurement) >

<!ELEMENT OrderLeadTime (Duration) >

<!ELEMENT ShippingServiceLevelCode (Code) >

<!ELEMENT SpecialFulfillmentRequestCode (Code) >

<!ELEMENT ProjectedVolume (Measurement) >

<!ELEMENT StandardOrderQuantity (Measurement) >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
    |
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT CatalogEffectiveDates (DateTimeRange) >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

```

Customer Specific Catalog Update, *continued*

```

<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
    TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT ProductIdentification (ProductIdentifier+,ProductDescription?,
    ProductGradeDescription?) >
<!ELEMENT ProductSpecification
(ProductSpecificationName,ProductSpecificationValue,
    ProductSpecificationUnit,ProductSpecificationMethod) >
<!ELEMENT ProductClassificationCode (Code) >
<!ELEMENT PackagingInformation (ProductIdentification?,PackagingQuantity?,
PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
    PackagingInformation*) >
<!ELEMENT CountryOfOriginCode (Code) >
<!ELEMENT MarketingName (#PCDATA) >
<!ATTLIST MarketingName
    Registration NOTATION (RegisteredTradeMark | RegisteredTradeName)
    #REQUIRED >

```

Customer Specific Catalog Update, *continued*

```

<!ELEMENT ManufacturerInformation (PartnerName,PartnerInformation?,
    ProductIdentification?) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ThirdParty (PartnerInformation) >

<!ELEMENT PlannedEndUse (#PCDATA) >

<!ELEMENT BuyerContractInformation (DocumentReference) >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

<!ELEMENT TransportMethodCode (Code) >

<!ELEMENT CustomerSpecificCatalogPriceData (CustomerCatalogPrice,
    PriceEffectiveDate,PriceModifierDown?,PriceModifierUp?) >

<!ELEMENT ECDutyStatus (#PCDATA) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT CountryOfFinalDestination (Code) >

<!ELEMENT ShippingLeadTime (Measurement) >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT Duration (#PCDATA) >

<!ATTLIST Duration
    TimeUnit (Hour | Day | Week | Month | Year) #REQUIRED >

<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

```

Customer Specific Catalog Update, *continued*

```

<!ELEMENT TelecomAreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT ProductIdentifier (#PCDATA) >
<!ATTLIST ProductIdentifier
      Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
      ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >
<!ELEMENT ProductDescription (#PCDATA) >
<!ELEMENT ProductGradeDescription (#PCDATA) >
<!ELEMENT ProductSpecificationName (#PCDATA) >
<!ELEMENT ProductSpecificationValue (#PCDATA) >
<!ELEMENT ProductSpecificationUnit (#PCDATA) >
<!ELEMENT ProductSpecificationMethod (Code) >
<!ELEMENT PackagingQuantity (#PCDATA) >
<!ELEMENT PackagingType (#PCDATA) >
<!ELEMENT PackagingWeight (Measurement) >
<!ELEMENT PackagingLabel (#PCDATA) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT ShipmentTermsCode (Code) >
<!ELEMENT ShipmentTermsLocation (#PCDATA) >
<!ELEMENT CustomerCatalogPrice (Pricing) >
<!ELEMENT PriceEffectiveDate (DateTimeRange) >
<!ELEMENT PriceModifierDown (#PCDATA) >
<!ELEMENT PriceModifierUp (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >

```

Customer Specific Catalog Update, continued

```
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT ToDateTime (#PCDATA) >

<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT Pricing (MonetaryAmount,PriceBasis,PriceReason?) >

<!ELEMENT MonetaryAmount (#PCDATA) >

<!ATTLIST MonetaryAmount
    CurrencyCode CDATA #REQUIRED >

<!ELEMENT PriceBasis (Measurement) >

<!ELEMENT PriceReason (#PCDATA) >
```


Request for Quote

```

<!ELEMENT RequestForQuote (Header,RequestForQuoteBody) >
<!ATTLIST RequestForQuote
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```

Request for Quote, continued

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Request for Quote, continued

```

<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT RequestForQuoteBody (RequestForQuoteProperties,RequestForQuotePartners,
    RequestForQuoteDetails) >
<!ELEMENT RequestForQuoteProperties (LanguageCode,CurrencyCode,
    MarketPlaceInformation?,InvoicePreference?,ShipmentTerms?,
    PaymentTerms?,PaymentMethodCode?,CountryOfFinalDestination,
    RFQIdentifier?) >
<!ELEMENT LanguageCode (Code) >
<!ELEMENT CurrencyCode (Code) >
<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >
<!ELEMENT MarketPlaceIdentifier (#PCDATA) >
<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

```

Request for Quote, continued

```

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT InvoicePreference (InvoiceMode,BillingScheduleCode) >

<!ELEMENT InvoiceMode (#PCDATA) >

<!ATTLIST InvoiceMode
    CommunicationMode NOTATION (Fax | Mail | EDI | eMail | IPaddress)
    #REQUIRED >

<!ELEMENT BillingScheduleCode (Code) >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

<!ELEMENT ShipmentTermsCode (Code) >

<!ELEMENT ShipmentTermsLocation (#PCDATA) >

<!ELEMENT PaymentTerms (#PCDATA) >

<!ELEMENT PaymentMethodCode (Code) >

<!ELEMENT CountryOfFinalDestination (Code) >

<!ELEMENT RFQIdentifier (#PCDATA) >

<!ELEMENT RequestForQuotePartners (Buyer,SoldTo?,Seller,ShipTo,Carrier?,ShipFrom?)
>

<!ELEMENT Buyer (PartnerInformation) >

<!ELEMENT SoldTo (PartnerInformation) >

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT ShipTo (PartnerInformation) >

```

Request for Quote, continued

```

<!ELEMENT Carrier (PartnerInformation) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT RequestForQuoteDetails (RequestForQuoteProductLineItem+) >

<!ELEMENT RequestForQuoteProductLineItem (LineItemNumber,RFQProduct?,
      SellerProductInformation,DocumentReference?,ProjectedVolume?,
      StandardOrderQuantity?,RequestedPackaging?,TransportMethodCode?,
      RequestedPrice?,RequestedAgreementPeriod?,RequestedFirstOrderDate?,(
      DispatchOnDateTime | DeliveryOnDateTime | DeliveryByDateTime |
      DeliveryBetweenDateTime)?,ShipTo?,Carrier?,ThirdParty?,ShipmentTerms?,
      CountryOfOriginCode?,ECDutyStatus?,ShippingServiceLevelCode?,
      SpecialFulfillmentRequestCode?,CountryOfFinalDestination?,
      SpecialInstructions*,PlannedEndUse*,RequestedQuoteResponse?) >

<!ATTLIST RequestForQuoteProductLineItem
      UnitOfMeasureCode CDATA #IMPLIED >

<!ELEMENT LineItemNumber (#PCDATA) >

<!ELEMENT RFQProduct (#PCDATA) >

<!ELEMENT SellerProductInformation (ProductIdentification) >

<!ELEMENT ProductIdentification (ProductIdentifier+,ProductDescription?,
      ProductGradeDescription?) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
      Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
      ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
      ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
      DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
      |
      PRONumber | AppointmentNumber | ShipmentIdentifier |
      LoadPlanningNumber | BookingNumber | LineItemNumber |
      SalesOrderReference | RequisitionNumber | LetterOfCredit |
      CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ProjectedVolume (Measurement) >

```

Request for Quote, continued

```

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT StandardOrderQuantity (Measurement) >

<!ELEMENT RequestedPackaging (PackagingInformation?) >

<!ELEMENT PackagingInformation (ProductIdentification?,PackagingQuantity?,
PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
PackagingInformation*) >

<!ELEMENT PackagingQuantity (#PCDATA) >

<!ELEMENT PackagingType (#PCDATA) >

<!ELEMENT PackagingWeight (Measurement) >

<!ELEMENT PackagingLabel (#PCDATA) >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
|
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT TransportMethodCode (Code) >

<!ELEMENT RequestedPrice (Pricing) >

<!ELEMENT Pricing (MonetaryAmount,PriceBasis,PriceReason?) >

<!ELEMENT MonetaryAmount (#PCDATA) >

<!ATTLIST MonetaryAmount
    CurrencyCode CDATA #REQUIRED >

<!ELEMENT PriceBasis (Measurement) >

<!ELEMENT PriceReason (#PCDATA) >

<!ELEMENT RequestedAgreementPeriod (DateTime) >

<!ELEMENT RequestedFirstOrderDate (DateTime) >

<!ELEMENT DispatchOnDateTime (DateTime) >

```

Request for Quote, continued

```
<!ELEMENT DeliveryOnDateTime (DateTime) >
<!ELEMENT DeliveryByDateTime (DateTime) >
<!ELEMENT DeliveryBetweenDateTime (DateTimeRange) >
<!ELEMENT ThirdParty (PartnerInformation) >
<!ELEMENT CountryOfOriginCode (Code) >
<!ELEMENT ECDutyStatus (#PCDATA) >
<!ELEMENT ShippingServiceLevelCode (Code) >
<!ELEMENT SpecialFulfillmentRequestCode (Code) >
<!ELEMENT PlannedEndUse (#PCDATA) >
<!ELEMENT RequestedQuoteResponse (ContactInformation*,ClosingDate) >
<!ATTLIST RequestedQuoteResponse
    PreferredMethod NOTATION (Email | Fax | Telephone) #IMPLIED >
<!ELEMENT ClosingDate (DateTime) >
```

Purchase Order

Order Create

```

<!ELEMENT OrderCreate (Header,OrderCreateBody) >

<!ATTLIST OrderCreate
    Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >

<!ELEMENT OrderCreateBody (OrderCreateProperties,OrderCreatePartners,
    OrderCreateDetails) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT OrderCreateProperties (PurchaseOrderNumber,PurchaseOrderTypeCode,
    PurchaseOrderIssuedDate,LanguageCode,CurrencyCode,RevisionNumber,
    DocumentReference*,ReleaseNumber?,MarketPlaceInformation?,
    SpecialInvoicePreference?,SpecialInstructions*,ShipmentTerms?,
    PaymentTerms?,Routing?,ShipWithPurchaseOrder*,
    LetterOfCreditInformation?,CarrierToExclude*,
    CountryOfFinalDestination) >

<!ELEMENT OrderCreatePartners (Buyer,SoldTo?,Seller,ShipTo,Carrier?,BillTo?,Payer,
    ThirdParty?) >

<!ELEMENT OrderCreateDetails (OrderCreateProductLineItem+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT PurchaseOrderNumber (DocumentReference) >

```


Order Create, continued

```

<!ELEMENT PurchaseOrderTypeCode (Code) >

<!ELEMENT PurchaseOrderIssuedDate (DateTime) >

<!ELEMENT LanguageCode (Code) >

<!ELEMENT CurrencyCode (Code) >

<!ELEMENT RevisionNumber (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
|
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ReleaseNumber (#PCDATA) >

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

<!ELEMENT SpecialInvoicePreference (InvoiceMode,BillingScheduleCode) >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
|
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

<!ELEMENT PaymentTerms (#PCDATA) >

<!ELEMENT Routing (#PCDATA) >

<!ELEMENT ShipWithPurchaseOrder (DocumentReference) >

<!ELEMENT LetterOfCreditInformation
(DocumentReference,AdvisingBank,MonetaryAmount,
    PaymentTerms?,LetterOfCreditQuantity?,ExchangeRate?,
    LetterOfCreditVoyageDateTime?,LetterOfCreditNegotiatedDateTime?) >

```

Order Create, continued

```

<!ELEMENT CarrierToExclude (PartnerInformation) >
<!ELEMENT CountryOfFinalDestination (Code) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT SoldTo (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT ShipTo (PartnerInformation) >
<!ELEMENT Carrier (PartnerInformation) >
<!ELEMENT BillTo (PartnerInformation) >
<!ELEMENT Payer (PartnerInformation,AccountInformation) >
<!ELEMENT ThirdParty (PartnerInformation) >
<!ELEMENT OrderCreateProductLineItem (LineItemNumber,PurchaseOrderLineItemNumber,
    SellerProductInformation,BuyerProductInformation?,
    ManufacturerProductInformation?,DocumentReference*,ProductQuantity,
    PackagingQuantity?,EngineeringChangeOrderIdentifier?,BatchNumber*,
    CountryOfOriginCode?,(DispatchOnDateTime | DeliveryByDateTime |
    DeliveryOnDateTime | DeliveryBetweenDateTime),ShipTo?,Carrier?,
    ThirdParty?,DeliveryTolerances?,ShipmentTerms?,TransportInformation*,
    RequestedPrice?,TaxableFlag?,RequestedDocument*,Routing?,
    BalanceItemFlag?,DutyStatus?,ImportLicenseNeededFlag?,
    ImportLicenseAvailableFlag?,CommissionPayee?,SecondWeightFlag?,
    CustomerRequestedDeliveryHoldFlag?,AccompanyingSampleCode?,
    SpecialFulfillmentRequestCode?,CountryOfFinalDestination?,
    SpecialInstructions*,LineItemPurposeCode) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

```

Order Create, continued

```

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT InvoiceMode (#PCDATA) >

<!ATTLIST InvoiceMode
    CommunicationMode NOTATION (Fax | Mail | EDI | eMail | IPaddress)
    #REQUIRED >

<!ELEMENT BillingScheduleCode (Code) >

<!ELEMENT ShipmentTermsCode (Code) >

<!ELEMENT ShipmentTermsLocation (#PCDATA) >

<!ELEMENT AdvisingBank (PartnerInformation) >

<!ELEMENT MonetaryAmount (#PCDATA) >

<!ATTLIST MonetaryAmount
    CurrencyCode CDATA #REQUIRED >

```

Order Create, continued

```

<!ELEMENT LetterOfCreditQuantity (MeasurementRange) >
<!ELEMENT ExchangeRate (#PCDATA) >
<!ELEMENT LetterOfCreditVoyageDateTime (DateTimeRange) >
<!ELEMENT LetterOfCreditNegotiatedDateTime (DateTimeRange) >
<!ELEMENT AccountInformation (AccountHolderName+,(AccountNumber?,
    FinancialInstitution?,FinancialInstitutionDFINumber?) | (
    CreditCardNumber?,CreditCardType?,CreditCardExpirationDate?)) >
<!ELEMENT LineItemNumber (#PCDATA) >
<!ELEMENT PurchaseOrderLineItemNumber (#PCDATA) >
<!ELEMENT SellerProductInformation (ProductIdentification) >
<!ELEMENT BuyerProductInformation (ProductIdentification) >
<!ELEMENT ManufacturerProductInformation (ProductIdentification) >
<!ELEMENT ProductQuantity (Measurement) >
<!ELEMENT PackagingQuantity (#PCDATA) >
<!ELEMENT EngineeringChangeOrderIdentifier (DocumentIdentifier) >
<!ELEMENT BatchNumber (#PCDATA) >
<!ATTLIST BatchNumber
    BatchNumberCreator NOTATION (Seller | Manufacturer) #REQUIRED >
<!ELEMENT CountryOfOriginCode (Code) >
<!ELEMENT DispatchOnDateTime (DateTime) >
<!ELEMENT DeliveryByDateTime (DateTime) >
<!ELEMENT DeliveryOnDateTime (DateTime) >
<!ELEMENT DeliveryBetweenDateTime (DateTimeRange) >
<!ELEMENT DeliveryTolerances (LowerLimit,UpperLimit) >
<!ATTLIST DeliveryTolerances
    UnitOfMeasureCode CDATA #IMPLIED >
<!ELEMENT TransportInformation (TransportMethodCode,Carrier?,ShipFrom?,ShipTo?,
    CarrierEquipmentCode?,DocumentReference?,TransportName*) >

```

Order Create, continued

```

<!ATTLIST TransportInformation
    StageIdentifier NOTATION (Primary | Secondary | Main | Final)
    #IMPLIED >

<!ELEMENT RequestedPrice (Pricing) >

<!ELEMENT TaxableFlag (#PCDATA) >

<!ELEMENT RequestedDocument (DocumentDeliveryInformation,NumberOfOriginals,
    NumberOfCopies?) >

<!ATTLIST RequestedDocument
    Language CDATA #REQUIRED
    RequestedDocumentType CDATA #REQUIRED >

<!ELEMENT BalanceItemFlag (#PCDATA) >

<!ELEMENT DutyStatus (#PCDATA) >

<!ELEMENT ImportLicenseNeededFlag (#PCDATA) >

<!ELEMENT ImportLicenseAvailableFlag (#PCDATA) >

<!ELEMENT CommissionPayee (PartnerInformation) >

<!ELEMENT SecondWeightFlag (#PCDATA) >

<!ELEMENT CustomerRequestedDeliveryHoldFlag (#PCDATA) >

<!ELEMENT AccompanyingSampleCode (Code) >

<!ELEMENT SpecialFulfillmentRequestCode (Code) >

<!ELEMENT LineItemPurposeCode (Code) >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >

```

Order Create, continued

```
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
          TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT MeasurementRange (MinimumMeasurement?,Measurement?,MaximumMeasurement?)
>
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT AccountHolderName (#PCDATA) >
<!ELEMENT AccountNumber (#PCDATA) >
<!ELEMENT FinancialInstitution (#PCDATA) >
<!ELEMENT FinancialInstitutionDFINumber (#PCDATA) >
<!ELEMENT CreditCardNumber (#PCDATA) >
<!ELEMENT CreditCardType (#PCDATA) >
<!ELEMENT CreditCardExpirationDate (DateTime) >
```

Order Create, continued

```

<!ELEMENT ProductIdentification (ProductIdentifier+,ProductDescription?,
    ProductGradeDescription?) >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT LowerLimit (#PCDATA) >

<!ELEMENT UpperLimit (#PCDATA) >

<!ELEMENT TransportMethodCode (Code) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT CarrierEquipmentCode (Code) >

<!ELEMENT TransportName (#PCDATA) >

<!ATTLIST TransportName
    TransportEquipmentType CDATA #IMPLIED >

<!ELEMENT Pricing (MonetaryAmount,PriceBasis,PriceReason?) >

<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >

<!ATTLIST DocumentDeliveryInformation
    DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
    Postal) #REQUIRED >

<!ELEMENT NumberOfOriginals (#PCDATA) >

<!ELEMENT NumberOfCopies (#PCDATA) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT MinimumMeasurement (#PCDATA) >

<!ATTLIST MinimumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT MaximumMeasurement (#PCDATA) >

```

Order Create, continued

```
<!ATTLIST MaximumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT FromDateTime (#PCDATA) >

<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT ToDateTime (#PCDATA) >

<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT PriceBasis (Measurement) >

<!ELEMENT PriceReason (#PCDATA) >
```


Order Response

```

<!ELEMENT OrderResponse (Header,OrderResponseBody) >

<!ATTLIST OrderResponse
    Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >

<!ELEMENT OrderResponseBody (OrderResponseProperties,OrderResponsePartners,
    OrderResponseDetails) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT OrderResponseProperties (PurchaseOrderNumber,PurchaseOrderTypeCode,
    PurchaseOrderIssuedDate,LanguageCode,CurrencyCode,RevisionNumber,
    DocumentReference*,ReleaseNumber?,MarketPlaceInformation?,
    SpecialInvoicePreference?,SpecialInstructions*,ShipmentTerms?,
    PaymentTerms?,Routing?,ShipWithPurchaseOrder*,
    LetterOfCreditInformation?,CarrierToExclude*,
    FinalDestinationCountryCode,PurchaseOrderResponseReasonCode) >

<!ELEMENT OrderResponsePartners (Buyer,SoldTo?,Seller,ShipTo,Carrier?,BillTo?,
    Payer,ThirdParty?) >

<!ELEMENT OrderResponseDetails (OrderResponseProductLineItem+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT PurchaseOrderNumber (#PCDATA) >

<!ELEMENT PurchaseOrderTypeCode (Code) >

```

Order Response, continued

```

<!ELEMENT PurchaseOrderIssuedDate (DateTime) >

<!ELEMENT LanguageCode (Code) >

<!ELEMENT CurrencyCode (Code) >

<!ELEMENT RevisionNumber (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ReleaseNumber (#PCDATA) >

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

<!ELEMENT SpecialInvoicePreference (InvoiceMode,BillingScheduleCode) >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
    |
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

<!ELEMENT PaymentTerms (TermsOfSale,PaymentTermsBasisDateCode?,
    PaymentTermsBasisDate?,Discounts?,Deferred?,Penalty?) >

<!ELEMENT Routing (#PCDATA) >

<!ELEMENT ShipWithPurchaseOrder (DocumentReference) >

<!ELEMENT LetterOfCreditInformation
(DocumentReference,AdvisingBank,MonetaryAmount,
    PaymentTerms?,LetterOfCreditQuantity?,ExchangeRate?,
    LetterOfCreditVoyageDateTime?,LetterOfCreditNegotiatedDateTime?) >

<!ELEMENT CarrierToExclude (PartnerInformation) >

```

Order Response, continued

```

<!ELEMENT FinalDestinationCountryCode (Code) >
<!ELEMENT PurchaseOrderResponseReasonCode (Code) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT SoldTo (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT ShipTo (PartnerInformation) >
<!ELEMENT Carrier (PartnerInformation) >
<!ELEMENT BillTo (PartnerInformation) >
<!ELEMENT Payer (PartnerInformation,AccountInformation) >
<!ELEMENT ThirdParty (PartnerInformation) >
<!ELEMENT OrderResponseProductLineItem
(LineItemNumber,PurchaseOrderLineItemNumber,
    SellerProductInformation,BuyerProductInformation?,
    ManufacturerProductInformation?,DocumentReference*,
    SalesOrderIdentifier,SalesOrderItem,ProductQuantity,
    PackagingQuantity?,EngineeringChangeOrderIdentifier?,BatchNumber*,
    CountryOfOriginCode?,(DispatchOnDateTime | DeliveryByDateTime |
    DeliveryOnDateTime | DeliveryBetweenDateTime),ShipTo?,Carrier?,
ThirdParty?,DeliveryTolerances?,ShipmentTerms?,TransportInformation*,
    ConfirmedPrice?,TaxableFlag?,RequestedDocument*,Routing?,
    BalanceItemFlag?,DutyStatus?,ImportLicenseNeededFlag?,
    ImportLicenseAvailableFlag?,CommissionPayee?,SecondWeightFlag?,
    CustomerRequestedDeliveryHoldFlag?,AccompanyingSampleCode?,
    SpecialFulfillmentRequestCode?,FinalDestinationCountryCode?,
    SpecialInstructions*,ChangeAcknowledgementFlag,Description*,
    LineStatusCode,LineResponseReasonCode,LineItemPurposeCode) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

```

Order Response, continued

```

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT InvoiceMode (#PCDATA) >

<!ATTLIST InvoiceMode
    CommunicationMode NOTATION (Fax | Mail | EDI | eMail | IPaddress)
    #REQUIRED >

<!ELEMENT BillingScheduleCode (Code) >

<!ELEMENT ShipmentTermsCode (Code) >

<!ELEMENT ShipmentTermsLocation (#PCDATA) >

<!ELEMENT TermsOfSale (#PCDATA) >

<!ELEMENT PaymentTermsBasisDateCode (Code) >

```

Order Response, continued

```

<!ELEMENT PaymentTermsBasisDate (DateTime) >

<!ELEMENT Discounts (PercentDiscount,DiscountAmount,(DaysDue | DiscountsDueDate)+)
>

<!ELEMENT Deferred (DeferredAmount,DeferredDueDate,PercentDeferredPayable) >

<!ELEMENT Penalty (#PCDATA) >

<!ELEMENT AdvisingBank (PartnerInformation) >

<!ELEMENT MonetaryAmount (#PCDATA) >

<!ATTLIST MonetaryAmount
          CurrencyCode CDATA #REQUIRED >

<!ELEMENT LetterOfCreditQuantity (MeasurementRange) >

<!ELEMENT ExchangeRate (#PCDATA) >

<!ELEMENT LetterOfCreditVoyageDateTime (DateTimeRange) >

<!ELEMENT LetterOfCreditNegotiatedDateTime (DateTimeRange) >

<!ELEMENT AccountInformation (AccountHolderName+,(AccountNumber?,
          FinancialInstitution?,FinancialInstitutionDFINumber?) | (
          CreditCardNumber?,CreditCardType?,CreditCardExpirationDate?)) >

<!ELEMENT LineItemNumber (#PCDATA) >

<!ELEMENT PurchaseOrderLineItemNumber (#PCDATA) >

<!ELEMENT SellerProductInformation (ProductIdentification) >

<!ELEMENT BuyerProductInformation (ProductIdentification) >

<!ELEMENT ManufacturerProductInformation (ProductIdentification) >

<!ELEMENT SalesOrderIdentifier (DocumentIdentifier) >

<!ELEMENT SalesOrderItem (#PCDATA) >

<!ELEMENT ProductQuantity (Measurement) >

<!ELEMENT PackagingQuantity (#PCDATA) >

<!ELEMENT EngineeringChangeOrderIdentifier (DocumentIdentifier) >

<!ELEMENT BatchNumber (#PCDATA) >

```

Order Response, continued

```

<!ATTLIST BatchNumber
    BatchNumberCreator NOTATION (Seller | Manufacturer) #REQUIRED >

<!ELEMENT CountryOfOriginCode (Code) >

<!ELEMENT DispatchOnDateTime (DateTime) >

<!ELEMENT DeliveryByDateTime (DateTime) >

<!ELEMENT DeliveryOnDateTime (DateTime) >

<!ELEMENT DeliveryBetweenDateTime (DateTimeRange) >

<!ELEMENT DeliveryTolerances (LowerLimit,UpperLimit) >

<!ATTLIST DeliveryTolerances
    UnitOfMeasureCode CDATA #IMPLIED >

<!ELEMENT TransportInformation (TransportMethodCode,Carrier?,ShipFrom?,ShipTo?,
    CarrierEquipmentCode?,DocumentReference?,TransportName*) >

<!ATTLIST TransportInformation
    StageIdentifier NOTATION (Primary | Secondary | Main | Final)
    #IMPLIED >

<!ELEMENT ConfirmedPrice (Pricing) >

<!ELEMENT TaxableFlag (#PCDATA) >

<!ELEMENT RequestedDocument (DocumentDeliveryInformation?,NumberOfOriginals,
    NumberOfCopies?) >

<!ATTLIST RequestedDocument
    Language CDATA #REQUIRED
    RequestedDocumentType CDATA #REQUIRED
    DeliveryTiming NOTATION (AtOrderCreation | AtGoodsIssue |
    DeliveredWithMaterial) #IMPLIED >

<!ELEMENT BalanceItemFlag (#PCDATA) >

<!ELEMENT DutyStatus (#PCDATA) >

<!ELEMENT ImportLicenseNeededFlag (#PCDATA) >

<!ELEMENT ImportLicenseAvailableFlag (#PCDATA) >

<!ELEMENT CommissionPayee (PartnerInformation) >

<!ELEMENT SecondWeightFlag (#PCDATA) >

<!ELEMENT CustomerRequestedDeliveryHoldFlag (#PCDATA) >

```

Order Response, continued

```

<!ELEMENT AccompanyingSampleCode (Code) >
<!ELEMENT SpecialFulfillmentRequestCode (Code) >
<!ELEMENT ChangeAcknowledgementFlag (#PCDATA) >
<!ELEMENT Description (#PCDATA) >
<!ELEMENT LineStatusCode (Code) >
<!ELEMENT LineResponseReasonCode (Code) >
<!ELEMENT LineItemPurposeCode (Code) >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
    TaxType CDATA #REQUIRED >

```

Order Response, continued

```
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT PercentDiscount (#PCDATA) >
<!ELEMENT DiscountAmount (#PCDATA) >
<!ELEMENT DaysDue (#PCDATA) >
<!ELEMENT DiscountsDueDate (DateTime) >
<!ELEMENT DeferredAmount (#PCDATA) >
<!ELEMENT DeferredDueDate (DateTime) >
<!ELEMENT PercentDeferredPayable (#PCDATA) >
<!ELEMENT MeasurementRange (MinimumMeasurement?,Measurement?,MaximumMeasurement?)
>
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT AccountHolderName (#PCDATA) >
<!ELEMENT AccountNumber (#PCDATA) >
<!ELEMENT FinancialInstitution (#PCDATA) >
<!ELEMENT FinancialInstitutionDFINumber (#PCDATA) >
<!ELEMENT CreditCardNumber (#PCDATA) >
<!ELEMENT CreditCardType (#PCDATA) >
<!ELEMENT CreditCardExpirationDate (DateTime) >
<!ELEMENT ProductIdentification (ProductIdentifier?,ProductDescription?,
ProductGradeDescription?) >
<!ELEMENT Measurement (#PCDATA) >
```


Order Response, continued

```

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT LowerLimit (#PCDATA) >

<!ELEMENT UpperLimit (#PCDATA) >

<!ELEMENT TransportMethodCode (Code) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT CarrierEquipmentCode (Code) >

<!ELEMENT TransportName (#PCDATA) >

<!ATTLIST TransportName
    TransportEquipmentType CDATA #IMPLIED >

<!ELEMENT Pricing (MonetaryAmount,PriceBasis,PriceReason?) >

<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >

<!ATTLIST DocumentDeliveryInformation
    DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
    Postal) #REQUIRED >

<!ELEMENT NumberOfOriginals (#PCDATA) >

<!ELEMENT NumberOfCopies (#PCDATA) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT MinimumMeasurement (#PCDATA) >

<!ATTLIST MinimumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT MaximumMeasurement (#PCDATA) >

<!ATTLIST MaximumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT FromDateTime (#PCDATA) >

```

Order Response, continued

```
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT ToDateTime (#PCDATA) >

<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT PriceBasis (Measurement) >

<!ELEMENT PriceReason (#PCDATA) >
```

Order Change

```
<!ELEMENT OrderChange (Header,OrderChangeBody) >
<!ATTLIST OrderChange
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT OrderChangeBody (OrderChangeProperties,OrderChangePartners,
    OrderChangeDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
```

Order Change, continued

```

<!ELEMENT OrderChangeProperties (PurchaseOrderNumber,PurchaseOrderTypeCode,
    PurchaseOrderIssuedDate,LanguageCode,CurrencyCode,RevisionNumber,
    DocumentReference*,ReleaseNumber?,MarketPlaceInformation?,
    SpecialInvoicePreference?,SpecialInstructions*,ShipmentTerms?,
    PaymentTerms?,Routing?,ShipWithPurchaseOrder*,
    LetterOfCreditInformation?,CarrierToExclude*,
    CountryOfFinalDestination) >

<!ELEMENT OrderChangePartners (Buyer,SoldTo?,Seller,ShipTo,Carrier?,BillTo?,Payer,
    ThirdParty?) >

<!ELEMENT OrderChangeDetails (OrderChangeProductLineItem+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT PurchaseOrderNumber (DocumentReference) >

<!ELEMENT PurchaseOrderTypeCode (Code) >

<!ELEMENT PurchaseOrderIssuedDate (DateTime) >

<!ELEMENT LanguageCode (Code) >

<!ELEMENT CurrencyCode (Code) >

<!ELEMENT RevisionNumber (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ReleaseNumber (#PCDATA) >

```

Order Change, continued

```

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

<!ELEMENT SpecialInvoicePreference (InvoiceMode,BillingScheduleCode) >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
    |
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

<!ELEMENT PaymentTerms (#PCDATA) >

<!ELEMENT Routing (#PCDATA) >

<!ELEMENT ShipWithPurchaseOrder (DocumentReference) >

<!ELEMENT LetterOfCreditInformation
(DocumentReference,AdvisingBank,MonetaryAmount,
    PaymentTerms?,LetterOfCreditQuantity?,ExchangeRate?,
    LetterOfCreditVoyageDateTime?,LetterOfCreditNegotiatedDateTime?) >

<!ELEMENT CarrierToExclude (PartnerInformation) >

<!ELEMENT CountryOfFinalDestination (Code) >

<!ELEMENT Buyer (PartnerInformation) >

<!ELEMENT SoldTo (PartnerInformation) >

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT Carrier (PartnerInformation) >

<!ELEMENT BillTo (PartnerInformation) >

<!ELEMENT Payer (PartnerInformation,AccountInformation) >

<!ELEMENT ThirdParty (PartnerInformation) >

```

Order Change, continued

```

<!ELEMENT OrderChangeProductLineItem (LineItemNumber,PurchaseOrderLineItemNumber,
    SellerProductInformation,BuyerProductInformation?,
    ManufacturerProductInformation?,DocumentReference*,
    SalesOrderIdentifier?,SalesOrderItem?,ProductQuantity,
    PackagingQuantity?,EngineeringOrderChangeIdentifier?,BatchNumber*,
    CountryOfOriginCode?,(DispatchOnDateTime | DeliveryByDateTime |
    DeliveryOnDateTime | DeliveryBetweenDateTime),ShipTo?,Carrier?,
    ThirdParty?,DeliveryTolerances?,ShipmentTerms?,TransportInformation*,
    RequestedPrice?,TaxableFlag?,RequestedDocument*,Routing?,
    BalanceItemFlag?,DutyStatus?,ImportLicenseNeededFlag?,
    ImportLicenseAvailableFlag?,CommissionPayee?,SecondWeightFlag?,
    CustomerRequestedDeliveryHoldFlag?,AccompanyingSampleCode?,
    SpecialFulfillmentRequestCode?,CountryOfFinalDestination?,
    SpecialInstructions*,LineItemPurposeCode) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

```

Order Change, continued

```

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT InvoiceMode (#PCDATA) >

<!ATTLIST InvoiceMode
    CommunicationMode NOTATION (Fax | Mail | EDI | eMail | IPaddress)
    #REQUIRED >

<!ELEMENT BillingScheduleCode (Code) >

<!ELEMENT ShipmentTermsCode (Code) >

<!ELEMENT ShipmentTermsLocation (#PCDATA) >

<!ELEMENT AdvisingBank (PartnerInformation) >

<!ELEMENT MonetaryAmount (#PCDATA) >

<!ATTLIST MonetaryAmount
    CurrencyCode CDATA #REQUIRED >

<!ELEMENT LetterOfCreditQuantity (MeasurementRange) >

<!ELEMENT ExchangeRate (#PCDATA) >

<!ELEMENT LetterOfCreditVoyageDateTime (DatetimeRange) >

<!ELEMENT LetterOfCreditNegotiatedDateTime (DatetimeRange) >

<!ELEMENT AccountInformation (AccountHolderName+,( (AccountNumber?,
    FinancialInstitution?,FinancialInstitutionDFINumber?) | (
    CreditCardNumber?,CreditCardType?,CreditCardExpirationDate?))) >

<!ELEMENT LineItemNumber (#PCDATA) >

<!ELEMENT PurchaseOrderLineItemNumber (#PCDATA) >

<!ELEMENT SellerProductInformation (ProductIdentification) >

```

Order Change, continued

```

<!ELEMENT BuyerProductInformation (ProductIdentification) >
<!ELEMENT ManufacturerProductInformation (ProductIdentification) >
<!ELEMENT SalesOrderIdentifier (DocumentReference) >
<!ELEMENT SalesOrderItem (#PCDATA) >
<!ELEMENT ProductQuantity (Measurement) >
<!ELEMENT PackagingQuantity (#PCDATA) >
<!ELEMENT EngineeringOrderChangeIdentifier (DocumentIdentifier) >
<!ELEMENT BatchNumber (#PCDATA) >
<!ATTLIST BatchNumber
    BatchNumberCreator NOTATION (Seller | Manufacturer) #REQUIRED >
<!ELEMENT CountryOfOriginCode (Code) >
<!ELEMENT DispatchOnDateTime (DateTime) >
<!ELEMENT DeliveryByDateTime (DateTime) >
<!ELEMENT DeliveryOnDateTime (DateTime) >
<!ELEMENT DeliveryBetweenDateTime (DatetimeRange) >
<!ELEMENT DeliveryTolerances (LowerLimit,UpperLimit) >
<!ATTLIST DeliveryTolerances
    UnitOfMeasureCode CDATA #IMPLIED >
<!ELEMENT TransportInformation (TransportMethodCode,Carrier?,ShipFrom?,ShipTo?,
    CarrierEquipmentCode?,DocumentReference?,TransportName*) >
<!ATTLIST TransportInformation
    StageIdentifier NOTATION (Primary | Secondary | Main | Final)
    #IMPLIED >
<!ELEMENT RequestedPrice (Pricing) >
<!ELEMENT TaxableFlag (#PCDATA) >
<!ELEMENT RequestedDocument (DocumentDeliveryInformation,NumberOfOriginals,
    NumberOfCopies?) >
<!ATTLIST RequestedDocument
    Language CDATA #REQUIRED
    RequestedDocumentType CDATA #REQUIRED >

```


Order Change, continued

```

<!ELEMENT BalanceItemFlag (#PCDATA) >
<!ELEMENT DutyStatus (#PCDATA) >
<!ELEMENT ImportLicenseNeededFlag (#PCDATA) >
<!ELEMENT ImportLicenseAvailableFlag (#PCDATA) >
<!ELEMENT CommissionPayee (PartnerInformation) >
<!ELEMENT SecondWeightFlag (#PCDATA) >
<!ELEMENT CustomerRequestedDeliveryHoldFlag (#PCDATA) >
<!ELEMENT AccompanyingSampleCode (Code) >
<!ELEMENT SpecialFulfillmentRequestCode (Code) >
<!ELEMENT LineItemPurposeCode (Code) >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT Comment (Content | ExternalReference) >

```

Order Change, continued

```

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
          TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DatetimeRange) >

<!ELEMENT MeasurementRange (MinimumMeasurement?,Measurement?,MaximumMeasurement?)
>

<!ELEMENT DatetimeRange (FromDateTime?,SpecifiedDateTime?,ToDateTime?) >

<!ELEMENT AccountHolderName (#PCDATA) >

<!ELEMENT AccountNumber (#PCDATA) >

<!ELEMENT FinancialInstitution (#PCDATA) >

<!ELEMENT FinancialInstitutionDFINumber (#PCDATA) >

<!ELEMENT CreditCardNumber (#PCDATA) >

<!ELEMENT CreditCardType (#PCDATA) >

<!ELEMENT CreditCardExpirationDate (DateTime) >

<!ELEMENT ProductIdentification (ProductIdentifier+,ProductDescription?,
          ProductGradeDescription?) >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
          UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT LowerLimit (#PCDATA) >

<!ELEMENT UpperLimit (#PCDATA) >

<!ELEMENT TransportMethodCode (Code) >

<!ELEMENT ShipFrom (PartnerInformation) >

```

Order Change, continued

```

<!ELEMENT CarrierEquipmentCode (Code) >
<!ELEMENT TransportName (#PCDATA) >
<!ATTLIST TransportName
    TransportEquipmentType CDATA #IMPLIED >
<!ELEMENT Pricing (MonetaryAmount,PriceBasis,PriceReason?) >
<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >
<!ATTLIST DocumentDeliveryInformation
    DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
    Postal) #REQUIRED >
<!ELEMENT NumberOfOriginals (#PCDATA) >
<!ELEMENT NumberOfCopies (#PCDATA) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT TelecomAreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT MinimumMeasurement (#PCDATA) >
<!ATTLIST MinimumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT MaximumMeasurement (#PCDATA) >
<!ATTLIST MaximumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT SpecifiedDateTime (#PCDATA) >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >

```

Order Change, continued

```

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT PriceBasis (Measurement) >

<!ELEMENT PriceReason (#PCDATA) >

```

Order Cancel

```

<!ELEMENT OrderCancel (Header,OrderCancelBody) >

<!ATTLIST OrderCancel
    Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >

<!ELEMENT OrderCancelBody (OrderCancelProperties,OrderCancelPartners) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT OrderCancelProperties (PurchaseOrderNumber,PurchaseOrderIssuedDate,
    RevisionNumber,LanguageCode,MarketPlaceInformation?) >

<!ELEMENT OrderCancelPartners
    (Buyer,SoldTo?,Seller,ShipTo?,Carrier?,BillTo?,Payer?,
    ThirdParty?) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

```

Order Change, continued

```

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT PurchaseOrderNumber (DocumentReference) >

<!ELEMENT PurchaseOrderIssuedDate (DateTime) >

<!ELEMENT RevisionNumber (#PCDATA) >

<!ELEMENT LanguageCode (Code) >

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

<!ELEMENT Buyer (PartnerInformation) >

<!ELEMENT SoldTo (PartnerInformation) >

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT Carrier (PartnerInformation) >

<!ELEMENT BillTo (PartnerInformation) >

<!ELEMENT Payer (PartnerInformation,AccountInformation) >

<!ELEMENT ThirdParty (PartnerInformation) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

```

Order Change, continued

```

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT AccountInformation (AccountHolderName+,((AccountNumber?,
    FinancialInstitution?,FinancialInstitutionDFINumber?) | (
    CreditCardNumber?,CreditCardType?,CreditCardExpirationDate?))) >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

```

Order Change, continued

```

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT AccountHolderName (#PCDATA) >
<!ELEMENT AccountNumber (#PCDATA) >
<!ELEMENT FinancialInstitution (#PCDATA) >

```

Order Change, continued

```

<!ELEMENT FinancialInstitutionDFINumber (#PCDATA) >
<!ELEMENT CreditCardNumber (#PCDATA) >
<!ELEMENT CreditCardType (#PCDATA) >
<!ELEMENT CreditCardExpirationDate (DateTime) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT TelecomAreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >

```

Order Cancel Response

```

<!ELEMENT OrderCancelResponse (Header,OrderCancelResponseBody) >
<!ATTLIST OrderCancelResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT OrderCancelResponseBody (OrderCancelResponseProperties,
    OrderCancelResponsePartners) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >

```


Order Change, continued

```

<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT OrderCancelResponseProperties (PurchaseOrderNumber,
    PurchaseOrderIssuedDate,LanguageCode,RevisionNumber,
    PurchaseOrderResponseReasonCode,PurchaseOrderStatusCode,
    MarketPlaceInformation?) >
<!ELEMENT OrderCancelResponsePartners (Buyer,SoldTo?,Seller,ShipTo?,Carrier?,
    BillTo?,Payer?,ThirdParty?) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PurchaseOrderNumber (#PCDATA) >
<!ELEMENT PurchaseOrderIssuedDate (DateTime) >
<!ELEMENT LanguageCode (Code) >
<!ELEMENT RevisionNumber (#PCDATA) >
<!ELEMENT PurchaseOrderResponseReasonCode (Code) >
<!ELEMENT PurchaseOrderStatusCode (Code) >
<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT SoldTo (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT ShipTo (PartnerInformation) >
<!ELEMENT Carrier (PartnerInformation) >
<!ELEMENT BillTo (PartnerInformation) >

```

Order Change, continued

```

<!ELEMENT Payer (PartnerInformation,AccountInformation) >
<!ELEMENT ThirdParty (PartnerInformation) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >
<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT MarketPlaceIdentifier (#PCDATA) >
<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >
<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >
<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >
<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

```

Order Change, continued

```

<!ELEMENT AccountInformation (AccountHolderName+,(AccountNumber?,
    FinancialInstitution?,FinancialInstitutionDFINumber?) | (
    CreditCardNumber?,CreditCardType?,CreditCardExpirationDate?))) >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
    TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

```

Order Change, continued

```
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT AccountHolderName (#PCDATA) >
<!ELEMENT AccountNumber (#PCDATA) >
<!ELEMENT FinancialInstitution (#PCDATA) >
<!ELEMENT FinancialInstitutionDFINumber (#PCDATA) >
<!ELEMENT CreditCardNumber (#PCDATA) >
<!ELEMENT CreditCardType (#PCDATA) >
<!ELEMENT CreditCardExpirationDate (DateTime) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
```

Order Status Request

```

<!ELEMENT OrderStatusRequest (Header,OrderStatusRequestBody) >
<!ATTLIST OrderStatusRequest
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT OrderStatusRequestBody (OrderStatusRequestProperties,
    OrderStatusRequestPartners,OrderStatusRequestDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT OrderStatusRequestProperties (PurchaseOrderNumber,
    PurchaseOrderIssuedDate,LanguageCode,RevisionNumber,
    MarketPlaceInformation?) >
<!ELEMENT OrderStatusRequestPartners (Buyer,SoldTo?,Seller,ShipTo,Carrier?) >
<!ELEMENT OrderStatusRequestDetails (OrderStatusRequestProductLineItem*) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PurchaseOrderNumber (#PCDATA) >
<!ELEMENT PurchaseOrderIssuedDate (DateTime) >
<!ELEMENT LanguageCode (Code) >
<!ELEMENT RevisionNumber (#PCDATA) >

```

Order Status Request, continued

```

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

<!ELEMENT Buyer (PartnerInformation) >

<!ELEMENT SoldTo (PartnerInformation) >

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT Carrier (PartnerInformation) >

<!ELEMENT OrderStatusRequestProductLineItem (LineItemNumber,
    PurchaseOrderLineItemNumber,SalesOrderIdentifier?,SalesOrderItem?) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

```

Order Status Request, continued

```

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >
<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >
<!ELEMENT LineItemNumber (#PCDATA) >
<!ELEMENT PurchaseOrderLineItemNumber (#PCDATA) >
<!ELEMENT SalesOrderIdentifier (DocumentIdentifier) >
<!ELEMENT SalesOrderItem (#PCDATA) >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationCode (Code) >

```

Order Status Request, continued

```
<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
    TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateime (#PCDATA) >
<!ATTLIST ToDateime
    TimeZone CDATA #IMPLIED >
```


Order Status Response

```

<!ELEMENT OrderStatusResponse (Header,OrderStatusResponseBody) >
<!ATTLIST OrderStatusResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```

Order Status Response, continued

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Order Status Response, continued

```

<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT OrderStatusResponseBody (OrderStatusResponseProperties,
    OrderStatusResponsePartners,OrderStatusResponseDetails) >
<!ELEMENT OrderStatusResponseProperties
(PurchaseOrderNumber,PurchaseOrderTypeCode,
PurchaseOrderIssuedDate,PurchaseOrderResponseReasonCode,LanguageCode,
    CurrencyCode,MarketPlaceInformation?,RevisionNumber,ReleaseNumber?,
    ShipmentTerms?,Routing?,ShipWithPurchaseOrder*,
    FinalDestinationCountryCode,SpecialInstructions*) >
<!ELEMENT PurchaseOrderNumber (#PCDATA) >
<!ELEMENT PurchaseOrderTypeCode (Code) >
<!ELEMENT PurchaseOrderIssuedDate (DateTime) >
<!ELEMENT PurchaseOrderResponseReasonCode (Code) >
<!ELEMENT LanguageCode (Code) >
<!ELEMENT CurrencyCode (Code) >

```

Order Status Response, continued

```

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT RevisionNumber (#PCDATA) >

<!ELEMENT ReleaseNumber (#PCDATA) >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

<!ELEMENT ShipmentTermsCode (Code) >

<!ELEMENT ShipmentTermsLocation (#PCDATA) >

<!ELEMENT Routing (#PCDATA) >

<!ELEMENT ShipWithPurchaseOrder (DocumentReference) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT FinalDestinationCountryCode (Code) >

```

Order Status Response, continued

```

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
    |
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT OrderStatusResponsePartners (Buyer,SoldTo?,Seller,ShipTo,Carrier?) >

<!ELEMENT Buyer (PartnerInformation) >

<!ELEMENT SoldTo (PartnerInformation) >

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT Carrier (PartnerInformation) >

<!ELEMENT OrderStatusResponseDetails (OrderStatusResponseProductLineItem+) >

<!ELEMENT OrderStatusResponseProductLineItem (LineItemNumber,
    PurchaseOrderLineItemNumber,SellerProductInformation,
    BuyerProductInformation?,ManufacturerProductInformation?,
    DocumentReference*,SalesOrderIdentifier,SalesOrderItem,
    ProductQuantity,PackagingQuantity?,LineStatusCode,BatchNumber*,
    CountryOfOriginCode?,(DispatchOnDateTime | DeliveryByDateTime |
    DeliveryOnDateTime | DeliveryBetweenDateTime),ShipTo?,Carrier?,
    ThirdParty?,ShipmentTerms?,TransportInformation*,ConfirmedPrice?,
    Routing?,CustomerRequestedDeliveryHoldFlag?,ShipFrom?,ShipDate?,
    ShippedQuantity?,FinalDestinationCountryCode,SpecialInstructions*,
    ProprietaryShipmentTrackingIdentifier*) >

<!ELEMENT LineItemNumber (#PCDATA) >

<!ELEMENT PurchaseOrderLineItemNumber (#PCDATA) >

<!ELEMENT SellerProductInformation (ProductIdentification) >

<!ELEMENT ProductIdentification (ProductIdentifier?,ProductDescription?,
    ProductGradeDescription?) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

```

Order Status Response, *continued*

```

<!ELEMENT ProductGradeDescription (#PCDATA) >
<!ELEMENT BuyerProductInformation (ProductIdentification) >
<!ELEMENT ManufacturerProductInformation (ProductIdentification) >
<!ELEMENT SalesOrderIdentifier (DocumentIdentifier) >
<!ELEMENT SalesOrderItem (#PCDATA) >
<!ELEMENT ProductQuantity (Measurement) >
<!ELEMENT Measurement (#PCDATA) >
<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT PackagingQuantity (#PCDATA) >
<!ELEMENT LineStatusCode (Code) >
<!ELEMENT BatchNumber (#PCDATA) >
<!ATTLIST BatchNumber
    BatchNumberCreator NOTATION (Seller | Manufacturer) #REQUIRED >
<!ELEMENT CountryOfOriginCode (Code) >
<!ELEMENT DispatchOnDateTime (DateTime) >
<!ELEMENT DeliveryByDateTime (DateTime) >
<!ELEMENT DeliveryOnDateTime (DateTime) >
<!ELEMENT DeliveryBetweenDateTime (DateTimeRange) >
<!ELEMENT ThirdParty (PartnerInformation) >
<!ELEMENT TransportInformation (TransportMethodCode,Carrier?,ShipFrom?,ShipTo?,
    CarrierEquipmentCode?,DocumentReference?,TransportName*) >
<!ATTLIST TransportInformation
    StageIdentifier NOTATION (Primary | Secondary | Main | Final)
    #IMPLIED >
<!ELEMENT TransportMethodCode (Code) >
<!ELEMENT ShipFrom (PartnerInformation) >
<!ELEMENT CarrierEquipmentCode (Code) >

```

Order Status Response, continued

```
<!ELEMENT TransportName (#PCDATA) >
<!ATTLIST TransportName
    TransportEquipmentType CDATA #IMPLIED >
<!ELEMENT ConfirmedPrice (Pricing) >
<!ELEMENT Pricing (MonetaryAmount,PriceBasis,PriceReason?) >
<!ELEMENT MonetaryAmount (#PCDATA) >
<!ATTLIST MonetaryAmount
    CurrencyCode CDATA #REQUIRED >
<!ELEMENT PriceBasis (Measurement) >
<!ELEMENT PriceReason (#PCDATA) >
<!ELEMENT CustomerRequestedDeliveryHoldFlag (#PCDATA) >
<!ELEMENT ShipDate (DateTime) >
<!ELEMENT ShippedQuantity (Measurement) >
<!ELEMENT ProprietaryShipmentTrackingIdentifier (#PCDATA) >
```

Logistics

Load Tender Motor

```

<!ELEMENT LoadTenderMotor (Header,LoadTenderMotorBody) >

<!ATTLIST LoadTenderMotor
    Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >

<!ELEMENT LoadTenderMotorBody (LoadTenderMotorProperties,LoadTenderMotorPartners,
    LoadTenderMotorDetails) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT LoadTenderMotorProperties (LoadTenderNumber,ShipmentMethodofPayment,
    TransportationMethodCode,Purpose,LanguageCode?,CurrencyCode+,
    MarketplaceInformation?,ReleaseNumber?,ReferenceInformation*,
    ContractIdentifier*,SpecialInstructions*,ShipmentTerms,
    RespondByDateTime?) >

<!ELEMENT LoadTenderMotorPartners (LogisticsShipper,LogisticsBillTo,
    LogisticsConsignee,LogisticsShipFrom?,LogisticsCarrier?,
    LogisticsCareOfParty?,LogisticsShipTo?) >

<!ELEMENT LoadTenderMotorDetails (EquipmentDetails+,LoadTenderMotorLineItem+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT LoadTenderNumber (DocumentIdentifier,LoadTenderIssuedDateTime?) >

```


Load Tender Motor, continued

```

<!ELEMENT ShipmentMethodofPayment (#PCDATA) >
<!ELEMENT TransportationMethodCode (#PCDATA) >
<!ELEMENT Purpose (#PCDATA) >
<!ELEMENT LanguageCode (Code) >
<!ELEMENT CurrencyCode (Code) >
<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >
<!ELEMENT ReleaseNumber (#PCDATA) >
<!ELEMENT ReferenceInformation (DocumentReference) >
<!ELEMENT ContractIdentifier (DocumentIdentifier) >
<!ELEMENT SpecialInstructions (#PCDATA) >
<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
    |
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >
<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >
<!ELEMENT RespondByDateTime (DateTime) >
<!ELEMENT LogisticsShipper (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsBillTo (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsConsignee (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsShipFrom (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsCarrier (PartnerInformation?,(StandardCarrierAlphaCode |
Code)?) >
<!ELEMENT LogisticsCareOfParty (ShippingInformation) >
<!ELEMENT LogisticsShipTo (ShippingInformation,RequestedDocument*) >
<!ELEMENT EquipmentDetails (EquipmentIdentifier?,EquipmentLoadEmptyStatus?,
    StatusDetails*) >

```

Load Tender Motor, continued

```

<!ELEMENT LoadTenderMotorLineItem (LineNumber+,EquipmentDetailsLineNumber*,(
    LadingIdentification?,ProductIdentification?)+,PercentActive?,
    ReferenceInformation*,TransportTemperature?,ProductQuantity,
    NumberPackagingUnits?,GrossVolume?,NetVolume?,NetWeight?,GrossWeight?,
    CountryOfOrigin?,(RequestedDeliveryByDateTime |
    RequestedDeliveryOnDateTime),(RequestedPickupByDateTime? |
    RequestedPickupDateTime?),ContractIdentifier?,ControlledTemperature?,
    Label*,QuoteIdentifier,ShipmentTerms?,LogisticsShipFrom?,
    LogisticsShipTo?,HazardousGoods*) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LoadTenderIssuedDateTime (DateTime) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

```

Load Tender Motor, continued

```

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ShipmentTermsCode (Code) >

<!ELEMENT ShipmentTermsLocation (#PCDATA) >

<!ELEMENT ShippingInformation (LocationCode | PartnerInformation) >

<!ATTLIST ShippingInformation
    LocationPointType CDATA #REQUIRED >

<!ELEMENT RequestedDocument (DocumentDeliveryInformation,NumberOfOriginals,
    NumberOfCopies?) >

<!ATTLIST RequestedDocument
    Language CDATA #REQUIRED
    RequestedDocumentType CDATA #REQUIRED >

<!ELEMENT StandardCarrierAlphaCode (#PCDATA) >

<!ELEMENT EquipmentIdentifier (#PCDATA) >

<!ELEMENT EquipmentLoadEmptyStatus (#PCDATA) >

<!ATTLIST EquipmentLoadEmptyStatus
    LoadIndicatorCode NOTATION (Loaded | Empty | Unknown | Partial)
    #IMPLIED >

```

Load Tender Motor, continued

```

<!ELEMENT StatusDetails (ShipmentStatusCode?,ShipmentStatusReasonCode?,
    ShipmentStatusDateTime?,LocationCode?,SpecialInstructions*) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT EquipmentDetailsLineNumber (#PCDATA) >

<!ELEMENT LadingIdentification (Code) >

<!ATTLIST LadingIdentification
    LadingIdentificationQualifier NOTATION (NMFC | UN-NA | STCC | EAN |
    ODETTE | HarmonizedSystemBasedScheduleB | ScheduleB | ShipperDefined
    |
    GlobalMaterialIdentifier) #IMPLIED >

<!ELEMENT ProductIdentification (ProductIdentifier+,ProductDescription?,
    ProductGradeDescription?) >

<!ELEMENT PercentActive (#PCDATA) >

<!ELEMENT TransportTemperature (MeasurementRange) >

<!ELEMENT ProductQuantity (Measurement) >

<!ELEMENT NumberPackagingUnits (#PCDATA) >

<!ELEMENT GrossVolume (Measurement) >

<!ELEMENT NetVolume (Measurement) >

<!ELEMENT NetWeight (Measurement) >

<!ELEMENT GrossWeight (Measurement) >

<!ELEMENT CountryOfOrigin (#PCDATA) >

<!ELEMENT RequestedDeliveryByDateTime (#PCDATA) >

<!ELEMENT RequestedDeliveryOnDateTime (#PCDATA) >

<!ELEMENT RequestedPickupByDateTime (DateTime) >

<!ELEMENT RequestedPickupDateTime (DateTime) >

<!ELEMENT ControlledTemperature (Measurement) >

<!ELEMENT Label (#PCDATA) >

<!ELEMENT QuoteIdentifier (#PCDATA) >

```

Load Tender Motor, continued

```

<!ELEMENT HazardousGoods (HazardousShipment,HazardousInformation*,
    HazardousClassification,HazardousCanadian?) >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
    TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DatetimeRange) >

```

Load Tender Motor, continued

```

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >

<!ATTLIST DocumentDeliveryInformation
    DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
    Postal) #REQUIRED >

<!ELEMENT NumberOfOriginals (#PCDATA) >

<!ELEMENT NumberOfCopies (#PCDATA) >

<!ELEMENT ShipmentStatusCode (Code) >

<!ELEMENT ShipmentStatusReasonCode (Code) >

<!ELEMENT ShipmentStatusDateTime (DateTime) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT MeasurementRange (MinimumMeasurement?,Measurement?,MaximumMeasurement?)
>

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT HazardousShipment ((LadingIdentification? |
    UnitedNationsNorthAmericaIdentifier?),ProductIdentification?,
    ProductQuantity,CompartmentIdentifier?,PackingGroupCode?,
    ResidueIndicator?,EmergencyResponseContact+) >

<!ELEMENT HazardousInformation (CanadianShippingName*,InternationalShippingName*,
    USDomesticShippingName*,OT55Flag?,HazardousZoneCode?,
    RadioactiveMaterialActivityQuantity?,

NotOtherwiseSpecifiedRequirements?,HazardousTransborderRequirements*,

EmergencyScheduleCode?,HazardousEPARequirements*,SpecialInstructions*) >

```

Load Tender Motor, continued

```

<!ELEMENT HazardousClassification
(HazardousClassPrimary?,HazardousClassSecondary?,
FlashpointTemperature?,EmergencyTemperature?,ControlledTemperature?,
HazardousPlacardNotation*,HazardousReportableQuantityCode?) >

<!ELEMENT HazardousCanadian (EmergencyResponsePlanNumber?,
SpecialCommodityIndicator?,HazardousNotation?,NetExplosiveQuantity?,
SubsidiaryRiskIndicator?,EmergencyResponseContact*) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT DatetimeRange (FromDateTime?,SpecifiedDateTime?,ToDateTime?) >

<!ELEMENT MinimumMeasurement (#PCDATA) >

<!ATTLIST MinimumMeasurement
UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT MaximumMeasurement (#PCDATA) >

<!ATTLIST MaximumMeasurement
UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT UnitedNationsNorthAmericaIdentifier (#PCDATA) >

<!ELEMENT CompartmentIdentifier (#PCDATA) >

<!ELEMENT PackingGroupCode (Code) >

<!ELEMENT ResidueIndicator (#PCDATA) >

<!ELEMENT EmergencyResponseContact (ContactInformation) >

<!ELEMENT CanadianShippingName (#PCDATA) >

<!ELEMENT InternationalShippingName (#PCDATA) >

<!ELEMENT USDomesticShippingName (#PCDATA) >

<!ELEMENT OT55Flag (#PCDATA) >

<!ELEMENT HazardousZoneCode (Code) >

```

Load Tender Motor, *continued*

```

<!ELEMENT RadioactiveMaterialActivityQuantity (Measurement) >
<!ELEMENT NotOtherwiseSpecifiedRequirements (#PCDATA) >
<!ATTLIST NotOtherwiseSpecifiedRequirements
          NotOtherwiseSpecifiedFlagCode ID #REQUIRED >
<!ELEMENT HazardousTransborderRequirements (#PCDATA) >
<!ELEMENT EmergencyScheduleCode (Code) >
<!ELEMENT HazardousEPARequirements (EPAWasteStreamNumberCode?,
          WasteCharacteristicsCode?) >
<!ELEMENT HazardousClassPrimary (#PCDATA) >
<!ELEMENT HazardousClassSecondary (#PCDATA) >
<!ELEMENT FlashpointTemperature (Measurement) >
<!ELEMENT EmergencyTemperature (Measurement) >
<!ELEMENT HazardousPlacardNotation (#PCDATA) >
<!ELEMENT HazardousReportableQuantityCode (Code) >
<!ATTLIST HazardousReportableQuantityCode
          ReportableQuantityQualifier CDATA #FIXED "RQ"
          >
<!ELEMENT EmergencyResponsePlanNumber (#PCDATA) >
<!ELEMENT SpecialCommodityIndicator (#PCDATA) >
<!ATTLIST SpecialCommodityIndicator
          SpecialCommodityIndicatorCode ID #REQUIRED >
<!ELEMENT HazardousNotation (#PCDATA) >
<!ELEMENT NetExplosiveQuantity (Measurement) >
<!ELEMENT SubsidiaryRiskIndicator (#PCDATA) >
<!ATTLIST SubsidiaryRiskIndicator
          SubsidiaryRiskIndicatorCode CDATA #REQUIRED >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
          TimeZone CDATA #IMPLIED >

```


Load Tender Motor, *continued*

<!ELEMENT SpecifiedDateTime (#PCDATA) >

<!ELEMENT ToDateTime (#PCDATA) >

<!ATTLIST ToDateTime
 TimeZone CDATA #IMPLIED >

<!ELEMENT EPAWasteStreamNumberCode (Code) >

<!ELEMENT WasteCharacteristicsCode (Code) >

Load Tender Rail

```

<!ELEMENT LoadTenderRail (Header,LoadTenderRailBody) >
<!ATTLIST LoadTenderRail
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT LoadTenderRailBody (LoadTenderRailProperties,LoadTenderRailPartners,
    LoadTenderRailDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT LoadTenderRailProperties (LoadTenderNumber,ShipmentReleaseDate,
    ShipmentMethodofPayment,TransportationMethodCode,
    MarketPlaceInformation?,Purpose,ShipmentQualifier?,LanguageCode?,
    CurrencyCode+,ReferenceInformation*,ContractIdentifier*,
    SpecialInstructions*,ShipmentTerms,RespondByDateTime?,
    RoutingInstructions*,CustomsInformation*) >
<!ELEMENT LoadTenderRailPartners (LogisticsShipper,LogisticsBillTo,
    LogisticsConsignee,LogisticsShipFrom?,LogisticsForwarder?,
    LogisticsCarrier?,LogisticsCareOfParty?,LogisticsShipTo?,(
    ShippingInformation,RequestedDocument)*) >
<!ELEMENT LoadTenderRailDetails (EquipmentDetails+,LoadTenderRailLineItem+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT LoadTenderNumber (DocumentIdentifier,LoadTenderIssuedDateTime?) >
<!ELEMENT ShipmentReleaseDate (DateTime) >

```

Load Tender Rail, continued

```

<!ELEMENT ShipmentMethodofPayment (#PCDATA) >

<!ELEMENT TransportationMethodCode (Code) >

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

<!ELEMENT Purpose (#PCDATA) >

<!ELEMENT ShipmentQualifier (#PCDATA) >

<!ATTLIST ShipmentQualifier
    ShipmentTypeCode NOTATION (MasterBillForEmptyNonRevenue |
    FirstBillSplitShipment | SubordinateBillSplitShipment |
    MasterBillRevenueEmpty | IndividualShipment | ConsolidatedShipment |
    EmptyNonRevenue | StopOffShipment | SwitchWaybill | MasterBill |
    SubMasterBill | EmptySwitchBill) #IMPLIED >

<!ELEMENT LanguageCode (Code) >

<!ELEMENT CurrencyCode (Code) >

<!ELEMENT ReferenceInformation (DocumentReference) >

<!ELEMENT ContractIdentifier (DocumentReference) >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
    |
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

<!ELEMENT RespondByDateTime (DateTime) >

<!ELEMENT RoutingInstructions (Comment) >

<!ELEMENT CustomsInformation (CountryOfOrigin?,FinalDestinationCountryCode?,
    BondedWarehouseStatus?,BondedWarehouseRelease?,DutyDrawback?,
    USgoodsReturned?,ExportImportRequiredDocument?,TransportInBond?) >

<!ELEMENT LogisticsShipper (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsBillTo (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsConsignee (ShippingInformation,RequestedDocument*) >

```

Load Tender Rail, *continued*

```

<!ELEMENT LogisticsShipFrom (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsForwarder (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsCarrier (PartnerInformation | (StandardCarrierAlphaCode |
Code)?) >
<!ELEMENT LogisticsCareOfParty (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsShipTo (ShippingInformation,RequestedDocument*) >
<!ELEMENT ShippingInformation (LocationCode | PartnerInformation) >
<!ATTLIST ShippingInformation
    LocationPointType CDATA #REQUIRED >
<!ELEMENT RequestedDocument (DocumentDeliveryInformation,NumberOfOriginals,
    NumberOfCopies?) >
<!ATTLIST RequestedDocument
    Language CDATA #REQUIRED
    RequestedDocumentType CDATA #REQUIRED >
<!ELEMENT EquipmentDetails (LineNumber+,LineItemLineNumber*,EquipmentID?,
    EquipmentOwnership?,CarrierEquipment?,Height?,Width?,Length?,
    NetWeight?,TareWeight?,GrossWeight?,NetVolume?,GrossVolume?,
    SealNumber*,EquipmentLoadEmptyStatus?) >
<!ELEMENT LoadTenderRailLineItem (LineNumber+,EquipmentDetailsLineNumber*,(
    LadingIdentification?,ProductIdentification?)+,ProductQuantity,
    PalletQuantityInformation?,PercentActive?,ReferenceInformation*,
    TransportTemperature?,PackagingInformation*,GrossVolume?,NetVolume?,
    GrossWeight?,NetWeight?,CountryOfOrigin?,(
    RequestedDeliveryByDateTime | RequestedDeliveryOnDateTime),(
    RequestedPickupByDateTime | RequestedPickupOnDateTime)?,
    ContractIdentifier?,ControlledTemperature?,Label*,QuoteIdentifier?,
    HazardousGoods*) >
<!ELEMENT PartnerName (#PCDATA)>
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

```

Load Tender Rail, continued

```

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LoadTenderIssuedDateTime (DateTime) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT MarketPlaceIdentifier (Code) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (Code) >

<!ELEMENT MarketPlaceBuyerIdentifier (Code) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber | PostingNumber)
    #REQUIRED >

<!ELEMENT ShipmentTermsCode (Code) >

<!ELEMENT ShipmentTermsLocation (#PCDATA) >

```

Load Tender Rail, *continued*

```

<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT CountryOfOrigin (Code) >
<!ELEMENT FinalDestinationCountryCode (#PCDATA) >
<!ELEMENT BondedWarehouseStatus (#PCDATA) >
<!ELEMENT BondedWarehouseRelease (#PCDATA) >
<!ELEMENT DutyDrawback (#PCDATA) >
<!ELEMENT USgoodsReturned (#PCDATA) >
<!ELEMENT ExportImportRequiredDocument (RequestedDocument,
    RequiredDocumentEffectiveDates,Comment*) >
<!ELEMENT TransportInBond (#PCDATA) >
<!ELEMENT StandardCarrierAlphaCode (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >
<!ATTLIST DocumentDeliveryInformation
    DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
    Postal) #REQUIRED >
<!ELEMENT NumberOfOriginals (#PCDATA) >
<!ELEMENT NumberOfCopies (#PCDATA) >
<!ELEMENT LineNumber (#PCDATA) >
<!ELEMENT LineItemLineNumber (#PCDATA) >
<!ELEMENT EquipmentID (#PCDATA) >
<!ELEMENT EquipmentOwnership (#PCDATA) >
<!ELEMENT CarrierEquipment (#PCDATA) >
<!ELEMENT Height (MeasurementRange) >
<!ELEMENT Width (MeasurementRange) >
<!ELEMENT Length (MeasurementRange) >
<!ELEMENT NetWeight (Measurement) >

```

Load Tender Rail, *continued*

```

<!ELEMENT TareWeight (Measurement) >
<!ELEMENT GrossWeight (Measurement) >
<!ELEMENT NetVolume (Measurement) >
<!ELEMENT GrossVolume (Measurement) >
<!ELEMENT SealNumber (#PCDATA) >
<!ELEMENT EquipmentLoadEmptyStatus (#PCDATA) >
<!ATTLIST EquipmentLoadEmptyStatus
    LoadIndicatorCode NOTATION (Loaded | Empty | Unknown | Partial)
    #IMPLIED >
<!ELEMENT EquipmentDetailsLineNumber (#PCDATA) >
<!ELEMENT LadingIdentification (Code) >
<!ATTLIST LadingIdentification
    LadingIdentificationQualifier NOTATION (NMFC | UN-NA | STCC | EAN |
    ODETTE | HarmonizedSystemBasedScheduleB | ScheduleB | ShipperDefined
    |
    GlobalMaterialIdentifier) #IMPLIED >
<!ELEMENT ProductIdentification (ProductIdentifier?,ProductDescription?,
    ProductGradeDescription?) >
<!ELEMENT ProductQuantity (Measurement) >
<!ELEMENT PalletQuantityInformation
    (NumberFullPallets?,PalletPackageCountQuantity?,
    LoosePackageCountQuantity?) >
<!ELEMENT PercentActive (#PCDATA) >
<!ELEMENT TransportTemperature (MeasurementRange) >
<!ELEMENT PackagingInformation (ProductIdentification,PackagingQuantity?,
    PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
    PackagingInformation*) >
<!ELEMENT RequestedDeliveryByDateTime (DateTime) >
<!ELEMENT RequestedDeliveryOnDateTime (DateTime) >
<!ELEMENT RequestedPickupByDateTime (DateTime) >
<!ELEMENT RequestedPickupOnDateTime (DateTime) >

```

Load Tender Rail, *continued*

```

<!ELEMENT ControlledTemperature (Measurement) >
<!ELEMENT Label (#PCDATA) >
<!ELEMENT QuoteIdentifier (#PCDATA) >
<!ELEMENT HazardousGoods (HazardousShipment,HazardousInformation*,
    HazardousClassification,HazardousCanadian?) >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
    TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >

```


Load Tender Rail, *continued*

```

<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT RequiredDocumentEffectiveDates (DateTimeRange) >
<!ELEMENT MeasurementRange (MinimumMeasurement?,Measurement?,MaximumMeasurement?)
>
<!ELEMENT Measurement (#PCDATA) >
<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT ProductIdentifier (#PCDATA) >
<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >
<!ELEMENT ProductDescription (#PCDATA) >
<!ELEMENT ProductGradeDescription (#PCDATA) >
<!ELEMENT NumberFullPallets (#PCDATA) >
<!ELEMENT PalletPackageCountQuantity (#PCDATA) >
<!ELEMENT LoosePackageCountQuantity (#PCDATA) >
<!ELEMENT PackagingQuantity (#PCDATA) >
<!ELEMENT PackagingType (#PCDATA) >
<!ELEMENT PackagingWeight (Measurement) >
<!ELEMENT PackagingLabel (#PCDATA) >
<!ELEMENT HazardousShipment ((LadingIdentification? |
UnitedNationsNorthAmericaId?),
    ProductIdentification?,ProductQuantity,CompartmentId?,
    PackingGroupCode?,ResidueIndicator?,EmergencyResponseContact+) >

```

Load Tender Rail, continued

```

<!ELEMENT HazardousInformation (CanadianShippingName*,InternationalShippingName*,
    USDomesticShippingName*,OT55Flag?,HazardousZoneCode?,
    RadioactiveMaterialActivityQuantity?,
    NotOtherwiseSpecifiedRequirements?,HazardousTransborderRequirements*,
    EmergencyScheduleCode?,HazardousEPARrequirements*,SpecialInstructions*) >

<!ELEMENT HazardousClassification
(HazardousClassPrimary?,HazardousClassSecondary?,
    FlashpointTemperature?,EmergencyTemperature?,ControlledTemperature?,
    HazardousPlacardNotation*,HazardousReportableQuantityCode?) >

<!ELEMENT HazardousCanadian (EmergencyResponsePlanNumber?,
    SpecialCommodityIndicator?,HazardousNotation?,NetExplosiveQuantity?,
    SubsidiaryRiskIndicator?,EmergencyResponseContact*) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >

<!ELEMENT MinimumMeasurement (#PCDATA) >

<!ATTLIST MinimumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT MaximumMeasurement (#PCDATA) >

<!ATTLIST MaximumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT UnitedNationsNorthAmericaId (#PCDATA) >

<!ELEMENT CompartmentId (#PCDATA) >

<!ELEMENT PackingGroupCode (Code) >

<!ELEMENT ResidueIndicator (#PCDATA) >

<!ELEMENT EmergencyResponseContact (ContactInformation) >

<!ELEMENT CanadianShippingName (#PCDATA) >

<!ELEMENT InternationalShippingName (#PCDATA) >

<!ELEMENT USDomesticShippingName (#PCDATA) >

```

Load Tender Rail, *continued*

```

<!ELEMENT OT55Flag (#PCDATA) >

<!ELEMENT HazardousZoneCode (Code) >

<!ELEMENT RadioactiveMaterialActivityQuantity (Measurement) >

<!ELEMENT NotOtherwiseSpecifiedRequirements (#PCDATA) >

<!ATTLIST NotOtherwiseSpecifiedRequirements
    NotOtherwiseSpecifiedFlagCode ID #REQUIRED >

<!ELEMENT HazardousTransborderRequirements (#PCDATA) >

<!ELEMENT EmergencyScheduleCode (Code) >

<!ELEMENT HazardousEPAREquirements (EPAWasteStreamNumberCode?,
    WasteCharacteristicsCode?) >

<!ELEMENT HazardousClassPrimary (#PCDATA) >

<!ELEMENT HazardousClassSecondary (#PCDATA) >

<!ELEMENT FlashpointTemperature (Measurement) >

<!ELEMENT EmergencyTemperature (Measurement) >

<!ELEMENT HazardousPlacardNotation (#PCDATA) >

<!ELEMENT HazardousReportableQuantityCode (Code) >

<!ATTLIST HazardousReportableQuantityCode
    ReportableQuantityQualifier CDATA #FIXED "RQ"
    >

<!ELEMENT EmergencyResponsePlanNumber (#PCDATA) >

<!ELEMENT SpecialCommodityIndicator (#PCDATA) >

<!ATTLIST SpecialCommodityIndicator
    SpecialCommodityIndicatorCode ID #REQUIRED >

<!ELEMENT HazardousNotation (#PCDATA) >

<!ELEMENT NetExplosiveQuantity (Measurement) >

<!ELEMENT SubsidiaryRiskIndicator (#PCDATA) >

<!ATTLIST SubsidiaryRiskIndicator
    SubsidiaryRiskIndicatorCode CDATA #REQUIRED >

<!ELEMENT FromDateTime (#PCDATA) >

```

Load Tender Rail, *continued*

```
<!ATTLIST FromDateTime  
    TimeZone CDATA #IMPLIED >
```

```
<!ELEMENT ToDateTime (#PCDATA) >
```

```
<!ATTLIST ToDateTime  
    TimeZone CDATA #IMPLIED >
```

```
<!ELEMENT EPAWasteStreamNumberCode (Code) >
```

```
<!ELEMENT WasteCharacteristicsCode (Code) >
```

Load Tender Ocean

```
<!ELEMENT LoadTenderOcean (Header,LoadTenderOceanBody) >
<!ATTLIST LoadTenderOcean
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT LoadTenderOceanBody (LoadTenderOceanProperties,LoadTenderOceanPartners,
    LoadTenderOceanDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT LoadTenderOceanProperties (LoadTenderNumber,ShipmentDateReference,
    ShipmentMethodofPayment,TransportationMethod,Purpose,LanguageCode,
    CurrencyCode,MarketPlaceInformation?,ReleaseNumber?,
    ReferenceInformation*,ContractIdentifier*,SpecialInstructions*,
    ShipmentTerms,RespondByDateTime?,CustomsInformation*,
    CountryOfUltimateDestination,PaymentTerms?,LetterOfCreditInformation?,
    EquipmentLoadEmptyStatus?,ConsolidationType?) >
```

Load Tender Ocean, continued

```

<!ELEMENT LoadTenderOceanPartners (LogisticsShipper,LogisticsBillTo,
    LogisticsConsignee,LogisticsShipFrom?,LogisticsForwarder?,
    LogisticsCarrier?,LogisticsCareOfParty?,LogisticsShipTo?,
    LetterOfCreditBank?,RequestedPortOfExit?,RequestedPortOfDischarge?,
    InlandDestinationPoint?,(ShippingInformation,RequestedDocument*)*) >

<!ELEMENT LoadTenderOceanDetails (EquipmentDetails+,LoadTenderOceanLineItem+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT LoadTenderNumber (DocumentIdentifier,LoadTenderIssuedDateTime?) >

<!ELEMENT ShipmentDateReference (RequestedShipDateTime,ScheduledShipDateTime?,
    ScheduledPackDateTime?,(RequestedDeliveryByDateTime |
    RequestedDeliveryOnDateTime?), (RequestedPickupByDateTime |
    RequestedPickupOnDateTime?) >

<!ELEMENT ShipmentMethodofPayment (#PCDATA) >

<!ELEMENT TransportationMethod (#PCDATA) >

<!ELEMENT Purpose (#PCDATA) >

<!ELEMENT LanguageCode (Code) >

<!ELEMENT CurrencyCode (Code) >

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

<!ELEMENT ReleaseNumber (#PCDATA) >

<!ELEMENT ReferenceInformation (DocumentReference) >

<!ELEMENT ContractIdentifier (DocumentIdentifier) >

<!ELEMENT SpecialInstructions (#PCDATA) >

```

Load Tender Ocean, continued

```

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
    |
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

<!ELEMENT RespondByDateTime (DateTime) >

<!ELEMENT CustomsInformation (CountryOfOrigin?,BondedWarehouseStatus?,
    FinalDestinationCountryCode?,BondedWarehouseRelease?,DutyDrawback?,
    USgoodsReturned?,ExportImportRequiredDocument*,TransportInBond?) >

<!ELEMENT CountryOfUltimateDestination (#PCDATA) >

<!ELEMENT PaymentTerms (TermsOfSale,PaymentTermsBasisDateCode?,
    PaymentTermsBasisDate?,Discounts?,Deferred?,Penalty?) >

<!ELEMENT LetterOfCreditInformation
(DocumentReference,AdvisingBank,MonetaryAmount,
    PaymentTerms?,LetterOfCreditQuantity?,ExchangeRate?,
    LetterOfCreditVoyageDateTime?,LetterOfCreditNegotiatedDateTime?) >

<!ELEMENT EquipmentLoadEmptyStatus (#PCDATA) >

<!ATTLIST EquipmentLoadEmptyStatus
    LoadIndicatorCode NOTATION (Loaded | Empty | Unknown | Partial)
    #IMPLIED >

<!ELEMENT ConsolidationType (#PCDATA) >

<!ELEMENT LogisticsShipper (ShippingInformation,RequestedDocument) >

<!ELEMENT LogisticsBillTo (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsConsignee (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsShipFrom (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsForwarder (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsCarrier (PartnerInformation | (StandardCarrierAlphaCode |
Code)?) >

<!ELEMENT LogisticsCareOfParty (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsShipTo (ShippingInformation,RequestedDocument*) >

<!ELEMENT LetterOfCreditBank (PartnerInformation,RequestedDocument*) >

```

Load Tender Ocean, continued

```

<!ELEMENT RequestedPortOfExit (LocationCode) >

<!ELEMENT RequestedPortOfDischarge (LocationCode) >

<!ELEMENT InlandDestinationPoint (LocationCode) >

<!ELEMENT ShippingInformation (LocationCode | PartnerInformation) >

<!ATTLIST ShippingInformation
  LocationPointType CDATA #REQUIRED >

<!ELEMENT RequestedDocument (DocumentDeliveryInformation?,NumberOfOriginals,
  NumberOfCopies?) >

<!ATTLIST RequestedDocument
  Language CDATA #REQUIRED
  RequestedDocumentType CDATA #REQUIRED >

<!ELEMENT EquipmentDetails (LineNumber+,LineItemLineNumber*,EquipmentID?,
  EquipmentOwnership?,CarrierEquipment?,Height?,Width?,Length?,
  NetWeight?,TareWeight?,GrossWeight?,NetVolume?,GrossVolume?,
  SealNumber*,EquipmentLoadEmptyStatus?) >

<!ELEMENT LoadTenderOceanLineItem (LineNumber+,EquipmentDetailsLineNumber*,(
  LadingIdentification?,ProductIdentification?)+,PercentActive?,
  ReferenceInformation*,Comment*,TransportTemperature?,
  EmergencyTemperature?,ProductQuantity,PalletQuantityInformation?,
  PackagingInformation*,GrossVolume?,NetVolume?,GrossWeight?,NetWeight?,
  LineItemTotal?,LetterOfCreditInformation?,Label*,CustomsInformation*,(
  RequestedDeliveryByDateTime | RequestedDeliveryOnDateTime),(
  RequestedPickupByDateTime | RequestedPickupOnDateTime)?,
  ContractIdentifier?,ControlledTemperature?,QuoteIdentifier?,
  ShipmentTerms,LogisticsShipFrom?,LogisticsShipTo?,HazardousGoods*,
  LoadTenderOceanSubLineItem*) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
  PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
  BillToParty | Consignee | NotifyParty | CareOfParty |
  UltimateConsignee | FreightForwarder | TransportationBroker |
  CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
  |
  SoldTo | Inspection | ShipTo | Buyer | Seller | AdvisingBank)
  #REQUIRED >

```


Load Tender Ocean, continued

```

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LoadTenderIssuedDateTime (DateTime) >

<!ELEMENT RequestedShipDateTime (DateTime) >

<!ELEMENT ScheduledShipDateTime (DateTime) >

<!ELEMENT ScheduledPackDateTime (DateTime) >

<!ELEMENT RequestedDeliveryByDateTime (DateTime) >

<!ELEMENT RequestedDeliveryOnDateTime (DateTime) >

<!ELEMENT RequestedPickupByDateTime (DateTime) >

<!ELEMENT RequestedPickupOnDateTime (DateTime) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

```

Load Tender Ocean, continued

```

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber | PostingNumber)
    #REQUIRED >

<!ELEMENT ShipmentTermsCode (Code) >

<!ELEMENT ShipmentTermsLocation (#PCDATA) >

<!ELEMENT CountryOfOrigin (#PCDATA) >

<!ELEMENT BondedWarehouseStatus (#PCDATA) >

<!ELEMENT FinalDestinationCountryCode (#PCDATA) >

<!ELEMENT BondedWarehouseRelease (#PCDATA) >

<!ELEMENT DutyDrawback (#PCDATA) >

<!ELEMENT USgoodsReturned (#PCDATA) >

<!ELEMENT ExportImportRequiredDocument (RequestedDocument,
    RequiredDocumentEffectiveDates,Comment*) >

<!ATTLIST ExportImportRequiredDocument
    ExportImportDocumentType CDATA #REQUIRED >

<!ELEMENT TransportInBond (#PCDATA) >

<!ELEMENT TermsOfSale (#PCDATA) >

<!ELEMENT PaymentTermsBasisDateCode (Code) >

<!ELEMENT PaymentTermsBasisDate (DateTime) >

<!ELEMENT Discounts (PercentDiscount,DiscountAmount,(DaysDue | DiscountsDueDate)+)
>

<!ELEMENT Deferred (DeferredAmount,DeferredDueDate,PercentDeferredPayable) >

<!ELEMENT Penalty (#PCDATA) >

<!ELEMENT AdvisingBank (PartnerInformation) >

<!ELEMENT MonetaryAmount (#PCDATA) >

```

Load Tender Ocean, continued

```

<!ATTLIST MonetaryAmount
          CurrencyCode CDATA #REQUIRED >

<!ELEMENT LetterOfCreditQuantity (MeasurementRange) >

<!ELEMENT ExchangeRate (#PCDATA) >

<!ELEMENT LetterOfCreditVoyageDateTime (DateTimeRange) >

<!ELEMENT LetterOfCreditNegotiatedDateTime (DateTimeRange) >

<!ELEMENT StandardCarrierAlphaCode (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >

<!ATTLIST DocumentDeliveryInformation
          DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
          Postal) #REQUIRED >

<!ELEMENT NumberOfOriginals (#PCDATA) >

<!ELEMENT NumberOfCopies (#PCDATA) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT LineItemLineNumber (#PCDATA) >

<!ELEMENT EquipmentID (AssociatedEquipment*) >

<!ELEMENT EquipmentOwnership (Code) >

<!ELEMENT CarrierEquipment (MeasurementRange*) >

<!ELEMENT Height (MeasurementRange) >

<!ELEMENT Width (MeasurementRange) >

<!ELEMENT Length (MeasurementRange) >

<!ELEMENT NetWeight (Measurement) >

<!ELEMENT TareWeight (Measurement) >

<!ELEMENT GrossWeight (Measurement) >

<!ELEMENT NetVolume (Measurement) >

<!ELEMENT GrossVolume (Measurement) >

```

Load Tender Ocean, continued

```

<!ELEMENT SealNumber (#PCDATA) >

<!ELEMENT EquipmentDetailsLineNumber (#PCDATA) >

<!ELEMENT LadingIdentification (Code) >

<!ATTLIST LadingIdentification
    LadingIdentificationQualifier NOTATION (NMFC | UN-NA | STCC | EAN |
    ODETTE | HarmonizedSystemBasedScheduleB | ScheduleB | ShipperDefined
    |
    GlobalMaterialIdentifier) #IMPLIED >

<!ELEMENT ProductIdentification (ProductIdentifier?,ProductDescription?,
    ProductGradeDescription?) >

<!ELEMENT PercentActive (#PCDATA) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TransportTemperature (MeasurementRange?) >

<!ELEMENT EmergencyTemperature (Measurement) >

<!ELEMENT ProductQuantity (Measurement) >

<!ELEMENT PalletQuantityInformation
(NumberFullPallets?,PalletPackageCountQuantity?,
    LoosePackageCountQuantity?) >

<!ELEMENT PackagingInformation (ProductIdentification,PackagingQuantity?,
PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
    PackagingInformation*) >

<!ELEMENT LineItemTotal (#PCDATA) >

<!ELEMENT Label (#PCDATA) >

<!ELEMENT ControlledTemperature (Measurement) >

<!ELEMENT QuoteIdentifier (#PCDATA) >

<!ELEMENT HazardousGoods (HazardousShipment,HazardousInformation*,
    HazardousClassification,HazardousCanadian?) >

<!ELEMENT LoadTenderOceanSubLineItem (SubLineItemNumber,
    ManufacturingIdentificationDetails?,GrossVolume?,NetVolume?,
    GrossWeight?,NetWeight?,PalletQuantityInformation?) >

<!ELEMENT ContactName (#PCDATA) >

```

Load Tender Ocean, continued

```
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT RequiredDocumentEffectiveDates (DateTimeRange) >
<!ELEMENT PercentDiscount (#PCDATA) >
<!ELEMENT DiscountAmount (#PCDATA) >
```

Load Tender Ocean, continued

```

<!ELEMENT DaysDue (#PCDATA) >

<!ELEMENT DiscountsDueDate (DateTime) >

<!ELEMENT DeferredAmount (#PCDATA) >

<!ELEMENT DeferredDueDate (DateTime) >

<!ELEMENT PercentDeferredPayable (#PCDATA) >

<!ELEMENT MeasurementRange (MinimumMeasurement?,Measurement?,MaximumMeasurement?)
>

<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >

<!ELEMENT AssociatedEquipment (EquipmentID?,CarrierEquipment?,MeasurementRange?,
EquipmentLoadEmptyStatus?) >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT NumberFullPallets (#PCDATA) >

<!ELEMENT PalletPackageCountQuantity (#PCDATA) >

<!ELEMENT LoosePackageCountQuantity (#PCDATA) >

<!ELEMENT PackagingQuantity (#PCDATA) >

<!ELEMENT PackagingType (#PCDATA) >

<!ELEMENT PackagingWeight (Measurement) >

<!ELEMENT PackagingLabel (#PCDATA) >

```

Load Tender Ocean, continued

```

<!ELEMENT HazardousShipment ((LadingIdentification? |
UnitedNationsNorthAmericaId?),
    ProductIdentification?,ProductQuantity,CompartmentId?,
    PackingGroupCode?,ResidueIndicator?,EmergencyResponseContact+) >

<!ELEMENT HazardousInformation (CanadianShippingName*,InternationalShippingName*,
    USDomesticShippingName*,OT55Flag?,HazardousZoneCode?,
    RadioactiveMaterialActivityQuantity?,

NotOtherwiseSpecifiedRequirements?,HazardousTransborderRequirements*,

EmergencyScheduleCode?,HazardousEPARequirements*,SpecialInstructions*) >

<!ELEMENT HazardousClassification
(HazardousClassPrimary?,HazardousClassSecondary?,
    FlashpointTemperature?,EmergencyTemperature?,ControlledTemperature?,
    HazardousPlacardNotation*,HazardousReportableQuantityCode?) >

<!ELEMENT HazardousCanadian (EmergencyResponsePlanNumber?,
    SpecialCommodityIndicator?,HazardousNotation?,NetExplosiveQuantity?,
    SubsidiaryRiskIndicator?,EmergencyResponseContact*) >

<!ELEMENT SubLineItemNumber (#PCDATA) >

<!ELEMENT ManufacturingIdentificationDetails (ManufacturingIdentificationTypeCode,
    ManufacturingIdentificationNumber,ParentMfgIdentificationNumber)? >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT MinimumMeasurement (#PCDATA) >

<!ATTLIST MinimumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT MaximumMeasurement (#PCDATA) >

<!ATTLIST MaximumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT FromDateTime (#PCDATA) >

<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT ToDateTime (#PCDATA) >

```

Load Tender Ocean, continued

```

<!ATTLIST ToDateTime
          TimeZone CDATA #IMPLIED >

<!ELEMENT UnitedNationsNorthAmericaId (#PCDATA) >

<!ELEMENT CompartmentId (#PCDATA) >

<!ELEMENT PackingGroupCode (Code) >

<!ELEMENT ResidueIndicator (#PCDATA) >

<!ELEMENT EmergencyResponseContact (ContactInformation) >

<!ELEMENT CanadianShippingName (#PCDATA) >

<!ELEMENT InternationalShippingName (#PCDATA) >

<!ELEMENT USDomesticShippingName (#PCDATA) >

<!ELEMENT OT55Flag (#PCDATA) >

<!ELEMENT HazardousZoneCode (Code) >

<!ELEMENT RadioactiveMaterialActivityQuantity (Measurement) >

<!ELEMENT NotOtherwiseSpecifiedRequirements (#PCDATA) >

<!ATTLIST NotOtherwiseSpecifiedRequirements
          NotOtherwiseSpecifiedFlagCode ID #REQUIRED >

<!ELEMENT HazardousTransborderRequirements (#PCDATA) >

<!ELEMENT EmergencyScheduleCode (Code) >

<!ELEMENT HazardousEPARrequirements (EPAWasteStreamNumberCode?,
          WasteCharacteristicsCode?) >

<!ELEMENT HazardousClassPrimary (#PCDATA) >

<!ELEMENT HazardousClassSecondary (#PCDATA) >

<!ELEMENT FlashpointTemperature (Measurement) >

<!ELEMENT HazardousPlacardNotation (#PCDATA) >

<!ELEMENT HazardousReportableQuantityCode (Code) >

<!ATTLIST HazardousReportableQuantityCode
          ReportableQuantityQualifier CDATA #FIXED "RQ"
          >

```


Load Tender Ocean, continued

```
<!ELEMENT EmergencyResponsePlanNumber (#PCDATA) >
<!ELEMENT SpecialCommodityIndicator (#PCDATA) >
<!ATTLIST SpecialCommodityIndicator
           SpecialCommodityIndicatorCode ID #REQUIRED >
<!ELEMENT HazardousNotation (#PCDATA) >
<!ELEMENT NetExplosiveQuantity (Measurement) >
<!ELEMENT SubsidiaryRiskIndicator (#PCDATA) >
<!ATTLIST SubsidiaryRiskIndicator
           SubsidiaryRiskIndicatorCode CDATA #REQUIRED >
<!ELEMENT ManufacturingIdentificationTypeCode (#PCDATA) >
<!ELEMENT ManufacturingIdentificationNumber (#PCDATA) >
<!ELEMENT ParentMfgIdentificationNumber (#PCDATA) >
<!ELEMENT EPAWasteStreamNumberCode (Code) >
<!ELEMENT WasteCharacteristicsCode (Code) >
```

Load Tender Response

```

<!ELEMENT LoadTenderResponse (Header,LoadTenderResponseBody) >

<!ATTLIST LoadTenderResponse
    Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >

<!ELEMENT LoadTenderResponseBody (LoadTenderResponseProperties,
    LoadTenderResponsePartners,LoadTenderResponseDetails) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT LoadTenderResponseProperties (LoadTenderNumber,MarketPlaceInformation?,
    AcceptanceRejection,Purpose,LanguageCode?,ReferenceInformation*,
    ContractIdentifier*,SpecialInstructions*) >

<!ELEMENT LoadTenderResponsePartners (LogisticsCarrier,AlternateCarrier?,
    LogisticsShipper?,LogisticsBillTo?,LogisticsShipFrom?,
    LogisticsConsignee?,LogisticsCareOfParty?,LogisticsShipTo?,
    ShippingInformation*) >

<!ELEMENT LoadTenderResponseDetails
    (EquipmentDetails+,LoadTenderResponseLineItem+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
    ((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT LoadTenderNumber (DocumentIdentifier,LoadTenderIssuedDateTime?) >

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

```

Load Tender Response, *continued*

```

<!ELEMENT AcceptanceRejection (RejectReason*) >

<!ATTLIST AcceptanceRejection
      AcceptanceOrRejectionCode NOTATION (Accepted | Rejected |
      AcceptedWithChange) #IMPLIED >

<!ELEMENT Purpose (#PCDATA) >

<!ELEMENT LanguageCode (Code) >

<!ELEMENT ReferenceInformation (DocumentReference) >

<!ELEMENT ContractIdentifier (DocumentIdentifier) >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
      InstructionType NOTATION (ShipperInstructions | CarrierInstructions
      |
      ConsigneeInstructions | DriverInstructions | Tolerances |
      RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
      InspectionInstructions) #REQUIRED >

<!ELEMENT LogisticsCarrier (PartnerInformation?,(StandardCarrierAlphaCode |
Code)?) >

<!ELEMENT AlternateCarrier (PartnerInformation?,(StandardCarrierAlphaCode |
Code)?) >

<!ELEMENT LogisticsShipper (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsBillTo (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsShipFrom (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsConsignee (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsCareOfParty (ShippingInformation) >

<!ELEMENT LogisticsShipTo (ShippingInformation,RequestedDocument*) >

<!ELEMENT ShippingInformation (LocationCode | PartnerInformation) >

<!ATTLIST ShippingInformation
      LocationPointType CDATA #REQUIRED >

<!ELEMENT EquipmentDetails (EquipmentIdentifier?,EquipmentLoadEmptyStatus?,
      StatusDetails*) >

```

Load Tender Response, continued

```

<!ELEMENT LoadTenderResponseLineItem (LineNumber+,EquipmentDetailsLineNumber*,(
    LadingIdentification?,ProductIdentification?)+,PercentActive?,
    ReferenceInformation*,TransportTemperature?,ProductQuantity,
    PalletQuantityInformation?,PackagingInformation*,GrossVolume?,
    NetVolume?,GrossWeight?,NetWeight?,Label*,CountryOfOrigin?,(
    RequestedDeliveryByDateTime | RequestedDeliveryOnDateTime),(
    RequestedPickupByDateTime | RequestedPickupOnDateTime)?,
    ContractIdentifier?,ControlledTemperature?,QuoteIdentifier?,
    ShipmentTerms,LogisticsShipFrom?,LogisticsShipTo?) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LoadTenderIssuedDateTime (DateTime) >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

```

Load Tender Response, continued

```

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT RejectReason (#PCDATA) >

<!ATTLIST RejectReason
    RejectReasonCode NOTATION (EquipmentNotAvailable |
    ManpowerNotAvailable | PickupDateTimeNotPossible | HazmatBilling)
    #IMPLIED >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT StandardCarrierAlphaCode (#PCDATA) >

<!ELEMENT RequestedDocument (DocumentDeliveryInformation,NumberOfOriginals,
    NumberOfCopies?) >

<!ATTLIST RequestedDocument
    Language CDATA #REQUIRED
    RequestedDocumentType CDATA #REQUIRED >

<!ELEMENT LocationCode (Code) >

<!ELEMENT EquipmentIdentifier (#PCDATA) >

<!ELEMENT EquipmentLoadEmptyStatus (#PCDATA) >

<!ATTLIST EquipmentLoadEmptyStatus
    LoadIndicatorCode NOTATION (Loaded | Empty | Unknown | Partial)
    #IMPLIED >

<!ELEMENT StatusDetails (ShipmentStatusCode?,ShipmentStatusReasonCode?,
    ShipmentStatusDateTime?,LocationCode?,SpecialInstructions*) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT EquipmentDetailsLineNumber (#PCDATA) >

```

Load Tender Response, *continued*

```

<!ELEMENT LadingIdentification (Code) >

<!ATTLIST LadingIdentification
    LadingIdentificationQualifier NOTATION (NMFC | UN-NA | STCC | EAN |
    ODETTE | HarmonizedSystemBasedScheduleB | ScheduleB | ShipperDefined
    |
    GlobalMaterialIdentifier) #IMPLIED >

<!ELEMENT ProductIdentification (ProductIdentifier+,ProductDescription?,
    ProductGradeDescription?) >

<!ELEMENT PercentActive (#PCDATA) >

<!ELEMENT TransportTemperature (MeasurementRange) >

<!ELEMENT ProductQuantity (Measurement) >

<!ELEMENT PalletQuantityInformation
(NumberFullPallets?,PalletPackageCountQuantity?,
    LoosePackageCountQuantity?) >

<!ELEMENT PackagingInformation (ProductIdentification?,PackagingQuantity?,
PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
    PackagingInformation*) >

<!ELEMENT GrossVolume (Measurement) >

<!ELEMENT NetVolume (Measurement) >

<!ELEMENT GrossWeight (Measurement) >

<!ELEMENT NetWeight (Measurement) >

<!ELEMENT Label (#PCDATA) >

<!ELEMENT CountryOfOrigin (#PCDATA) >

<!ELEMENT RequestedDeliveryByDateTime (#PCDATA) >

<!ELEMENT RequestedDeliveryOnDateTime (#PCDATA) >

<!ELEMENT RequestedPickupByDateTime (DateTime) >

<!ELEMENT RequestedPickupOnDateTime (DateTime) >

<!ELEMENT ControlledTemperature (Measurement) >

<!ELEMENT QuoteIdentifier (#PCDATA) >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

```

Load Tender Response, continued

```

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DatetimeRange) >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >

```

Load Tender Response, continued

```

<!ATTLIST DocumentDeliveryInformation
    DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
        Postal) #REQUIRED >

<!ELEMENT NumberOfOriginals (#PCDATA) >

<!ELEMENT NumberOfCopies (#PCDATA) >

<!ELEMENT ShipmentStatusCode (Code) >

<!ELEMENT ShipmentStatusReasonCode (Code) >

<!ELEMENT ShipmentStatusDateTime (DateTime) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
        ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT MeasurementRange (MinimumMeasurement?,Measurement?,MaximumMeasurement?)
>

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT NumberFullPallets (#PCDATA) >

<!ELEMENT PalletPackageCountQuantity (#PCDATA) >

<!ELEMENT LoosePackageCountQuantity (#PCDATA) >

<!ELEMENT PackagingQuantity (#PCDATA) >

<!ELEMENT PackagingType (#PCDATA) >

<!ELEMENT PackagingWeight (Measurement) >

<!ELEMENT PackagingLabel (#PCDATA) >

<!ELEMENT ShipmentTermsCode (Code) >

<!ELEMENT ShipmentTermsLocation (#PCDATA) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

```


Load Tender Response, continued

```
<!ELEMENT TelecomAreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DatetimeRange (FromDateTime?,SpecifiedDateTime?,ToDateTime?) >
<!ELEMENT MinimumMeasurement (#PCDATA) >
<!ATTLIST MinimumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT MaximumMeasurement (#PCDATA) >
<!ATTLIST MaximumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT FromDateime (#PCDATA) >
<!ATTLIST FromDateime
    TimeZone CDATA #IMPLIED >
<!ELEMENT SpecifiedDateTime (#PCDATA) >
<!ELEMENT ToDateime (#PCDATA) >
<!ATTLIST ToDateime
    TimeZone CDATA #IMPLIED >
```

Shipment Status

```

<!ELEMENT ShipmentStatus (Header,ShipmentStatusBody) >

<!ATTLIST ShipmentStatus
          Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
                  RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >

<!ELEMENT ShipmentStatusBody (ShipmentStatusProperties,ShipmentStatusPartners,
                               ShipmentStatusDetails) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT ShipmentStatusProperties (LoadTenderNumber?,ReferenceInformation*,
                                   MarketPlaceInformation?,Language,SpecialInstructions*,
                                   ConveyanceNameorID?,StatusDetails*) >

<!ELEMENT ShipmentStatusPartners (LogisticsShipper,LogisticsCarrier,
                                   LogisticsBillTo?,LogisticsShipFrom?,LogisticsCareOfParty?,
                                   LogisticsShipTo?) >

<!ELEMENT ShipmentStatusDetails (EquipmentDetails+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
          TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
 AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT LoadTenderNumber (DocumentReference) >

<!ELEMENT ReferenceInformation (DocumentReference) >

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
                                   MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
                                   MarketPlaceBuyerIdentifier) >

```

Shipment Status, continued

```

<!ELEMENT Language (#PCDATA) >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
  InstructionType NOTATION (ShipperInstructions | CarrierInstructions
  |
  ConsigneeInstructions | DriverInstructions | Tolerances |
  RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
  InspectionInstructions) #REQUIRED >

<!ELEMENT ConveyanceNameorID (VoyageTripNumber?,VoyageTripDate*,
  EstimatedTimeOfArrivalDate?) >

<!ELEMENT StatusDetails (ShipmentStatusCode?,ShipmentStatusReasonCode?,
  ShipmentStatusDateTime?,LocationCode?,SpecialInstructions*) >

<!ELEMENT LogisticsShipper (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsCarrier (PartnerInformation? | (StandardCarrierAlphaCode |
  Code)?) >

<!ELEMENT LogisticsBillTo (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsShipFrom (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsCareOfParty (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsShipTo (ShippingInformation,RequestedDocument*) >

<!ELEMENT EquipmentDetails (EquipmentID?,EquipmentLoadEmptyStatus?,StatusDetails*)
  >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
  PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
  BillToParty | Consignee | NotifyParty | CareOfParty |
  UltimateConsignee | FreightForwarder | TransportationBroker |
  CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
  |
  SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
  FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
  StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

```

Shipment Status, continued

```

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceIdentifier (Code) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (Code) >

<!ELEMENT MarketPlaceBuyerIdentifier (Code) >

<!ELEMENT VoyageTripNumber (#PCDATA) >

<!ELEMENT VoyageTripDate (DateTimeRange) >

<!ELEMENT EstimatedTimeOfArrivalDate (DateTimeRange | DateTime) >

<!ELEMENT ShipmentStatusCode (Code) >

<!ELEMENT ShipmentStatusReasonCode (Code) >

<!ELEMENT ShipmentStatusDateTime (DateTime) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT ShippingInformation (LocationCode | PartnerInformation) >

```

Shipment Status, continued

```

<!ATTLIST ShippingInformation
    LocationPointType CDATA    #REQUIRED >

<!ELEMENT RequestedDocument (DocumentDeliveryInformation,NumberOfOriginals,
    NumberOfCopies?) >

<!ATTLIST RequestedDocument
    Language CDATA    #REQUIRED
    RequestedDocumentType CDATA    #REQUIRED >

<!ELEMENT StandardCarrierAlphaCode (#PCDATA) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA    #REQUIRED >

<!ELEMENT EquipmentID (AssociatedEquipment*) >

<!ELEMENT EquipmentLoadEmptyStatus (#PCDATA) >

<!ATTLIST EquipmentLoadEmptyStatus
    LoadIndicatorCode NOTATION (Loaded | Empty | Unknown)    #IMPLIED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

```

Shipment Status, continued

```

<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
    TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >
<!ATTLIST DocumentDeliveryInformation
    DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
    Postal) #REQUIRED >
<!ELEMENT NumberOfOriginals (#PCDATA) >
<!ELEMENT NumberOfCopies (#PCDATA) >
<!ELEMENT AssociatedEquipment (EquipmentID?,CarrierEquipment?,MeasurementRange,
    EquipmentLoadEmptyStatus?) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >

```

Shipment Status, continued

```
<!ELEMENT ToDateTime (#PCDATA) >

<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT CarrierEquipment (#PCDATA) >

<!ELEMENT MeasurementRange (MinimumMeasurement?,Measurement?,MaximumMeasurement?)
>

<!ELEMENT MinimumMeasurement (#PCDATA) >

<!ATTLIST MinimumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT MaximumMeasurement (#PCDATA) >

<!ATTLIST MaximumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >
```

Ship Notice

```

<!ELEMENT ShipNotice (Header,ShipNoticeBody) >
<!ATTLIST ShipNotice
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```


Ship Notice, *continued*

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Ship Notice, continued

```

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT DateTimeRange (FromDateTime?,SpecifiedDateTime?,ToDateTime?) >

<!ELEMENT FromDateTime (#PCDATA) >

<!ATTLIST FromDateTime
          TimeZone CDATA #IMPLIED >

<!ELEMENT SpecifiedDateTime (#PCDATA) >

<!ELEMENT ToDateime (#PCDATA) >

<!ATTLIST ToDateime
          TimeZone CDATA #IMPLIED >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT ShipNoticeBody (ShipNoticeProperties,ShipNoticePartners,
                          ShipNoticeDetails) >

<!ELEMENT ShipNoticeProperties
((ShipmentIdentification,ShipDate),LoadTenderNumber?,
 PurchaseOrderNumber?,BuyerOrderIdentifier?,SalesOrderIdentifier?,
 TransportationMethodCode,MarketPlaceInformation?,RoutingInstructions?,(
 ReferenceInformation,DateTime?)*,ShipmentMethodofPayment?,
 ShipmentTerms?,ConveyanceInformation?,PortOfEmbarkation?,
 IntermodalService?,PortOfDischarge?,SpecialInstructions*) >

<!ELEMENT ShipmentIdentification (DocumentReference) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

```

Ship Notice, continued

```

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT ShipDate (DateTime) >

<!ELEMENT LoadTenderNumber (DocumentIdentifier,LoadTenderIssuedDateTime?) >

<!ELEMENT LoadTenderIssuedDateTime (DateTime) >

<!ELEMENT PurchaseOrderNumber (DocumentReference) >

<!ELEMENT BuyerOrderIdentifier (DocumentReference) >

<!ELEMENT SalesOrderIdentifier (DocumentReference) >

<!ELEMENT TransportationMethodCode (#PCDATA) >

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT RoutingInstructions (Comment) >

<!ELEMENT ReferenceInformation (DocumentReference) >

```

Ship Notice, *continued*

```

<!ELEMENT ShipmentMethodofPayment (#PCDATA) >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

<!ELEMENT ShipmentTermsCode (Code) >

<!ELEMENT ShipmentTermsLocation (#PCDATA) >

<!ELEMENT ConveyanceInformation (ConveyanceNameorIdentifier?,VoyageTripNumber?,
    VoyageTripDate*,EstimatedTimeOfArrivalDate?) >

<!ELEMENT ConveyanceNameorIdentifier (#PCDATA) >

<!ELEMENT VoyageTripNumber (#PCDATA) >

<!ELEMENT VoyageTripDate (DateTimeRange) >

<!ELEMENT EstimatedTimeOfArrivalDate (DateTimeRange) >

<!ELEMENT PortOfEmbarkation (Code) >

<!ELEMENT IntermodalService (#PCDATA) >

<!ATTLIST IntermodalService
    IntermodalServiceCode NOTATION (RampToRamp | PointToPoint |
    PointToPort | PortToPort | PortToPoint) #IMPLIED >

<!ELEMENT PortOfDischarge (Code) >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
    |
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT ShipNoticePartners (LogisticsShipFrom,LogisticsConsignee,
    LogisticsCarrier?,LogisticsShipTo?,LogisticsBuyer?,LogisticsSeller?,
    LogisticsManufacturer?,LogisticsSupplier?,LogisticsCareOfParty?) >

<!ELEMENT LogisticsShipFrom (ShippingInformation,RequestedDocument*) >

<!ELEMENT ShippingInformation (LocationCode | PartnerInformation) >

<!ATTLIST ShippingInformation
    LocationPointType CDATA #REQUIRED >

<!ELEMENT RequestedDocument (DocumentDeliveryInformation,NumberOfOriginals,
    NumberOfCopies?) >

```

Ship Notice, continued

```

<!ATTLIST RequestedDocument
    Language CDATA #REQUIRED
    RequestedDocumentType CDATA #REQUIRED >

<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >

<!ATTLIST DocumentDeliveryInformation
    DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
    Postal) #REQUIRED >

<!ELEMENT NumberOfOriginals (#PCDATA) >

<!ELEMENT NumberOfCopies (#PCDATA) >

<!ELEMENT LogisticsConsignee (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsCarrier (PartnerInformation?,(StandardCarrierAlphaCode |
Code)?) >

<!ELEMENT StandardCarrierAlphaCode (#PCDATA) >

<!ELEMENT LogisticsShipTo (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsBuyer (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsSeller (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsManufacturer (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsSupplier (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsCareOfParty (ShippingInformation) >

<!ELEMENT ShipNoticeDetails (ShipNoticeEquipmentDetails*,ProductLineItem+,
    ShipmentPackaging?) >

<!ELEMENT ShipNoticeEquipmentDetails (LineNumber?,LineItemLineNumber*,
    EquipmentIdentifier?,CarrierEquipment?,EquipmentOwnership?,
    NumberOfUnits?,SpecialInstructions*,Height?,Width?,Length?,NetWeight?,
    TareWeight?,GrossWeight?,NetVolume?,GrossVolume?,SealNumber*,
    EquipmentLoadEmptyStatus?,AssociatedEquipment*) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT LineItemLineNumber (#PCDATA) >

<!ELEMENT EquipmentIdentifier (#PCDATA) >

<!ELEMENT CarrierEquipment (Code) >

```

Ship Notice, continued

```

<!ELEMENT EquipmentOwnership (Code) >
<!ELEMENT NumberOfUnits (Measurement) >
<!ELEMENT Measurement (#PCDATA) >
<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT Height (MeasurementRange) >
<!ELEMENT MeasurementRange (MinimumMeasurement?,Measurement?,MaximumMeasurement?)
>
<!ELEMENT MinimumMeasurement (#PCDATA) >
<!ATTLIST MinimumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT MaximumMeasurement (#PCDATA) >
<!ATTLIST MaximumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT Width (MeasurementRange) >
<!ELEMENT Length (MeasurementRange) >
<!ELEMENT NetWeight (Measurement) >
<!ELEMENT TareWeight (Measurement) >
<!ATTLIST TareWeight
    TareWeightQualifierCode NOTATION (Actual | Marked) #IMPLIED >
<!ELEMENT GrossWeight (Measurement) >
<!ELEMENT NetVolume (Measurement) >
<!ELEMENT GrossVolume (Measurement) >
<!ELEMENT SealNumber (#PCDATA) >
<!ELEMENT EquipmentLoadEmptyStatus (#PCDATA) >
<!ATTLIST EquipmentLoadEmptyStatus
    LoadIndicatorCode NOTATION (Loaded | Empty | Unknown | Partial)
    #IMPLIED >
<!ELEMENT AssociatedEquipment (EquipmentIdentifier?,NumberOfUnits?,
    MeasurementRange?,SpecialInstructions*) >

```

Ship Notice, continued

```

<!ELEMENT ProductLineItem (LineNumber?,EquipmentDetailsLineNumber*,
    ProductIdentification,ShippedQuantity,InvoiceQuantity?,
    PurchaseOrderNumber?,ReleaseNumber?,CumulativeTotalQuantity?,
    ReferenceInformation*,ShipmentIndicator?,BuyerOrderIdentifier?,
    SalesOrderIdentifier?,PercentActive?,SpecialInstructions*,
    ProductSubLineItems*,PackagingInformation*) >

<!ELEMENT EquipmentDetailsLineNumber (#PCDATA) >

<!ELEMENT ProductIdentification (ProductIdentifier+,ProductDescription?,
    ProductGradeDescription?) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT ShippedQuantity (Measurement) >

<!ELEMENT InvoiceQuantity (Measurement) >

<!ELEMENT ReleaseNumber (#PCDATA) >

<!ELEMENT CumulativeTotalQuantity (Measurement) >

<!ELEMENT ShipmentIndicator (#PCDATA) >

<!ELEMENT PercentActive (#PCDATA) >

<!ELEMENT ProductSubLineItems (SubLineItemNumber,
    ManufacturingIdentificationDetails?,GrossVolume?,NetVolume?,
    GrossWeight?,NetWeight?) >

<!ELEMENT SubLineItemNumber (#PCDATA) >

<!ELEMENT ManufacturingIdentificationDetails (ManufacturingIdentificationTypeCode,
    ManufacturingIdentificationNumber,
    ParentManufacturingIdentificationNumber)? >

<!ELEMENT ManufacturingIdentificationTypeCode (#PCDATA) >

<!ELEMENT ManufacturingIdentificationNumber (#PCDATA) >

<!ELEMENT ParentManufacturingIdentificationNumber (#PCDATA) >

```

Ship Notice, continued

```
<!ELEMENT PackagingInformation (ProductIdentification?,PackagingQuantity?,
PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
PackagingInformation*) >

<!ELEMENT PackagingQuantity (#PCDATA) >

<!ELEMENT PackagingType (#PCDATA) >

<!ELEMENT PackagingWeight (Measurement) >

<!ELEMENT PackagingLabel (#PCDATA) >

<!ELEMENT ShipmentPackaging (PackageDetail+) >

<!ELEMENT PackageDetail (LineNumber?,ProductIdentification?,PackageType?,
PackagingQuantity?,PackageLevel?,ProductCode?,PackageWeight?,
ShippingLabelNumber?,SubUnitCount?,PackageDetail*)* >

<!ELEMENT PackageType (#PCDATA) >

<!ELEMENT PackageLevel (#PCDATA) >

<!ELEMENT ProductCode (Code) >

<!ELEMENT PackageWeight (Measurement) >

<!ELEMENT ShippingLabelNumber (#PCDATA) >

<!ELEMENT SubUnitCount (#PCDATA) >
```


Freight Bill

```

<!ELEMENT FreightBill (Header, FreightBillBody) >
<!ATTLIST FreightBill
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier, ThisDocumentDateTime,
    RequestingDocumentIdentifier?, RequestingDocumentDateTime?, From, To) >
<!ELEMENT FreightBillBody (FreightBillProperties, FreightBillPartners,
    FreightBillDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT FreightBillProperties (FreightBillNumber, Purpose,
    TransportationMethodCode, ShipmentMethodofPayment, LoadTenderNumber,
    MarketPlaceInformation?, CurrencyCode, ReferenceInformation*,
    WaybillNumber?, ShipDate?, LanguageCode?, SecondCurrency?, CurrencyRates?,
    RoutingInstructions*, ExportImportRequiredDocument?) >
<!ELEMENT FreightBillPartners (LogisticsRemitTo, LogisticsBillTo, LogisticsShipFrom,
    LogisticsShipTo, LogisticsConsignee, LogisticsCarrier?,
    LogisticsShipper?, LogisticsForwarder?, ShippingInformation*) >
<!ELEMENT FreightBillDetails
    (EquipmentDetails+, PaymentTerms?, FreightBillLineItems+,
    FreightBillTotals) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
    ((PartnerName+, PartnerIdentifier), ContactInformation*,
    AddressInformation?, TaxInformation*, URL?) >
<!ELEMENT FreightBillNumber (DocumentIdentifier, FreightBillType, DateTime) >

```

Freight Bill, continued

```

<!ELEMENT Purpose (#PCDATA) >
<!ELEMENT TransportationMethodCode (#PCDATA) >
<!ELEMENT ShipmentMethodofPayment (#PCDATA) >
<!ELEMENT LoadTenderNumber (DocumentIdentifier,LoadTenderIssuedDateTime?) >
<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >
<!ELEMENT CurrencyCode (Code) >
<!ELEMENT ReferenceInformation (DocumentReference) >
<!ELEMENT WaybillNumber (DocumentIdentifier,DateTime?) >
<!ELEMENT ShipDate (DateTime) >
<!ELEMENT LanguageCode (Code) >
<!ELEMENT SecondCurrency (CurrencyCode) >
<!ELEMENT CurrencyRates (SellersCurrency,BuyersCurrency,ExchangeRate?) >
<!ELEMENT RoutingInstructions (Comment) >
<!ELEMENT ExportImportRequiredDocument (RequestedDocument,
    RequiredDocumentEffectiveDates,Comment*) >
<!ELEMENT LogisticsRemitTo (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsBillTo (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsShipFrom (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsShipTo (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsConsignee (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsCarrier (PartnerInformation? | (StandardCarrierAlphaCode |
Code)?) >
<!ELEMENT LogisticsShipper (ShippingInformation,RequestedDocument*) >
<!ELEMENT LogisticsForwarder (ShippingInformation,RequestedDocument*) >
<!ELEMENT ShippingInformation (LocationCode | PartnerInformation) >

```

Freight Bill, continued

```

<!ATTLIST ShippingInformation
    LocationPointType CDATA #REQUIRED >

<!ELEMENT EquipmentDetails (LineNumber+,LineItemLineNumber*,EquipmentID?,
    EquipmentOwnership?,CarrierEquipment?,Height?,Width?,Length?,
    NetWeight?,TareWeight?,GrossWeight?,NetVolume?,GrossVolume?,
    SealNumber*,EquipmentLoadEmptyStatus?) >

<!ELEMENT PaymentTerms (TermsOfSale,PaymentTermsBasisDateCode?,
    PaymentTermsBasisDate?,Discounts?,Deferred?,Penalty?) >

<!ELEMENT FreightBillLineItems (LineNumber,EquipmentDetailsLineNumber*,(
    LadingIdentification?,ProductIdentification?)+,ProductQuantity,
    ShipDate?,PurchaseOrderInformation?,ShipmentTerms,
    CarrierReferenceNumber*,SpecialHandlingAmount*,SpecialInstructions*,
    TariffIdentification*,FreightCharge?,LogisticsShipTo?,LineItemTotal)
>

<!ELEMENT FreightBillTotals (TotalLineItems?,GrossTotal?,Tax*,InvoiceTotal) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT FreightBillType (#PCDATA) >

<!ELEMENT LoadTenderIssuedDateTime (DateTime) >

<!ATTLIST LoadTenderIssuedDateTime
    LoadTenderDateTypeCode NOTATION (OnBoardRail | OnBoardVessel |
    ShipReceived) #IMPLIED >

```

Freight Bill, continued

```

<!ELEMENT MarketPlaceIdentifier (Code) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (Code) >

<!ELEMENT MarketPlaceBuyerIdentifier (Code) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT SellersCurrency (CurrencyCode) >

<!ELEMENT BuyersCurrency (CurrencyCode) >

<!ELEMENT ExchangeRate (#PCDATA) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT RequestedDocument (DocumentDeliveryInformation,NumberOfOriginals,
    NumberOfCopies?) >

<!ATTLIST RequestedDocument
    Language CDATA #REQUIRED
    RequestedDocumentType CDATA #REQUIRED >

<!ELEMENT RequiredDocumentEffectiveDates (DateTime) >

```

Freight Bill, continued

```

<!ELEMENT StandardCarrierAlphaCode (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT LineNumber (#PCDATA) >
<!ELEMENT LineItemLineNumber (#PCDATA) >
<!ELEMENT EquipmentID (AssociatedEquipment*) >
<!ELEMENT EquipmentOwnership (Code) >
<!ELEMENT CarrierEquipment (MeasurementRange*) >
<!ELEMENT Height (MeasurementRange) >
<!ELEMENT Width (MeasurementRange) >
<!ELEMENT Length (MeasurementRange) >
<!ELEMENT NetWeight (Measurement) >
<!ELEMENT TareWeight (Measurement) >
<!ELEMENT GrossWeight (Measurement) >
<!ELEMENT NetVolume (Measurement) >
<!ELEMENT GrossVolume (Measurement) >
<!ELEMENT SealNumber (#PCDATA) >
<!ELEMENT EquipmentLoadEmptyStatus (#PCDATA) >
<!ATTLIST EquipmentLoadEmptyStatus
    LoadIndicatorCode NOTATION (Loaded | Empty | Unknown | Partial)
    #IMPLIED >
<!ELEMENT TermsOfSale (#PCDATA) >
<!ELEMENT PaymentTermsBasisDateCode (Code) >
<!ELEMENT PaymentTermsBasisDate (DateTime) >
<!ELEMENT Discounts (PercentDiscount,DiscountAmount,(DaysDue | DiscountsDueDate)+)
>
<!ELEMENT Deferred (DeferredAmount,DeferredDueDate,PercentDeferredPayable) >
<!ELEMENT Penalty (#PCDATA) >

```

Freight Bill, continued

```

<!ELEMENT EquipmentDetailsLineNumber (#PCDATA) >

<!ELEMENT LadingIdentification (Code) >

<!ATTLIST LadingIdentification
    LadingIdentificationQualifier NOTATION (NMFC | UN-NA | STCC | EAN |
    ODETTE | HarmonizedSystemBasedScheduleB | ScheduleB | ShipperDefined
    |
    GlobalMaterialIdentifier) #IMPLIED >

<!ELEMENT ProductIdentification (ProductIdentifier?,ProductDescription?,
    ProductGradeDescription?) >

<!ELEMENT ProductQuantity (Measurement) >

<!ELEMENT PurchaseOrderInformation (PurchaseOrderNumber,PurchaseOrderIssuedDate,
    PurchaseOrderLineItemNumber,ChangeSequenceNumber?,ReleaseNumber?) >

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

<!ELEMENT CarrierReferenceNumber (#PCDATA) >

<!ELEMENT SpecialHandlingAmount (MonetaryAmount) >

<!ATTLIST SpecialHandlingAmount
    SpecialServiceCodes CDATA #IMPLIED >

<!ELEMENT SpecialInstructions (#PCDATA) >

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
    |
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT TariffIdentification (#PCDATA) >

<!ATTLIST TariffIdentification
    TariffAuthority CDATA #IMPLIED >

<!ELEMENT FreightCharge (MonetaryAmount) >

<!ELEMENT LineItemTotal (#PCDATA) >

<!ELEMENT TotalLineItems (#PCDATA) >

<!ELEMENT GrossTotal (MonetaryAmount) >

<!ELEMENT Tax (Exempt?,NonExempt*) >

```

Freight Bill, continued

```

<!ELEMENT InvoiceTotal (MonetaryAmount) >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DatetimeRange) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT Content (#PCDATA) >

```

Freight Bill, continued

```

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >

<!ATTLIST DocumentDeliveryInformation
    DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
    Postal) #REQUIRED >

<!ELEMENT NumberOfOriginals (#PCDATA) >

<!ELEMENT NumberOfCopies (#PCDATA) >

<!ELEMENT AssociatedEquipment (EquipmentID?,CarrierEquipment?,MeasurementRange?,
    EquipmentLoadEmptyStatus?) >

<!ELEMENT MeasurementRange (MinimumMeasurement?,Measurement?,MaximumMeasurement?)
>

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT PercentDiscount (#PCDATA) >

<!ELEMENT DiscountAmount (#PCDATA) >

<!ELEMENT DaysDue (#PCDATA) >

<!ELEMENT DiscountsDueDate (DateTime) >

<!ELEMENT DeferredAmount (#PCDATA) >

<!ELEMENT DeferredDueDate (DateTime) >

<!ELEMENT PercentDeferredPayable (#PCDATA) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT PurchaseOrderNumber (#PCDATA) >

<!ELEMENT PurchaseOrderIssuedDate (DateTime) >

```


Freight Bill, continued

```

<!ELEMENT PurchaseOrderLineNumber (#PCDATA) >
<!ELEMENT ChangeSequenceNumber (#PCDATA) >
<!ELEMENT ReleaseNumber (#PCDATA) >
<!ELEMENT ShipmentTermsCode (Code) >
<!ELEMENT ShipmentTermsLocation (#PCDATA) >
<!ELEMENT MonetaryAmount (#PCDATA) >
<!ATTLIST MonetaryAmount
    CurrencyCode CDATA #REQUIRED >
<!ELEMENT Exempt (#PCDATA) >
<!ELEMENT NonExempt (TaxType,TaxLocation,TaxRate,Amount) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT DatetimeRange (FromDateTime?,SpecifiedDateTime?,ToDateTime?) >
<!ELEMENT MinimumMeasurement (#PCDATA) >
<!ATTLIST MinimumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT MaximumMeasurement (#PCDATA) >
<!ATTLIST MaximumMeasurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT TaxType (#PCDATA) >
<!ELEMENT TaxLocation (#PCDATA) >
<!ELEMENT Amount (MonetaryAmount) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT SpecifiedDateTime (#PCDATA) >

```

Freight Bill, continued

```
<!ELEMENT ToDateTime (#PCDATA) >
```

```
<!ATTLIST ToDateTime  
    TimeZone CDATA #IMPLIED >
```

Carrier Weights

```

<!ELEMENT CarrierWeights (Header,CarrierWeightsBody) >
<!ATTLIST CarrierWeights
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT CarrierWeightsBody (CarrierWeightsProperties,CarrierWeightsPartners,
    CarrierWeightsDetails+) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT CarrierWeightsProperties (LoadTenderNumber,ContractIdentifier*,
    SpecialInstructions*,ReferenceInformation*) >
<!ELEMENT CarrierWeightsPartners (Scales,LogisticsCarrier,LogisticsShipper?,
    LogisticsConsignee?,PartnerInformation*) >
<!ELEMENT CarrierWeightsDetails (EquipmentIdentifier,ScaleDate,Weight,
    EquipmentOwnership?,TareWeight?,WeightAllowance*,
    ReferenceInformation*) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT LoadTenderNumber (DocumentIdentifier,LoadTenderIssuedDateTime?) >
<!ELEMENT ContractIdentifier (DocumentIdentifier) >
<!ELEMENT SpecialInstructions (#PCDATA) >

```

Carrier Weights, continued

```

<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
    |
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >

<!ELEMENT ReferenceInformation (DocumentReference) >

<!ELEMENT Scales (PartnerInformation | LocationCode) >

<!ATTLIST Scales
    ScaleType NOTATION (Private | Rail | NonCarrier) #IMPLIED >

<!ELEMENT LogisticsCarrier (PartnerInformation?,(StandardCarrierAlphaCode |
Code)?) >

<!ELEMENT LogisticsShipper (ShippingInformation,RequestedDocument*) >

<!ELEMENT LogisticsConsignee (ShippingInformation,RequestedDocument*) >

<!ELEMENT EquipmentIdentifier (#PCDATA) >

<!ELEMENT ScaleDate (DateTime) >

<!ELEMENT Weight (Measurement) >

<!ATTLIST Weight
    WeightQualifier NOTATION (ShipperWeight | GrossWeight | Lightweight
    |
    ActualNetWeight) #IMPLIED >

<!ELEMENT EquipmentOwnership (Code) >

<!ELEMENT TareWeight (Measurement) >

<!ATTLIST TareWeight
    TareWeightQualifierCode NOTATION (Actual | Marked) #IMPLIED >

<!ELEMENT WeightAllowance (#PCDATA) >

<!ATTLIST WeightAllowance
    WeightAllowanceType NOTATION (Dunnage | Fuel | Ice | Snow | Water |
    Cab | Driver) #IMPLIED >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

```

Carrier Weights, continued

```

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LoadTenderIssuedDateTime (DateTime) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT LocationCode (Code) >

<!ELEMENT StandardCarrierAlphaCode (#PCDATA) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ShippingInformation (LocationCode | PartnerInformation) >

<!ATTLIST ShippingInformation
    LocationPointType CDATA #REQUIRED >

<!ELEMENT RequestedDocument (DocumentDeliveryInformation,NumberOfOriginals,
    NumberOfCopies?) >

```

Carrier Weights, continued

```

<!ATTLIST RequestedDocument
    Language CDATA #REQUIRED
    RequestedDocumentType CDATA #REQUIRED >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
    TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

```

Carrier Weights, continued

```

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT DocumentDeliveryInformation (PartnerInformation) >

<!ATTLIST DocumentDeliveryInformation
    DeliveryMethodQualifier (Email | Fax | WithDriver | Print | TELEX |
        Postal) #REQUIRED >

<!ELEMENT NumberOfOriginals (#PCDATA) >

<!ELEMENT NumberOfCopies (#PCDATA) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >

<!ELEMENT FromDateTime (#PCDATA) >

<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT ToDateTime (#PCDATA) >

<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >

```

Financial

Invoice

```

<!ELEMENT Invoice (Header,InvoiceBody) >

<!ATTLIST Invoice
    Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >

<!ELEMENT InvoiceBody (InvoiceProperties,InvoiceDetails,InvoiceParties) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT InvoiceProperties (InvoiceNumber,InvoiceType,InvoiceDate,InvoiceStatus,
    InvoiceAmount,ShipDate?,Language?,PrimaryCurrency,SecondCurrency?,
    CurrencyRates?,MarketPlaceInformation?,InvoiceRemitTo?) >

<!ELEMENT InvoiceDetails (PaymentTerms,InvoiceLineItems+,InvoiceTotals) >

<!ELEMENT InvoiceParties (Buyer+,Seller+,MarketPlace+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT InvoiceNumber (#PCDATA) >

<!ELEMENT InvoiceType (#PCDATA) >

<!ELEMENT InvoiceDate (DateTime) >

<!ELEMENT InvoiceStatus (#PCDATA) >

```


Invoice, continued

```

<!ELEMENT InvoiceAmount (#PCDATA) >

<!ELEMENT ShipDate (DateTime) >

<!ELEMENT Language (#PCDATA) >

<!ELEMENT PrimaryCurrency (CurrencyCode) >

<!ELEMENT SecondCurrency (CurrencyCode) >

<!ELEMENT CurrencyRates (SellersCurrency,BuyersCurrency,ExchangeRate) >

<!ELEMENT MarketplaceInformation (MarketPlaceIdentifier,
    MarketplaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketplaceBuyerIdentifier) >

<!ELEMENT InvoiceRemitTo (PartnerInformation) >

<!ELEMENT PaymentTerms (#PCDATA) >

<!ELEMENT InvoiceLineItems
(LineItemNumber?,ShipDate?,SellerProductIdentification?,
    BuyerProductIdentification?,InvoiceQuantity?,UnitOfMeasure?,Pricing,
    PurchaseOrderInformation?,Taxable?,ShipmentTerms?,

FreightIncludedFlag?,Shipping?,Carrier?,Allowances?,SpecialServices?,
    LineItemTotal?) >

<!ELEMENT InvoiceTotals (TotalLineItems?,GrossTotal?,Tax*,InvoiceTotal) >

<!ELEMENT Buyer (PartnerInformation) >

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT Marketplace (PartnerInformation) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

```

Invoice, continued

```

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
                             StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
                          TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT CurrencyCode (Code) >

<!ELEMENT SellersCurrency (CurrencyCode) >

<!ELEMENT BuyersCurrency (CurrencyCode) >

<!ELEMENT ExchangeRate (#PCDATA) >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST MarketPlaceDocumentReference
          ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
          DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
          |
          PRONumber | AppointmentNumber | ShipmentIdentifier |
          LoadPlanningNumber | BookingNumber | LineItemNumber |
          SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
          |
          RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >

<!ELEMENT LineItemNumber (#PCDATA) >

<!ELEMENT SellerProductIdentification (ProductIdentification) >

<!ELEMENT BuyerProductIdentification (ProductIdentification) >

<!ELEMENT InvoiceQuantity (Measurement) >

<!ELEMENT UnitOfMeasure (#PCDATA) >

<!ELEMENT Pricing (MonetaryAmount,PriceBasis,PriceReason?) >

<!ELEMENT PurchaseOrderInformation (PurchaseOrderNumber,PurchaseOrderIssuedDate,
                                     PurchaseOrderLineItemNumber,ChangeSequenceNumber?,ReleaseNumber?) >

<!ELEMENT Taxable (#PCDATA) >

```

Invoice, continued

```

<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >
<!ELEMENT FreightIncludedFlag (#PCDATA) >
<!ELEMENT Shipping (#PCDATA) >
<!ELEMENT Carrier (PartnerInformation) >
<!ELEMENT Allowances (#PCDATA) >
<!ELEMENT SpecialServices (#PCDATA) >
<!ELEMENT LineItemTotal (#PCDATA) >
<!ELEMENT TotalLineItems (#PCDATA) >
<!ELEMENT GrossTotal (#PCDATA) >
<!ELEMENT Tax (Exempt?,NonExempt*) >
<!ELEMENT InvoiceTotal (#PCDATA) >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >

```

Invoice, continued

```
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
          TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT ProductIdentification (ProductIdentifier+,ProductDescription?,
          ProductGradeDescription?) >
<!ELEMENT Measurement (#PCDATA) >
<!ATTLIST Measurement
          UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT MonetaryAmount (#PCDATA) >
<!ATTLIST MonetaryAmount
          CurrencyCode CDATA #REQUIRED >
<!ELEMENT PriceBasis (Measurement) >
<!ELEMENT PriceReason (#PCDATA) >
<!ELEMENT PurchaseOrderNumber (DocumentReference) >
<!ELEMENT PurchaseOrderIssuedDate (DateTime) >
<!ELEMENT PurchaseOrderLineNumber (#PCDATA) >
<!ELEMENT ChangeSequenceNumber (#PCDATA) >
```

Invoice, continued

```

<!ELEMENT ReleaseNumber (#PCDATA) >
<!ELEMENT ShipmentTermsCode (Code) >
<!ELEMENT ShipmentTermsLocation (#PCDATA) >
<!ELEMENT Exempt (#PCDATA) >
<!ELEMENT NonExempt (TaxType,TaxLocation,TaxRate,DeferredAmount) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT TelecomAreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT ProductIdentifier (#PCDATA) >
<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >
<!ELEMENT ProductDescription (#PCDATA) >
<!ELEMENT ProductGradeDescription (#PCDATA) >
<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >
<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >
<!ELEMENT TaxType (#PCDATA) >
<!ELEMENT TaxLocation (#PCDATA) >
<!ELEMENT DeferredAmount (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >

```

Invoice, continued

```
<!ATTLIST FromDateTime  
        TimeZone CDATA #IMPLIED >
```

```
<!ELEMENT ToDateTime (#PCDATA) >
```

```
<!ATTLIST ToDateTime  
        TimeZone CDATA #IMPLIED >
```

Payment

```

<!ELEMENT Payment (Header,PaymentBody) >
<!ATTLIST Payment
    Attribute CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT PaymentBody (PaymentProperties,PaymentPartners?,PaymentDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PaymentProperties (BuyerTransactionNumber,CreditDebitFlagCode,
    PaymentMethod) >
<!ELEMENT PaymentPartners (Buyer?,Seller?,MarketPlaceInformation) >
<!ELEMENT PaymentDetails (InvoiceNumber*,TotalPaymentAmount,PaymentFormatCode?,
    BuyerAccountDetails,SellerAccountDetails,PaymentDates) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT BuyerTransactionNumber (#PCDATA) >
<!ELEMENT CreditDebitFlagCode (#PCDATA) >
<!ELEMENT PaymentMethod (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >

```

Payment, continued

```

<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,
    MarketPlaceDocumentReference,MarketPlaceSellerIdentifier,
    MarketPlaceBuyerIdentifier) >

<!ELEMENT InvoiceNumber (#PCDATA) >

<!ELEMENT TotalPaymentAmount (#PCDATA) >

<!ELEMENT PaymentFormatCode (#PCDATA) >

<!ELEMENT BuyerAccountDetails (BuyerFinancialInstitution?,
    BuyerFinancialInstitutionDFINumber?,AccountNumberBuyer?,
    CreditCardType?,CreditCardNumber?,CreditCardExpirationDate?,
    CardHolderName?) >

<!ELEMENT SellerAccountDetails (SellerFinancialInstitution?,
    SellerFinancialInstitutionDFINumber?,AccountNumberSeller?) >

<!ELEMENT PaymentDates (RequestSentDate?,PaymentDueDate) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code2) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName?,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ATTLIST AddressInformation
    Adresstype (Shipment | RailHead | Airport) #IMPLIED >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT MarketPlaceIdentifier (#PCDATA) >

<!ELEMENT MarketPlaceDocumentReference (DocumentIdentifier,ReferenceItem?) >

```


Payment, continued

```

<!ATTLIST MarketPlaceDocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | CustomerMasterRecordNumber
    |
    RequestForQuoteNumber) #REQUIRED >

<!ELEMENT MarketPlaceSellerIdentifier (#PCDATA) >
<!ELEMENT MarketPlaceBuyerIdentifier (#PCDATA) >
<!ELEMENT BuyerFinancialInstitution (#PCDATA) >
<!ELEMENT BuyerFinancialInstitutionDFINumber (#PCDATA) >
<!ELEMENT AccountNumberBuyer (#PCDATA) >
<!ELEMENT CreditCardType (#PCDATA) >
<!ELEMENT CreditCardNumber (#PCDATA) >
<!ELEMENT CreditCardExpirationDate (#PCDATA) >
<!ELEMENT CardHolderName (#PCDATA) >
<!ELEMENT SellerFinancialInstitution (#PCDATA) >
<!ELEMENT SellerFinancialInstitutionDFINumber (#PCDATA) >
<!ELEMENT AccountNumberSeller (#PCDATA) >
<!ELEMENT RequestSentDate (DateTime) >
<!ELEMENT PaymentDueDate (DateTime) >
<!ELEMENT Code2 (Domain,CodeValue) >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ATTLIST TelephoneNumber
    Type CDATA #IMPLIED >
<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

```

Payment, continued

```

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | Attachment) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code2) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT Domain (#PCDATA) >

<!ELEMENT CodeValue (#PCDATA) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

```

Payment, continued

```
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
          Domain CDATA #REQUIRED >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT Attachment (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ELEMENT ToDateTime (#PCDATA) >
```

Payment Response

```

<!ELEMENT PaymentResponse (Header,PaymentResponseBody) >
<!ATTLIST PaymentResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT PaymentResponseBody (PaymentResponseProperties?,PaymentResponseDetails,
    PaymentResponsePartners?) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PaymentResponseProperties (#PCDATA) >
<!ELEMENT PaymentResponseDetails (BuyerTransactionNumber,PaymentDate?,
    PaymentAmount?,ErrorStatus) >
<!ELEMENT PaymentResponsePartners (Buyer?,Seller?) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT BuyerTransactionNumber (#PCDATA) >
<!ELEMENT PaymentDate (DateTime) >
<!ELEMENT PaymentAmount (#PCDATA) >
<!ELEMENT ErrorStatus (AcceptanceFlag,ErrorDescription?) >
<!ELEMENT Buyer (PartnerInformation) >

```

Payment Response, continued

```

<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >
<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT AcceptanceFlag (#PCDATA) >
<!ELEMENT ErrorDescription (#PCDATA) >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >
<!ELEMENT AddressLine (#PCDATA) >

```

Payment Response, continued

```

<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
    TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT TelecomAreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >

```

Payment Detail

```

<!ELEMENT PaymentDetail (Header,PaymentDetailBody) >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT PaymentDetailBody (PaymentDetailProperties,PaymentDetailPartners,
    PaymentDetailDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PaymentDetailProperties (Language?,PrimaryCurrency,SecondCurrency?,
    CurrencyRates?,MarketPlaceInformation,BuyersTransactionNumber+) >
<!ELEMENT PaymentDetailPartners (Buyer,Seller,MarketPlace*,
    BuyerFinancialInstitution*,SellerFinancialInstitution*,
    MarketPlaceFinancialInstitution*) >
<!ELEMENT PaymentDetailDetails (DiscountAmount?,TotalAmountPaid,LineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (Code) >
<!ELEMENT PrimaryCurrency (CurrencyCode) >
<!ELEMENT SecondCurrency (CurrencyCode) >
<!ELEMENT CurrencyRates (SellersCurrency,BuyersCurrency,ExchangeRate) >
<!ELEMENT MarketPlaceInformation (MarketPlaceIdentifier,DocumentReference,
    SellerIdentifier,BuyerIdentifier) >

```

Payment Detail, continued

```

<!ELEMENT BuyersTransactionNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT MarketPlace (PartnerInformation) >
<!ELEMENT BuyerFinancialInstitution (PartnerInformation) >
<!ELEMENT SellerFinancialInstitution (PartnerInformation) >
<!ELEMENT MarketPlaceFinancialInstitution (PartnerInformation) >
<!ELEMENT DiscountAmount (#PCDATA) >
<!ELEMENT TotalAmountPaid (#PCDATA) >
<!ELEMENT LineItems (SellersInvoiceNumber*,InvoiceType*,InvoiceDate*,
    LineItemNumber?,LineItemDebitCreditIndicator?,
    SellerProductIdentification?,BuyerProductIdentification?,
    ProductQuantity?,UnitOfMeasure?,Pricing,PurchaseOrderNumber?,
    PurchaseOrderIssuedDate?,Taxable?,ShipmentTerms,FreightIncludedFlag?,
    Shipping?,Adjustments?,GrossInvoiceAmount) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code2) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT ContactInformation (ContactName?,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationIdentifier?,Comment) >
<!ATTLIST AddressInformation
    AdressType (Shipment | RailHead | Airport) #IMPLIED >
<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

```


Payment Detail, continued

```

<!ELEMENT URL    (#PCDATA) >
<!ELEMENT Code   (#PCDATA) >
<!ATTLIST Code
          Domain  CDATA      #REQUIRED >
<!ELEMENT CurrencyCode (Code) >
<!ELEMENT SellersCurrency (CurrencyCode) >
<!ELEMENT BuyersCurrency (CurrencyCode) >
<!ELEMENT ExchangeRate (#PCDATA) >
<!ELEMENT MarketPlaceIdentifier (Code) >
<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >
<!ATTLIST DocumentReference
          ReferenceType  NOTATION (PurchaseOrderNumber | PickUpNumber |
          | DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
          | PRONumber | AppointmentNumber | ShipmentIdentifier |
          | LoadPlanningNumber | BookingNumber | LineItemNumber |
          | SalesOrderReference | RequisitionNumber)  #IMPLIED >
<!ELEMENT SellerIdentifier (Code) >
<!ELEMENT BuyerIdentifier (Code) >
<!ELEMENT SellersInvoiceNumber (#PCDATA) >
<!ELEMENT InvoiceType (#PCDATA) >
<!ELEMENT InvoiceDate (DateTime) >
<!ELEMENT LineItemNumber (#PCDATA) >
<!ELEMENT LineItemDebitCreditIndicator (#PCDATA) >
<!ELEMENT SellerProductIdentification (ProductIdentification) >
<!ELEMENT BuyerProductIdentification (ProductIdentification) >
<!ELEMENT ProductQuantity (#PCDATA) >
<!ELEMENT UnitOfMeasure (#PCDATA) >
<!ELEMENT Pricing (MonetaryAmount,PriceBasis,PriceReason?) >

```

Payment Detail, continued

```

<!ELEMENT PurchaseOrderNumber (#PCDATA) >
<!ELEMENT PurchaseOrderIssuedDate (DateTime) >
<!ELEMENT Taxable (#PCDATA) >
<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >
<!ELEMENT FreightIncludedFlag (#PCDATA) >
<!ELEMENT Shipping (#PCDATA) >
<!ELEMENT Adjustments (AdjustmentCode,AdjustmentAmount,ReferenceIdentifier?) >
<!ELEMENT GrossInvoiceAmount (#PCDATA) >
<!ELEMENT Code2 (Domain,CodeValue) >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ATTLIST TelephoneNumber
    Type CDATA #IMPLIED >
<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >
<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >
<!ATTLIST AlternativeCommunicationMethod
    CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
    #IMPLIED >
<!ELEMENT AddressLine (#PCDATA) >
<!ELEMENT PostBoxNumber (#PCDATA) >
<!ELEMENT CityName (#PCDATA) >
<!ELEMENT StateProvince (#PCDATA) >
<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationIdentifier (Code2) >

```

Payment Detail, continued

```

<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
          TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code2) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT ProductIdentification (ProductIdentifier?,ProductDescription?,
                               ProductGradeDescription?) >
<!ELEMENT MonetaryAmount (#PCDATA) >
<!ATTLIST MonetaryAmount
          CurrencyCode CDATA #REQUIRED >
<!ELEMENT PriceBasis (#PCDATA) >
<!ELEMENT PriceReason (#PCDATA) >
<!ELEMENT ShipmentTermsCode (#PCDATA) >
<!ELEMENT ShipmentTermsLocation (#PCDATA) >
<!ELEMENT AdjustmentCode (#PCDATA) >
<!ELEMENT AdjustmentAmount (#PCDATA) >
<!ELEMENT ReferenceIdentifier (#PCDATA) >
<!ELEMENT Domain (#PCDATA) >
<!ELEMENT CodeValue (#PCDATA) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >

```

Payment Detail, continued

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT FromDateTime (#PCDATA) >

<!ELEMENT ToDateTime (#PCDATA) >

Forecasting

Demand Forecast

```

<!ELEMENT DemandForecast (Header,DemandForecastBody) >
<!ATTLIST DemandForecast
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT DemandForecastBody (DemandForecastProperties,DemandForecastPartners,
    DemandForecastDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT DemandForecastProperties (Language,ForecastReferenceNumber?,
    ContractNumber?) >
<!ELEMENT DemandForecastPartners (Buyer,Seller) >
<!ELEMENT DemandForecastDetails (ForecastLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT ForecastReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >

```

Demand Forecast, continued

```

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT ForecastLineItems (LineNumber?,ForecastProduct,ForecastHorizon?,
    Forecasts+) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT ForecastProduct ((BuyerProductCode | SellerProductCode)+,PackageType?,
    ShipTo,ShipFrom?,TransportMode?) >

<!ELEMENT ForecastHorizon (DateTimeRange,Duration?) >

<!ELEMENT Forecasts (LineNumber?,PlanWindow,PlanQuantity) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

```

Demand Forecast, continued

```

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT BuyerProductCode (#PCDATA) >

<!ELEMENT SellerProductCode (#PCDATA) >

<!ELEMENT PackageType (#PCDATA) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT ShipFrom (PartnerInformation) >

```

Demand Forecast, continued

```
<!ELEMENT TransportMode (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT Duration (#PCDATA) >
<!ATTLIST Duration
    TimeUnit (Hour | Day | Week | Month | Year) #REQUIRED >
<!ELEMENT PlanWindow (DateTimeRange,Duration?) >
<!ELEMENT PlanQuantity (Measurement) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT Measurement (#PCDATA) >
<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >
```


Demand Forecast Response

```

<!ELEMENT DemandForecastResponse (Header,DemandForecastResponseBody) >
<!ATTLIST DemandForecastResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT DemandForecastResponseBody (DemandForecastProperties,
    DemandForecastPartners,DemandForecastDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT DemandForecastProperties (Language,ForecastReferenceNumber?,
    ContractNumber?) >
<!ELEMENT DemandForecastPartners (Buyer,Seller) >
<!ELEMENT DemandForecastDetails (ForecastLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT ForecastReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >

```

Demand Forecast Response, continued

```

<!ELEMENT ForecastLineItems (LineNumber?,ForecastProduct,ForecastHorizon?,
    Forecasts+) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT ForecastProduct ((BuyerProductCode | SellerProductCode)+,PackageType?,
    ShipTo,ShipFrom?,TransportMode?) >

<!ELEMENT ForecastHorizon (DateTimeRange,Duration?) >

<!ELEMENT Forecasts (LineNumber?,PlanWindow,PlanQuantity) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

```

Demand Forecast Response, continued

```

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT BuyerProductCode (#PCDATA) >

<!ELEMENT SellerProductCode (#PCDATA) >

<!ELEMENT PackageType (#PCDATA) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT TransportMode (#PCDATA) >

```

Demand Forecast Response, continued

```
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT Duration (#PCDATA) >
<!ATTLIST Duration
    TimeUnit (Hour | Day | Week | Month | Year) #REQUIRED >
<!ELEMENT PlanWindow (DateTimeRange,Duration?) >
<!ELEMENT PlanQuantity (Measurement) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT Measurement (#PCDATA) >
<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >
```

Supply Plan

```

<!ELEMENT SupplyPlan (Header,SupplyPlanBody) >
<!ATTLIST SupplyPlan
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```

Supply Plan, continued

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Supply Plan, continued

```

<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DatetimeRange) >
<!ELEMENT DatetimeRange (FromDateTime?,SpecifiedDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT SpecifiedDateTime (#PCDATA) >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT SupplyPlanBody (SupplyPlanProperties,SupplyPlanPartners,
    SupplyPlanDetails) >
<!ELEMENT SupplyPlanProperties (Language,ReferenceNumber?,ContractNumber?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT ReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT SupplyPlanPartners (Buyer,Seller) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT SupplyPlanDetails (SupplyPlanLineItems+) >
<!ELEMENT SupplyPlanLineItems (LineNumber?,PlanProduct,PlanHorizon?,Plan+) >

```

Supply Plan, continued

```
<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT PlanProduct (SellerProductIdentifier+,PackageType?,ShipTo,ShipFrom?,
    TransportMode?) >

<!ELEMENT SellerProductIdentifier (Code) >

<!ELEMENT PackageType (#PCDATA) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT TransportMode (#PCDATA) >

<!ELEMENT PlanHorizon (DatetimeRange,Duration?) >

<!ELEMENT Duration (#PCDATA) >

<!ATTLIST Duration
    TimeUnit (Hour | Day | Week | Month | Year) #REQUIRED >

<!ELEMENT Plan (LineNumber?,PlanWindow,PlanQuantity) >

<!ELEMENT PlanWindow (DatetimeRange,Duration?) >

<!ELEMENT PlanQuantity (Measurement) >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >
```


Supply Plan Response

```

<!ELEMENT SupplyPlanResponse (Header,SupplyPlanResponseBody) >
<!ATTLIST SupplyPlanResponse
      Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
      RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT SupplyPlanResponseBody (SupplyPlanProperties,SupplyPlanPartners,
      SupplyPlanDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT SupplyPlanProperties (Language,ReferenceNumber?,ContractNumber?) >
<!ELEMENT SupplyPlanPartners (Buyer,Seller) >
<!ELEMENT SupplyPlanDetails (SupplyPlanLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
      TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
      ((PartnerName+,PartnerIdentifier),ContactInformation*,
      AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT ReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT SupplyPlanLineItems (LineNumber?,PlanProduct,PlanHorizon?,Plans+) >

```

Supply Plan Response, continued

```

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT PlanProduct ((BuyerProductCode |
    SellerProductCode)+,PackageType?,ShipTo,
    ShipFrom?,TransportMode?) >

<!ELEMENT PlanHorizon (DateTimeRange,Duration?) >

<!ELEMENT Plans (LineNumber?,PlanWindow,PlanQuantity) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

```

Supply Plan Response, continued

```

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT BuyerProductCode (Code) >

<!ELEMENT SellerProductCode (Code) >

<!ELEMENT PackageType (#PCDATA) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT TransportMode (#PCDATA) >

<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >

```

Supply Plan Response, continued

```
<!ELEMENT Duration (#PCDATA) >
<!ATTLIST Duration
    TimeUnit (Hour | Day | Week | Month | Year) #REQUIRED >
<!ELEMENT PlanWindow (DateTimeRange,Duration?) >
<!ELEMENT PlanQuantity (Measurement) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT Measurement (#PCDATA) >
<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >
```

Demand Plan

```

<!ELEMENT DemandPlan (Header,DemandPlanBody) >
<!ATTLIST DemandPlan
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT DemandPlanBody (DemandPlanProperties,DemandPlanPartners,
    DemandPlanDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT DemandPlanProperties (Language,ReferenceNumber?,ContractNumber?) >
<!ELEMENT DemandPlanPartners (Buyer,Seller) >
<!ELEMENT DemandPlanDetails (DemandPlanLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT ReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT DemandPlanLineItems (LineNumber?,PlanProduct,PlanHorizon?,Plans+) >

```

Demand Plan, continued

```

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT PlanProduct ((BuyerProductCode |
    SellerProductCode)+,PackageType?,ShipTo,
    ShipFrom?,TransportMode?) >

<!ELEMENT PlanHorizon (DateTimeRange,Duration?) >

<!ELEMENT Plans (LineNumber?,PlanWindow,PlanQuantity) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

```

Demand Plan, continued

```

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT BuyerProductCode (Code) >

<!ELEMENT SellerProductCode (Code) >

<!ELEMENT PackageType (#PCDATA) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT TransportMode (#PCDATA) >

<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >

```

Demand Plan, continued

```
<!ELEMENT Duration (#PCDATA) >
<!ATTLIST Duration
    TimeUnit (Hour | Day | Week | Month | Year) #REQUIRED >
<!ELEMENT PlanWindow (DateTimeRange,Duration?) >
<!ELEMENT PlanQuantity (Measurement) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT Measurement (#PCDATA) >
<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >
```


Demand Plan Response

```

<!ELEMENT DemandPlanResponse (Header,DemandPlanResponseBody) >
<!ATTLIST DemandPlanResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT DemandPlanResponseBody (DemandPlanProperties,DemandPlanPartners,
    DemandPlanDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT DemandPlanProperties (Language,ReferenceNumber?,ContractNumber?) >
<!ELEMENT DemandPlanPartners (Buyer,Seller) >
<!ELEMENT DemandPlanDetails (DemandPlanLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT ReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT DemandPlanLineItems (LineNumber?,PlanProduct,PlanHorizon?,Plans+) >

```

Demand Plan Response, continued

```

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT PlanProduct ((BuyerProductCode |
    SellerProductCode)+,PackageType?,ShipTo,
    ShipFrom?,TransportMode?) >

<!ELEMENT PlanHorizon (DateTimeRange,Duration?) >

<!ELEMENT Plans (LineNumber?,PlanWindow,PlanQuantity) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

```

Demand Plan Response, continued

```

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT BuyerProductCode (Code) >

<!ELEMENT SellerProductCode (Code) >

<!ELEMENT PackageType (#PCDATA) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT TransportMode (#PCDATA) >

<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >

```

Demand Plan Response, continued

```
<!ELEMENT Duration (#PCDATA) >
<!ATTLIST Duration
    TimeUnit (Hour | Day | Week | Month | Year) #REQUIRED >
<!ELEMENT PlanWindow (DateTimeRange,Duration?) >
<!ELEMENT PlanQuantity (Measurement) >
<!ELEMENT TelecomCountryCode (#PCDATA) >
<!ELEMENT AreaCode (#PCDATA) >
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT Measurement (#PCDATA) >
<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >
```

Replenishment Proposal Request

```

<!ELEMENT ReplenishmentProposalRequest (Header,ReplenishmentProposalRequestBody) >
<!ATTLIST ReplenishmentProposalRequest
          Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
                  RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ReplenishmentProposalRequestBody
(ReplenishmentProposalRequestProperties,
  ReplenishmentProposalRequestPartners,
  ReplenishmentProposalRequestDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT ReplenishmentProposalRequestProperties (Language,
          ReplenishmentProposalRequestReferenceNumber?,ContractNumber?) >
<!ELEMENT ReplenishmentProposalRequestPartners (Buyer,Seller) >
<!ELEMENT ReplenishmentProposalRequestDetails (
          ReplenishmentProposalRequestLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
          TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
  AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT ReplenishmentProposalRequestReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >

```

Replenishment Proposal Request, *continued*

```

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT ReplenishmentProposalRequestLineItems (LineNumber?,
    ReplenishmentProposalRequestLocation,
    ReplenishmentProposalRequestContent+) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT ReplenishmentProposalRequestLocation (PartnerInformation) >

<!ELEMENT ReplenishmentProposalRequestContent (LineNumber?,
    ReplenishmentProposalRequestProduct,StorageTankID?,
    ReplenishmentSummary) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

```

Replenishment Proposal Request, *continued*

```

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT ReplenishmentProposalRequestProduct ((BuyerProductCode |
      SellerProductCode)+, PackageType?) >

<!ELEMENT StorageTankID (#PCDATA) >

<!ELEMENT ReplenishmentSummary (ReceiptQuantity, UnitOfMeasureCode, (ShipDate |
      DeliveryDate)) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

```

Replenishment Proposal Request, *continued*

```
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT BuyerProductCode (Code) >
<!ELEMENT SellerProductCode (Code) >
<!ELEMENT PackageType (#PCDATA) >
<!ELEMENT ReceiptQuantity (#PCDATA) >
<!ELEMENT UnitOfMeasureCode (#PCDATA) >
<!ELEMENT ShipDate (DateTime) >
<!ELEMENT DeliveryDate (DateTime) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
```


Replenishment Proposal Response

```

<!ELEMENT ReplenishmentProposalResponse (Header,ReplenishmentProposalResponseBody)
>

<!ATTLIST ReplenishmentProposalResponse
          Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
                  RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >

<!ELEMENT ReplenishmentProposalResponseBody (ReplenishmentProposalProperties,
                                              ReplenishmentProposalPartners,ReplenishmentProposalDetails) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT ReplenishmentProposalProperties (Language,PurchaseOrderNumber?,
                                           ReplenishmentProposalReferenceNumber?,ContractNumber?) >

<!ELEMENT ReplenishmentProposalPartners (Buyer,Seller) >

<!ELEMENT ReplenishmentProposalDetails (ReplenishmentProposalLineItems+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
          TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
 AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT Language (#PCDATA) >

<!ELEMENT PurchaseOrderNumber (#PCDATA) >

<!ELEMENT ReplenishmentProposalReferenceNumber (#PCDATA) >

<!ELEMENT ContractNumber (#PCDATA) >

<!ELEMENT Buyer (PartnerInformation) >

```

Replenishment Proposal Response, continued

```

<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT ReplenishmentProposalLineItems (LineNumber?,
      ReplenishmentProposalLocation,ReplenishmentProposalContent+) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
      PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
      BillToParty | Consignee | NotifyParty | CareOfParty |
      UltimateConsignee | FreightForwarder | TransportationBroker |
      CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
      |
      SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
      FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >
<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT LineNumber (#PCDATA) >
<!ELEMENT ReplenishmentProposalLocation (PartnerInformation) >
<!ELEMENT ReplenishmentProposalContent
      (LineNumber?,ProposalProduct,StorageTankID?,
      ReplenishmentSummary) >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
      Domain CDATA #REQUIRED >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >

```

Replenishment Proposal Response, continued

```

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT ProposalProduct ((BuyerProductCode | SellerProductCode)+,PackageType?) >

<!ELEMENT StorageTankID (#PCDATA) >

<!ELEMENT ReplenishmentSummary (ReceiptQuantity,UnitOfMeasureCode,(ShipDate |
      DeliveryDate)) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

```

Replenishment Proposal Response, continued

```
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT BuyerProductCode (Code) >
<!ELEMENT SellerProductCode (Code) >
<!ELEMENT PackageType (#PCDATA) >
<!ELEMENT ReceiptQuantity (#PCDATA) >
<!ELEMENT UnitOfMeasureCode (#PCDATA) >
<!ELEMENT ShipDate (DateTime) >
<!ELEMENT DeliveryDate (DateTime) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
```

Replenishment Proposal Change

```

<!ELEMENT ReplenishmentProposalChange (Header,ReplenishmentProposalChangeBody) >
<!ATTLIST ReplenishmentProposalChange
          Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
                  RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ReplenishmentProposalChangeBody (ReplenishmentProposalProperties,
                                           ReplenishmentProposalPartners,ReplenishmentProposalDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT ReplenishmentProposalProperties (Language,PONumber?,
                                           ReplenishmentProposalReferenceNumber?,ContractNumber?) >
<!ELEMENT ReplenishmentProposalPartners (Buyer,Seller) >
<!ELEMENT ReplenishmentProposalDetails (ReplenishmentProposalLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
          TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
 AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT PONumber (#PCDATA) >
<!ELEMENT ReplenishmentProposalReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >

```

Replenishment Proposal Change, continued

```

<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT ReplenishmentProposalLineItems (LineNumber?,
      ReplenishmentProposalLocation,ReplenishmentProposalContent+) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
      PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
      BillToParty | Consignee | NotifyParty | CareOfParty |
      UltimateConsignee | FreightForwarder | TransportationBroker |
      CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
      |
      SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
      FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >
<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT LineNumber (#PCDATA) >
<!ELEMENT ReplenishmentProposalLocation (PartnerInformation) >
<!ELEMENT ReplenishmentProposalContent
      (LineNumber?,ProposalProduct,StorageTankID?,
      ReplenishmentSummary) >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
      Domain CDATA #REQUIRED >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >

```

Replenishment Proposal Change, continued

```

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT ProposalProduct ((BuyerProductCode | SellerProductCode)+,PackageType?) >

<!ELEMENT StorageTankID (#PCDATA) >

<!ELEMENT ReplenishmentSummary (ReceiptQuantity,UnitOfMeasureCode,(ShipDate |
      DeliveryDate)) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

```

Replenishment Proposal Change, continued

```
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT BuyerProductCode (Code) >
<!ELEMENT SellerProductCode (Code) >
<!ELEMENT PackageType (#PCDATA) >
<!ELEMENT ReceiptQuantity (#PCDATA) >
<!ELEMENT UnitOfMeasureCode (#PCDATA) >
<!ELEMENT ShipDate (DateTime) >
<!ELEMENT DeliveryDate (DateTime) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
```


Replenishment Proposal Cancel

```

<!ELEMENT ReplenishmentProposalCancel (Header,ReplenishmentProposalCancelBody) >
<!ATTLIST ReplenishmentProposalCancel
          Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
                  RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ReplenishmentProposalCancelBody (ReplenishmentProposalProperties,
                                           ReplenishmentProposalPartners,ReplenishmentProposalDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT ReplenishmentProposalProperties (Language,PONumber?,
                                           ReplenishmentProposalReferenceNumber?,ContractNumber?) >
<!ELEMENT ReplenishmentProposalPartners (Buyer,Seller) >
<!ELEMENT ReplenishmentProposalDetails (ReplenishmentProposalLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
          TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
 AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT PONumber (#PCDATA) >
<!ELEMENT ReplenishmentProposalReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >

```

Replenishment Proposal Cancel, *continued*

```

<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT ReplenishmentProposalLineItems (LineNumber?,
      ReplenishmentProposalLocation,ReplenishmentProposalContent+) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
      PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
      BillToParty | Consignee | NotifyParty | CareOfParty |
      UltimateConsignee | FreightForwarder | TransportationBroker |
      CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
      |
      SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
      FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >
<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT LineNumber (#PCDATA) >
<!ELEMENT ReplenishmentProposalLocation (PartnerInformation) >
<!ELEMENT ReplenishmentProposalContent
      (LineNumber?,ProposalProduct,StorageTankID?,
      ReplenishmentSummary) >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
      Domain CDATA #REQUIRED >
<!ELEMENT ContactName (#PCDATA) >
<!ELEMENT ContactDescription (#PCDATA) >
<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >
<!ELEMENT EmailAddress (#PCDATA) >

```

Replenishment Proposal Cancel, *continued*

```

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT ProposalProduct ((BuyerProductCode | SellerProductCode)+,PackageType?) >

<!ELEMENT StorageTankID (#PCDATA) >

<!ELEMENT ReplenishmentSummary (ReceiptQuantity,UnitOfMeasureCode,(ShipDate |
      DeliveryDate)) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

```

Replenishment Proposal Cancel, *continued*

```
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT BuyerProductCode (Code) >
<!ELEMENT SellerProductCode (Code) >
<!ELEMENT PackageType (#PCDATA) >
<!ELEMENT ReceiptQuantity (#PCDATA) >
<!ELEMENT UnitOfMeasureCode (#PCDATA) >
<!ELEMENT ShipDate (DateTime) >
<!ELEMENT DeliveryDate (DateTime) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
```

Inventory Actual Usage

```

<!ELEMENT InventoryActualUsage (Header,InventoryActualUsageBody) >
<!ATTLIST InventoryActualUsage
      Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
      RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT InventoryActualUsageBody (InventoryActualUsageProperties,
      InventoryActualUsagePartners,InventoryActualUsageDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT InventoryActualUsageProperties (Language,ForecastReferenceNumber?,
      ContractNumber?) >
<!ELEMENT InventoryActualUsagePartners (Buyer,Seller) >
<!ELEMENT InventoryActualUsageDetails (InventoryUsageLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
      TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
      ((PartnerName+,PartnerIdentifier),ContactInformation*,
      AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT ForecastReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >

```

Inventory Actual Usage, continued

```

<!ELEMENT InventoryUsageLineItems (LineNumber?,InventoryUsageLocation,
    InventoryUsage+) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT InventoryUsageLocation (PartnerInformation) >

<!ELEMENT InventoryUsage (LineNumber?,InventoryProduct,StorageTankID?,(
    InventoryLevel | ActualUsage)+) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

```

Inventory Actual Usage, continued

```

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT InventoryProduct ((BuyerProductCode | SellerProductCode)+,PackageType?)
>

<!ELEMENT StorageTankID (#PCDATA) >

<!ELEMENT InventoryLevel (OnSiteInventory,InTransitInventory?,UnitOfMeasureCode,
      DateTime) >

<!ELEMENT ActualUsage (Usage,UnitOfMeasureCode,DateTimeRange) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

```

Inventory Actual Usage, continued

```
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT BuyerProductCode (Code) >
<!ELEMENT SellerProductCode (Code) >
<!ELEMENT PackageType (#PCDATA) >
<!ELEMENT OnSiteInventory (TankInventory | OtherInventory)+ >
<!ELEMENT InTransitInventory (#PCDATA) >
<!ELEMENT UnitOfMeasureCode (#PCDATA) >
<!ELEMENT Usage (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT TankInventory (#PCDATA) >
<!ELEMENT OtherInventory (#PCDATA) >
```


Inventory Actual Usage Response

```

<!ELEMENT InventoryActualUsageResponse (Header,InventoryActualUsageResponseBody) >
<!ATTLIST InventoryActualUsageResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT InventoryActualUsageResponseBody
(InventoryActualUsageResponseProperties,
    InventoryActualUsageResponsePartners,
    InventoryActualUsageResponseDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT InventoryActualUsageResponseProperties
(Language,ForecastReferenceNumber?,
    ContractNumber?) >
<!ELEMENT InventoryActualUsageResponsePartners (Buyer,Seller) >
<!ELEMENT InventoryActualUsageResponseDetails (InventoryUsageLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT ForecastReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >

```

Inventory Actual Usage Response, *continued*

```

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT InventoryUsageLineItems (LineNumber?,InventoryUsageLocation,
    InventoryUsage+) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT InventoryUsageLocation (PartnerInformation) >

<!ELEMENT InventoryUsage (LineNumber?,InventoryProduct,StorageTankID?,(
    InventoryLevel | ActualUsage)+) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

```

Inventory Actual Usage Response, *continued*

```

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT InventoryProduct ((BuyerProductCode | SellerProductCode)+,PackageType?)
>

<!ELEMENT StorageTankID (#PCDATA) >

<!ELEMENT InventoryLevel (OnSiteInventory,InTransitInventory?,UnitOfMeasureCode,
      DateTime) >

<!ELEMENT ActualUsage (Usage,UnitOfMeasureCode,DateTimeRange) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

```

Inventory Actual Usage Response, *continued*

```
<!ELEMENT PhoneNumber (#PCDATA) >
<!ELEMENT Content (#PCDATA) >
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT BuyerProductCode (Code) >
<!ELEMENT SellerProductCode (Code) >
<!ELEMENT PackageType (#PCDATA) >
<!ELEMENT OnSiteInventory (TankInventory | OtherInventory)+ >
<!ELEMENT InTransitInventory (#PCDATA) >
<!ELEMENT UnitOfMeasureCode (#PCDATA) >
<!ELEMENT Usage (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT TankInventory (#PCDATA) >
<!ELEMENT OtherInventory (#PCDATA) >
```

Delivery Receipt

```

<!ELEMENT DeliveryReceipt (Header,DeliveryReceiptBody) >
<!ATTLIST DeliveryReceipt
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```

Delivery Receipt, *continued*

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Delivery Receipt, *continued*

```

<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT DeliveryReceiptBody (DeliveryReceiptProperties,DeliveryReceiptPartners,
    DeliveryReceiptDetails) >
<!ELEMENT DeliveryReceiptProperties (Language,PONumber?,ReferenceNumber?,
    ContractNumber?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT PONumber (#PCDATA) >
<!ELEMENT ReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT DeliveryReceiptPartners (Buyer,Seller) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT DeliveryReceiptDetails (DeliveryReceiptLineItems+) >

```

Delivery Receipt, *continued*

```
<!ELEMENT DeliveryReceiptLineItems (LineNumber?,DeliveryReceiptLocation,
    DeliveryContent+) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT DeliveryReceiptLocation (PartnerInformation) >

<!ELEMENT DeliveryContent (LineNumber?,DeliveryProduct,StorageTankID?,
    ReceiptSummary) >

<!ELEMENT DeliveryProduct ((BuyerProductCode | SellerProductCode)+,PackageType?) >

<!ELEMENT BuyerProductCode (Code) >

<!ELEMENT SellerProductCode (Code) >

<!ELEMENT PackageType (#PCDATA) >

<!ELEMENT StorageTankID (#PCDATA) >

<!ELEMENT ReceiptSummary (ReceiptQuantity,UnitOfMeasureCode,DateTime) >

<!ELEMENT ReceiptQuantity (#PCDATA) >

<!ELEMENT UnitOfMeasureCode (#PCDATA) >
```


Delivery Receipt Response

```

<!ELEMENT DeliveryReceiptResponse (Header,DeliveryReceiptBody) >
<!ATTLIST DeliveryReceiptResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT DeliveryReceiptBody (DeliveryReceiptProperties,DeliveryReceiptPartners,
    DeliveryReceiptDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT DeliveryReceiptProperties (Language,ReferenceNumber?,ContractNumber?) >
<!ELEMENT DeliveryReceiptPartners (Buyer,Seller) >
<!ELEMENT DeliveryReceiptDetails (DeliveryReceiptLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT Language (#PCDATA) >
<!ELEMENT ReferenceNumber (#PCDATA) >
<!ELEMENT ContractNumber (#PCDATA) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT Seller (PartnerInformation) >

```

Delivery Receipt Response, continued

```

<!ELEMENT DeliveryReceiptLineItems (LineNumber?,DeliveryReceiptLocation,
    DeliveryContent+) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT DeliveryReceiptLocation (PartnerInformation) >

<!ELEMENT DeliveryContent (LineNumber?,DeliveryProduct,StorageTankID?,
    ReceiptSummary) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
    Domain CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

```

Delivery Receipt Response, continued

```

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT EffectiveDates (DateTimeRange) >

<!ELEMENT DeliveryProduct ((BuyerProductCode | SellerProductCode)+,PackageType?) >

<!ELEMENT StorageTankID (#PCDATA) >

<!ELEMENT ReceiptSummary (ReceiptQuantity,UnitOfMeasureCode,DateTime) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT Content (#PCDATA) >

```

Delivery Receipt Response, continued

```
<!ELEMENT ExternalReference (#PCDATA) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT BuyerProductCode (Code) >
<!ELEMENT SellerProductCode (Code) >
<!ELEMENT PackageType (#PCDATA) >
<!ELEMENT ReceiptQuantity (#PCDATA) >
<!ELEMENT UnitOfMeasureCode (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
```

Exchange Interactions

Posting Create

```

<!ELEMENT PostingCreate (Header,PostingCreateBody) >

<!ATTLIST PostingCreate
    Version CDATA #FIXED "2.0" >

<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >

<!ELEMENT PostingCreateBody (PostingCreateProperties,PostingCreatePartners,
    PostingCreateDetails) >

<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT ThisDocumentDateTime (DateTime) >

<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >

<!ELEMENT RequestingDocumentDateTime (DateTime) >

<!ELEMENT From (PartnerInformation) >

<!ELEMENT To (PartnerInformation) >

<!ELEMENT PostingCreateProperties (PostingNumber,EffectiveDates?,
    PostingInstructions) >

<!ELEMENT PostingCreatePartners (Originator?,Audience?) >

<!ELEMENT PostingCreateDetails (PostingCreateLineItems+) >

<!ELEMENT DocumentIdentifier (#PCDATA) >

<!ELEMENT DateTime (#PCDATA) >

<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >

<!ELEMENT PostingNumber (DocumentReference) >

<!ATTLIST PostingNumber
    Type NOTATION (Buy | Sell) #IMPLIED >

<!ELEMENT EffectiveDates (DateTimeRange) >

```

Posting Create, continued

```

<!ELEMENT PostingInstructions (PostingType?,AllowExport?,AnonymityFlag?) >
<!ELEMENT Originator (PartnerInformation) >
<!ELEMENT Audience (PartnerInformation+) >
<!ELEMENT PostingCreateLineItems (LineNumber,ProductInformation,ProductQuantity,
    PriceInformation?,(ShippingAvailability | RequestedDelivery),
    SpecialPostingInstructions*,(ShipTo | ShipFrom?)) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >
<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >
<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber | PostingNumber)
    #REQUIRED >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT PostingType (#PCDATA) >
<!ELEMENT AllowExport (#PCDATA) >

```

Posting Create, *continued*

```

<!ELEMENT AnonymityFlag  (#PCDATA) >

<!ELEMENT LineNumber  (#PCDATA) >

<!ELEMENT ProductInformation  (ProductIdentification,ProductSpecifications*,
ProductClassificationCode*,PackagingInformation?,CountryOfOriginCode?,
MarketingName*,ManufacturerInformation?,ProductInformation*) >

<!ELEMENT ProductQuantity  (Measurement) >

<!ELEMENT PriceInformation  (UnitPrice,PriceShippingTerms) >

<!ELEMENT ShippingAvailability  (DateTime) >

<!ELEMENT RequestedDelivery  (DateTime) >

<!ELEMENT SpecialPostingInstructions  (#PCDATA) >

<!ELEMENT ShipTo  (PartnerInformation) >

<!ELEMENT ShipFrom  (PartnerInformation) >

<!ELEMENT Code  (#PCDATA) >

<!ATTLIST Code
      Domain  CDATA      #REQUIRED  >

<!ELEMENT ContactName  (#PCDATA) >

<!ELEMENT ContactDescription  (#PCDATA) >

<!ELEMENT TelephoneNumber  (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber  (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress  (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod  (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType  NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED  >

<!ELEMENT AddressLine  (#PCDATA) >

<!ELEMENT PostBoxNumber  (#PCDATA) >

<!ELEMENT CityName  (#PCDATA) >

<!ELEMENT StateProvince  (#PCDATA) >

```

Posting Create, *continued*

```

<!ELEMENT PostalCode (#PCDATA) >
<!ELEMENT PostalCountry (#PCDATA) >
<!ELEMENT LocationCode (Code) >
<!ELEMENT Comment (Content | ExternalReference) >
<!ELEMENT TaxIdentifierNumber (#PCDATA) >
<!ATTLIST TaxIdentifierNumber
          TaxType CDATA #REQUIRED >
<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT ReferenceItem (#PCDATA) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
          TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
          TimeZone CDATA #IMPLIED >
<!ELEMENT ProductIdentification (ProductIdentifier?,ProductDescription?,
          ProductGradeDescription?) >
<!ELEMENT ProductSpecifications (ProductSpecificationName,
          ProductSpecificationValue,ProductSpecificationUnit,
          ProductSpecificationMethod) >
<!ELEMENT ProductClassificationCode (Code) >
<!ELEMENT PackagingInformation (ProductIdentification,PackagingQuantity?,
          PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
          PackagingInformation*) >
<!ELEMENT CountryOfOriginCode (Code) >

```


Posting Create, continued

```

<!ELEMENT MarketingName (#PCDATA) >

<!ATTLIST MarketingName
      Registration NOTATION (RegisteredTradeMark | RegisteredTradeName)
      #REQUIRED >

<!ELEMENT ManufacturerInformation (PartnerName,PartnerInformation?,
      ProductIdentification?) >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
      UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT UnitPrice (MonetaryAmount) >

<!ATTLIST UnitPrice
      GlobalMaterialUnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT PriceShippingTerms (ShipmentTerms) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
      Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
      ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT ProductSpecificationName (#PCDATA) >

<!ELEMENT ProductSpecificationValue (#PCDATA) >

<!ELEMENT ProductSpecificationUnit (#PCDATA) >

<!ELEMENT ProductSpecificationMethod (Code) >

<!ELEMENT PackagingQuantity (#PCDATA) >

```

Posting Create, *continued*

```
<!ELEMENT PackagingType (#PCDATA) >
<!ELEMENT PackagingWeight (Measurement) >
<!ELEMENT PackagingLabel (#PCDATA) >
<!ELEMENT SpecialInstructions (#PCDATA) >
<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
|
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >
<!ELEMENT MonetaryAmount (#PCDATA) >
<!ATTLIST MonetaryAmount
    CurrencyCode CDATA #REQUIRED >
<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >
<!ELEMENT ShipmentTermsCode (Code) >
<!ELEMENT ShipmentTermsLocation (#PCDATA) >
```

Posting Response

```

<!ELEMENT PostingResponse (Header,PostingResponseBody) >
<!ATTLIST PostingResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```

Posting Response, *continued*

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Posting Response, *continued*

```

<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PostingResponseBody (PostingResponseProperties,PostingResponseDetails) >
<!ELEMENT PostingResponseProperties (PostingNumber,RespondersPostingNumber?,
    PostingResponseNumber,PostingResponseInformation*) >
<!ELEMENT PostingNumber (DocumentReference) >
<!ATTLIST PostingNumber
    Type NOTATION (Buy | Sell) #IMPLIED >
<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >
<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >
<!ELEMENT ReferenceItem (#PCDATA) >

```

Posting Response, *continued*

```
<!ELEMENT RespondersPostingNumber (DocumentReference) >
<!ELEMENT PostingResponseNumber (DocumentReference) >
<!ELEMENT PostingResponseInformation (#PCDATA) >
<!ELEMENT PostingResponseDetails (PostingResponseLineItems*) >
<!ELEMENT PostingResponseLineItems (LineNumber,LineItemRequestedAction,
    LineItemStatusInformation) >
<!ELEMENT LineNumber (#PCDATA) >
<!ELEMENT LineItemRequestedAction (#PCDATA) >
<!ATTLIST LineItemRequestedAction
    Actions NOTATION (Add | Modify | Delete) #IMPLIED >
<!ELEMENT LineItemStatusInformation (StatusInformation) >
<!ELEMENT StatusInformation (StatusCode,StatusEffectiveDate,StatusReason?) >
<!ELEMENT StatusCode (#PCDATA) >
<!ELEMENT StatusEffectiveDate (#PCDATA) >
<!ELEMENT StatusReason (#PCDATA) >
```

Posting Change

```

<!ELEMENT PostingChange (Header,PostingChangeBody) >
<!ATTLIST PostingChange
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT PostingChangeBody (PostingChangeProperties,PostingChangePartners,
    PostingChangeDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PostingChangeProperties (PostingNumber,EffectiveDates?) >
<!ELEMENT PostingChangePartners (Audience?) >
<!ELEMENT PostingChangeDetails (PostingChangeLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PostingNumber (DocumentReference) >
<!ATTLIST PostingNumber
    Type NOTATION (Buy | Sell) #IMPLIED >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT Audience (PartnerInformation+) >

```

Posting Change, continued

```

<!ELEMENT PostingChangeLineItems (LineNumber,LineItemRequestedAction,
    ProductInformation,ProductQuantity,PriceInformation?,(
    ShippingAvailability |
RequestedDelivery),SpecialPostingInstructions*,(
    ShipTo | ShipFrom?)) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
    StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
    TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber | PostingNumber)
    #REQUIRED >

<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT LineItemRequestedAction (#PCDATA) >

<!ELEMENT ProductInformation (ProductIdentification,ProductSpecifications*,
    ProductClassificationCode*,PackagingInformation?,CountryOfOriginCode?,
    MarketingName*,ManufacturerInformation?,ProductInformation*) >

```


Posting Change, continued

```

<!ELEMENT ProductQuantity (Measurement) >

<!ATTLIST ProductQuantity
      GlobalMaterialUnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT PriceInformation (UnitPrice,PriceShippingTerms) >

<!ELEMENT ShippingAvailability (ShippingAvailabilityAfterDateTime |
      ShippingAvailabilityOnDateTime |
      ShippingAvailabilityBetweenDateTime) >

<!ELEMENT RequestedDelivery (RequestedDeliveryByDateTime |
      RequestedDeliveryOnDateTime | RequestedDeliveryBetweenDateTime) >

<!ELEMENT SpecialPostingInstructions (#PCDATA) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
      Domain CDATA #REQUIRED >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

```

Posting Change, continued

```

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
    TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT FromDateTime (#PCDATA) >

<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT ToDateTime (#PCDATA) >

<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >

<!ELEMENT ProductIdentification (ProductIdentifier?,ProductDescription?,
    ProductGradeDescription?) >

<!ELEMENT ProductSpecifications (ProductSpecificationName,
    ProductSpecificationValue,ProductSpecificationUnit,
    ProductSpecificationMethod) >

<!ELEMENT ProductClassificationCode (Code) >

<!ELEMENT PackagingInformation (ProductIdentification,PackagingQuantity?,
    PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
    PackagingInformation*) >

<!ELEMENT CountryOfOriginCode (Code) >

<!ELEMENT MarketingName (#PCDATA) >

```

Posting Change, continued

```

<!ATTLIST MarketingName
      Registration NOTATION (RegisteredTradeMark | RegisteredTradeName)
      #REQUIRED >

<!ELEMENT ManufacturerInformation (PartnerName,PartnerInformation?,
      ProductIdentification?) >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
      UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT UnitPrice (#PCDATA) >

<!ATTLIST UnitPrice
      GlobalMaterialUnitOfMeasureCode CDATA #REQUIRED
      Currency CDATA #REQUIRED >

<!ELEMENT PriceShippingTerms (ShipmentTerms) >

<!ELEMENT ShippingAvailabilityAfterDateTime (#PCDATA) >

<!ELEMENT ShippingAvailabilityOnDateTime (#PCDATA) >

<!ELEMENT ShippingAvailabilityBetweenDateTime (ShippingAvailabilityStartDateTime,
      ShippingAvailabilityEndDateTime) >

<!ELEMENT RequestedDeliveryByDateTime (#PCDATA) >

<!ELEMENT RequestedDeliveryOnDateTime (#PCDATA) >

<!ELEMENT RequestedDeliveryBetweenDateTime (RequestedDeliveryStartDateTime,
      RequestedDeliveryEndDateTime) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
      Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
      ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

```

Posting Change, continued

```
<!ELEMENT ProductGradeDescription (#PCDATA) >
<!ELEMENT ProductSpecificationName (#PCDATA) >
<!ELEMENT ProductSpecificationValue (#PCDATA) >
<!ELEMENT ProductSpecificationUnit (#PCDATA) >
<!ELEMENT ProductSpecificationMethod (Code) >
<!ELEMENT PackagingQuantity (#PCDATA) >
<!ELEMENT PackagingType (#PCDATA) >
<!ELEMENT PackagingWeight (Measurement) >
<!ELEMENT PackagingLabel (#PCDATA) >
<!ELEMENT SpecialInstructions (#PCDATA) >
<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
|
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >
<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >
<!ELEMENT ShippingAvailabilityStartDateTime (#PCDATA) >
<!ELEMENT ShippingAvailabilityEndDateTime (#PCDATA) >
<!ELEMENT RequestedDeliveryStartDateTime (#PCDATA) >
<!ELEMENT RequestedDeliveryEndDateTime (#PCDATA) >
<!ELEMENT ShipmentTermsCode (Code) >
<!ELEMENT ShipmentTermsLocation (#PCDATA) >
```

Posting Cancel

```

<!ELEMENT PostingCancel (Header,PostingCancelBody) >
<!ATTLIST PostingCancel
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```

Posting Cancel, *continued*

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Posting Cancel, *continued*

```

<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DatetimeRange) >
<!ELEMENT DatetimeRange (FromDateTime?,SpecifiedDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT SpecifiedDateTime (#PCDATA) >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PostingCancelBody (PostingCancelProperties) >
<!ELEMENT PostingCancelProperties (PostingNumber,CancelReason*) >
<!ATTLIST PostingCancelProperties
    Type NOTATION (All | Nothing | Partial) #IMPLIED >
<!ELEMENT PostingNumber (DocumentReference) >
<!ATTLIST PostingNumber
    Type NOTATION (Buy | Sell) #IMPLIED >
<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

```

Posting Cancel, continued

```
<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT CancelReason (#PCDATA) >
```


Posting Cancel Response

```

<!ELEMENT PostingCancelResponse (Header,PostingCancelResponseBody) >
<!ATTLIST PostingCancelResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```

Posting Cancel Response, *continued*

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Posting Cancel Response, *continued*

```

<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DatetimeRange) >
<!ELEMENT DatetimeRange (FromDateTime?,SpecifiedDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT SpecifiedDateTime (#PCDATA) >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PostingCancelResponseBody (PostingCancelResponseProperties,
    PostingCancelResponseDetails) >
<!ELEMENT PostingCancelResponseProperties (PostingNumber,PostingCancelRequestType,
    PostingCancelResponseCode) >
<!ELEMENT PostingNumber (DocumentReference) >
<!ATTLIST PostingNumber
    Type NOTATION (Buy | Sell) #IMPLIED >
<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

```

Posting Cancel Response, continued

```
<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT PostingCancelRequestType (#PCDATA) >

<!ELEMENT PostingCancelResponseCode (#PCDATA) >

<!ELEMENT PostingCancelResponseDetails (PostingCancelLineItems*) >

<!ELEMENT PostingCancelLineItems (LineNumber,LineItemStatusInformation) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT LineItemStatusInformation (StatusInformation) >

<!ELEMENT StatusInformation (StatusCode,StatusEffectiveDate,StatusReason?) >

<!ELEMENT StatusCode (#PCDATA) >

<!ELEMENT StatusEffectiveDate (#PCDATA) >

<!ELEMENT StatusReason (#PCDATA) >
```

Posting Status Request

```

<!ELEMENT PostingStatusRequest (Header,PostingStatusRequestBody) >
<!ATTLIST PostingStatusRequest
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```

Posting Status Request, *continued*

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Posting Status Request, *continued*

```

<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PostingStatusRequestBody (PostingStatusRequestProperties,
    PostingStatusRequestDetails) >
<!ELEMENT PostingStatusRequestProperties (PostingNumber,PostingStatusRequestType)
>
<!ELEMENT PostingNumber (DocumentReference) >
<!ATTLIST PostingNumber
    Type NOTATION (Buy | Sell) #IMPLIED >
<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >
<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

```

Posting Status Request, *continued*

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT PostingStatusRequestType (#PCDATA) >

<!ELEMENT PostingStatusRequestDetails (LineNumber*) >

<!ELEMENT LineNumber (#PCDATA) >

Posting Status Response

```

<!ELEMENT PostingStatusResponse (Header,PostingStatusResponseBody) >
<!ATTLIST PostingStatusResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT PostingStatusResponseBody (PostingStatusResponseProperties,
    PostingStatusResponseDetails) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PostingStatusResponseProperties
    (PostingNumber,PostingStatusResponseCode) >
<!ELEMENT PostingStatusResponseDetails (EffectiveDates?,Originator?,Audience?,
    PostingStatusResponseLineItems+) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT PartnerInformation
    ((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PostingNumber (DocumentReference) >
<!ATTLIST PostingNumber
    Type NOTATION (Buy | Sell) #IMPLIED >
<!ELEMENT PostingStatusResponseCode (Code) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT Originator (PartnerInformation) >

```

Posting Status Response, continued

```

<!ELEMENT Audience (PartnerInformation+) >

<!ELEMENT PostingStatusResponseLineItems (LineNumber,LineItemStatusInformation,
      ProductInformation,ProductQuantity,PriceInformation?,(
      ShippingAvailability |
RequestedDelivery),SpecialPostingInstructions*,(
      ShipTo | ShipFrom)?) >

<!ELEMENT PartnerName (#PCDATA) >

<!ELEMENT PartnerIdentifier (Code) >

<!ATTLIST PartnerIdentifier
      PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
      BillToParty | Consignee | NotifyParty | CareOfParty |
      UltimateConsignee | FreightForwarder | TransportationBroker |
      CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
      |
      SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >

<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
      FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT URL (#PCDATA) >

<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

<!ATTLIST DocumentReference
      ReferenceType NOTATION (PurchaseOrderNumber | PickupNumber |
      DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
      |
      PRONumber | AppointmentNumber | ShipmentIdentifier |
      LoadPlanningNumber | BookingNumber | LineItemNumber |
      SalesOrderReference | RequisitionNumber | LetterOfCredit |
      CustomerMasterRecordNumber | RequestForQuoteNumber | PostingNumber)
      #REQUIRED >

<!ELEMENT Code (#PCDATA) >

<!ATTLIST Code
      Domain CDATA #REQUIRED >

<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >

```

Posting Status Response, continued

```

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT LineItemStatusInformation (StatusInformation) >

<!ELEMENT ProductInformation (ProductIdentification,ProductSpecifications*,
ProductClassificationCode*,PackagingInformation?,CountryOfOriginCode?,
MarketingName*,ManufacturerInformation?,ProductInformation*) >

<!ELEMENT ProductQuantity (Measurement) >

<!ELEMENT PriceInformation (UnitPrice,PriceShippingTerms) >

<!ELEMENT ShippingAvailability (DateTime) >

<!ELEMENT RequestedDelivery (DateTime) >

<!ELEMENT SpecialPostingInstructions (#PCDATA) >

<!ELEMENT ShipTo (PartnerInformation) >

<!ELEMENT ShipFrom (PartnerInformation) >

<!ELEMENT ContactName (#PCDATA) >

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT FaxNumber (TelecomCountryCode,AreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
#IMPLIED >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

```

Posting Status Response, continued

```

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
          TaxType CDATA #REQUIRED >

<!ELEMENT Jurisdiction (#PCDATA) >

<!ELEMENT TaxCertificateType (Code) >

<!ELEMENT TaxCertificateNumber (#PCDATA) >

<!ELEMENT TaxBasis (#PCDATA) >

<!ELEMENT TaxRate (#PCDATA) >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT FromDateTime (#PCDATA) >

<!ATTLIST FromDateTime
          TimeZone CDATA #IMPLIED >

<!ELEMENT ToDateTime (#PCDATA) >

<!ATTLIST ToDateTime
          TimeZone CDATA #IMPLIED >

<!ELEMENT StatusInformation (StatusCode,StatusEffectiveDate,StatusReason?) >

<!ELEMENT ProductIdentification (ProductIdentifier?,ProductDescription?,
          ProductGradeDescription?) >

<!ELEMENT ProductSpecifications (ProductSpecificationName,
          ProductSpecificationValue,ProductSpecificationUnit,
          ProductSpecificationMethod) >

<!ELEMENT ProductClassificationCode (Code) >

<!ELEMENT PackagingInformation (ProductIdentification,PackagingQuantity?,
PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
          PackagingInformation*) >

<!ELEMENT CountryOfOriginCode (Code) >

<!ELEMENT MarketingName (#PCDATA) >

```

Posting Status Response, continued

```

<!ATTLIST MarketingName
    Registration NOTATION (RegisteredTradeMark | RegisteredTradeName)
    #REQUIRED >

<!ELEMENT ManufacturerInformation (PartnerName,PartnerInformation?,
    ProductIdentification?) >

<!ELEMENT Measurement (#PCDATA) >

<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT UnitPrice (MonetaryAmount) >

<!ATTLIST UnitPrice
    GlobalMaterialUnitOfMeasureCode CDATA #REQUIRED >

<!ELEMENT PriceShippingTerms (ShipmentTerms) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT AreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT StatusCode (#PCDATA) >

<!ELEMENT StatusEffectiveDate (#PCDATA) >

<!ELEMENT StatusReason (#PCDATA) >

<!ELEMENT ProductIdentifier (#PCDATA) >

<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >

<!ELEMENT ProductDescription (#PCDATA) >

<!ELEMENT ProductGradeDescription (#PCDATA) >

<!ELEMENT ProductSpecificationName (#PCDATA) >

<!ELEMENT ProductSpecificationValue (#PCDATA) >

<!ELEMENT ProductSpecificationUnit (#PCDATA) >

```

Posting Status Response, continued

```
<!ELEMENT ProductSpecificationMethod (Code) >
<!ELEMENT PackagingQuantity (#PCDATA) >
<!ELEMENT PackagingType (#PCDATA) >
<!ELEMENT PackagingWeight (Measurement) >
<!ELEMENT PackagingLabel (#PCDATA) >
<!ELEMENT SpecialInstructions (#PCDATA) >
<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
|
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >
<!ELEMENT MonetaryAmount (#PCDATA) >
<!ATTLIST MonetaryAmount
    CurrencyCode CDATA #REQUIRED >
<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >
<!ELEMENT ShipmentTermsCode (Code) >
<!ELEMENT ShipmentTermsLocation (#PCDATA) >
```

Posting Accept

```

<!ELEMENT PostingAccept (Header,PostingAcceptBody) >
<!ATTLIST PostingAccept
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```

Posting Accept, continued

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```


Posting Accept, continued

```

<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DateTimeRange) >
<!ELEMENT DateTimeRange (FromDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PostingAcceptBody (PostingAcceptProperties,PostingAcceptPartners,
    PostingAcceptDetails) >
<!ELEMENT PostingAcceptProperties (PostingNumber) >
<!ELEMENT PostingNumber (DocumentReference) >
<!ATTLIST PostingNumber
    Type NOTATION (Buy | Sell) #IMPLIED >
<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >
<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >
<!ELEMENT ReferenceItem (#PCDATA) >

```

Posting Accept, continued

```

<!ELEMENT PostingAcceptPartners (Seller | Buyer) >
<!ELEMENT Seller (PartnerInformation) >
<!ELEMENT Buyer (PartnerInformation) >
<!ELEMENT PostingAcceptDetails (PostingAcceptLineItems+) >
<!ELEMENT PostingAcceptLineItems (LineNumber,ProductInformation,ProductQuantity,
    PriceInformation?,(ShippingAvailability | RequestedDelivery),
    SpecialPostingInstructions*,(ShipTo | ShipFrom)?) >
<!ELEMENT LineNumber (#PCDATA) >
<!ELEMENT ProductInformation (ProductIdentification,ProductSpecification*,
    ProductClassificationCode*,PackagingInformation?,CountryOfOriginCode?,
    MarketingName*,ManufacturerInformation?,ProductInformation*) >
<!ELEMENT ProductIdentification (ProductIdentifier+,ProductDescription?,
    ProductGradeDescription?) >
<!ELEMENT ProductIdentifier (#PCDATA) >
<!ATTLIST ProductIdentifier
    Agency NOTATION (ISO | EAN | AssignedBySupplier | AssignedByBuyer |
    ANSI | GBABA | EDIFACT | AssignedByManufacturer) #REQUIRED >
<!ELEMENT ProductDescription (#PCDATA) >
<!ELEMENT ProductGradeDescription (#PCDATA) >
<!ELEMENT ProductSpecification
    (ProductSpecificationName,ProductSpecificationValue,
    ProductSpecificationUnit,ProductSpecificationMethod) >
<!ELEMENT ProductSpecificationName (#PCDATA) >
<!ELEMENT ProductSpecificationValue (#PCDATA) >
<!ELEMENT ProductSpecificationUnit (#PCDATA) >
<!ELEMENT ProductSpecificationMethod (Code) >
<!ELEMENT ProductClassificationCode (Code) >
<!ELEMENT PackagingInformation (ProductIdentification?,PackagingQuantity?,
    PackagingType?,PackagingWeight?,PackagingLabel?,SpecialInstructions*,
    PackagingInformation*) >

```

Posting Accept, *continued*

```

<!ELEMENT PackagingQuantity (#PCDATA) >
<!ELEMENT PackagingType (#PCDATA) >
<!ELEMENT PackagingWeight (Measurement) >
<!ELEMENT Measurement (#PCDATA) >
<!ATTLIST Measurement
    UnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT PackagingLabel (#PCDATA) >
<!ELEMENT SpecialInstructions (#PCDATA) >
<!ATTLIST SpecialInstructions
    InstructionType NOTATION (ShipperInstructions | CarrierInstructions
|
    ConsigneeInstructions | DriverInstructions | Tolerances |
    RoutingInstructions | EmptyReturnInstructions | ShortLeadTime |
    InspectionInstructions) #REQUIRED >
<!ELEMENT CountryOfOriginCode (Code) >
<!ELEMENT MarketingName (#PCDATA) >
<!ATTLIST MarketingName
    Registration NOTATION (RegisteredTradeMark | RegisteredTradeName)
    #REQUIRED >
<!ELEMENT ManufacturerInformation (PartnerName,PartnerInformation?,
    ProductIdentification?) >
<!ELEMENT ProductQuantity (Measurement) >
<!ELEMENT PriceInformation (UnitPrice,PriceShippingTerms) >
<!ELEMENT UnitPrice (MonetaryAmount) >
<!ATTLIST UnitPrice
    GlobalMaterialUnitOfMeasureCode CDATA #REQUIRED >
<!ELEMENT MonetaryAmount (#PCDATA) >
<!ATTLIST MonetaryAmount
    CurrencyCode CDATA #REQUIRED >
<!ELEMENT PriceShippingTerms (ShipmentTerms) >
<!ELEMENT ShipmentTerms (ShipmentTermsCode,ShipmentTermsLocation) >

```

Posting Accept, *continued*

```
<!ELEMENT ShipmentTermsCode (Code) >  
<!ELEMENT ShipmentTermsLocation (#PCDATA) >  
<!ELEMENT ShippingAvailability (DateTime) >  
<!ELEMENT RequestedDelivery (DateTime) >  
<!ELEMENT SpecialPostingInstructions (#PCDATA) >  
<!ELEMENT ShipTo (PartnerInformation) >  
<!ELEMENT ShipFrom (PartnerInformation) >
```

Posting Accept Response

```

<!ELEMENT PostingAcceptResponse (Header,PostingAcceptResponseBody) >
<!ATTLIST PostingAcceptResponse
    Version CDATA #FIXED "2.0" >
<!ELEMENT Header (ThisDocumentIdentifier,ThisDocumentDateTime,
    RequestingDocumentIdentifier?,RequestingDocumentDateTime?,From,To) >
<!ELEMENT ThisDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT DocumentIdentifier (#PCDATA) >
<!ELEMENT ThisDocumentDateTime (DateTime) >
<!ELEMENT DateTime (#PCDATA) >
<!ATTLIST DateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT RequestingDocumentIdentifier (DocumentIdentifier) >
<!ELEMENT RequestingDocumentDateTime (DateTime) >
<!ELEMENT From (PartnerInformation) >
<!ELEMENT PartnerInformation
((PartnerName+,PartnerIdentifier),ContactInformation*,
    AddressInformation?,TaxInformation*,URL?) >
<!ELEMENT PartnerName (#PCDATA) >
<!ELEMENT PartnerIdentifier (Code) >
<!ATTLIST PartnerIdentifier
    PartnerRole NOTATION (Shipper | Carrier | CustomsBroker |
    BillToParty | Consignee | NotifyParty | CareOfParty |
    UltimateConsignee | FreightForwarder | TransportationBroker |
    CommodityBroker | BeneficialOwner | Sender | Receiver | Marketplace
    |
    SoldTo | Inspection | ShipTo | Buyer | Seller) #REQUIRED >
<!ELEMENT Code (#PCDATA) >
<!ATTLIST Code
    Domain CDATA #REQUIRED >
<!ELEMENT ContactInformation (ContactName*,ContactDescription?,(TelephoneNumber |
    FaxNumber | EmailAddress | AlternativeCommunicationMethod)+) >
<!ELEMENT ContactName (#PCDATA) >

```

Posting Accept Response, continued

```

<!ELEMENT ContactDescription (#PCDATA) >

<!ELEMENT TelephoneNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT TelecomCountryCode (#PCDATA) >

<!ELEMENT TelecomAreaCode (#PCDATA) >

<!ELEMENT PhoneNumber (#PCDATA) >

<!ELEMENT FaxNumber (TelecomCountryCode,TelecomAreaCode,PhoneNumber) >

<!ELEMENT EmailAddress (#PCDATA) >

<!ELEMENT AlternativeCommunicationMethod (#PCDATA) >

<!ATTLIST AlternativeCommunicationMethod
      CommunicationMethodType NOTATION (StationCode | Telex | PrinterId)
      #IMPLIED >

<!ELEMENT AddressInformation ((AddressLine+ | PostBoxNumber),CityName,
      StateProvince?,PostalCode?,PostalCountry,LocationCode?,Comment?) >

<!ELEMENT AddressLine (#PCDATA) >

<!ELEMENT PostBoxNumber (#PCDATA) >

<!ELEMENT CityName (#PCDATA) >

<!ELEMENT StateProvince (#PCDATA) >

<!ELEMENT PostalCode (#PCDATA) >

<!ELEMENT PostalCountry (#PCDATA) >

<!ELEMENT LocationCode (Code) >

<!ELEMENT Comment (Content | ExternalReference) >

<!ELEMENT Content (#PCDATA) >

<!ELEMENT ExternalReference (#PCDATA) >

<!ELEMENT TaxInformation (TaxIdentifierNumber,Jurisdiction?,TaxCertificateType?,
      TaxCertificateNumber?,TaxBasis?,TaxRate?,EffectiveDates?) >

<!ELEMENT TaxIdentifierNumber (#PCDATA) >

<!ATTLIST TaxIdentifierNumber
      TaxType CDATA #REQUIRED >

```

Posting Accept Response, *continued*

```

<!ELEMENT Jurisdiction (#PCDATA) >
<!ELEMENT TaxCertificateType (Code) >
<!ELEMENT TaxCertificateNumber (#PCDATA) >
<!ELEMENT TaxBasis (#PCDATA) >
<!ELEMENT TaxRate (#PCDATA) >
<!ELEMENT EffectiveDates (DatetimeRange) >
<!ELEMENT DatetimeRange (FromDateTime?,SpecifiedDateTime?,ToDateTime?) >
<!ELEMENT FromDateTime (#PCDATA) >
<!ATTLIST FromDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT SpecifiedDateTime (#PCDATA) >
<!ELEMENT ToDateTime (#PCDATA) >
<!ATTLIST ToDateTime
    TimeZone CDATA #IMPLIED >
<!ELEMENT URL (#PCDATA) >
<!ELEMENT To (PartnerInformation) >
<!ELEMENT PostingAcceptResponseBody (PostingAcceptResponseProperties,
    PostingAcceptResponsePartners?,PostingAcceptResponseDetails) >
<!ELEMENT PostingAcceptResponseProperties (PostingNumber,PostingAcceptNumber) >
<!ATTLIST PostingAcceptResponseProperties
    Type NOTATION (Accept | Reject) #IMPLIED >
<!ELEMENT PostingNumber (DocumentReference) >
<!ATTLIST PostingNumber
    Type NOTATION (Buy | Sell) #IMPLIED >
<!ELEMENT DocumentReference (DocumentIdentifier,ReferenceItem?) >

```

Posting Accept Response, continued

```

<!ATTLIST DocumentReference
    ReferenceType NOTATION (PurchaseOrderNumber | PickUpNumber |
    DeliveryNote | Authorization | CustomerOrderNumber | ContractNumber
    |
    PRONumber | AppointmentNumber | ShipmentIdentifier |
    LoadPlanningNumber | BookingNumber | LineItemNumber |
    SalesOrderReference | RequisitionNumber | LetterOfCredit |
    CustomerMasterRecordNumber | RequestForQuoteNumber) #REQUIRED >

<!ELEMENT ReferenceItem (#PCDATA) >

<!ELEMENT PostingAcceptNumber (#PCDATA) >

<!ELEMENT PostingAcceptResponsePartners (Buyer,Seller) >

<!ELEMENT Buyer (PartnerInformation) >

<!ELEMENT Seller (PartnerInformation) >

<!ELEMENT PostingAcceptResponseDetails (PostingAcceptResponseLineItems+) >

<!ELEMENT PostingAcceptResponseLineItems (LineNumber,LineItemAcceptanceStatus) >

<!ELEMENT LineNumber (#PCDATA) >

<!ELEMENT LineItemAcceptanceStatus (StatusInformation) >

<!ELEMENT StatusInformation (StatusCode,StatusEffectiveDate,StatusReason?) >

<!ELEMENT StatusCode (#PCDATA) >

<!ELEMENT StatusEffectiveDate (#PCDATA) >

<!ELEMENT StatusReason (#PCDATA) >

```


Common Data Elements

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Appendix F – Common Data Elements

This Appendix is a collection of data elements that are common to the business transactions in Chem Standards.

AccountInformation	AdditionalReference	AddressInformation
Code	Comment	ContactInformation
CurrencyCode	CurrencyRates	CustomsInformation
DateTime	DateTimeRange	DocumentIdentifier
DocumentReference	Duration	EffectiveDates
HazardousGoods	Header	LanguageCode
LetterOfCreditInformation	LoadTenderNumber	MarketplaceInformation
Measurement	MeasurementRange	MonetaryAmount
PackagingInformation	PartnerInformation	PaymentTerms
PriceInformation	Pricing	ProductInformation
ProductSpecifications	PurchaseOrderInformation	RequestedDocument
ShippingInformation	ShipmentTerms	SpecialInstructions
SpecialInvoicePreference	StatusInformation	TaxInformation
TransportInformation		

Key:

Icon	Description
~	Data element has attribute(s)
?	Data element occurs 0-1 times
*	Data element occurs 0-many times
+	Data element occurs 1-many times
< connecting data elements	Contains one of the child data elements
[connecting data elements	Contains all of the child data elements
Square box with lines	Data

Common Structures

Aug. 2000	Initial Release 1.0
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Appendix F – Common Data Elements, continued

Jan. 2001	<p>Generic changes in Release 2.0:</p> <ul style="list-style-type: none"> • The transaction name has been put in front of each Body structure, of each Properties structure, of each Partners structure and of each Details structure and of each ProductLineItem structure to make these structures unique (eg Body within the RFQ transaction becomes RequestForQuoteBody). • The PartnerRoleDescription linked to the FromRole and ToRole structures within the Header has been replaced by the PartnerData structure. • The Supplier structure has renamed into the Seller structure. All references to the word 'supplier' have been replaced by the word 'seller' to reflect the combination Buyer-Seller. • The DeliverToPartnerData structure and the DeliverTo structure are renamed into ShipTo and linked to the PartnerData structure. • The new structure Payer is linked to the existing structure PartnerData and with the structure AccountInformation. • All references to the elements GlobalMaterialIdentifier, Product, BuyerPartnerNumber and SellerPartNumber have been replaced by a new structure ProductInformation (or a substructure of this, being ProductIdentification). • Most of the elements reflecting a quantity have been linked to a new element Measurement, which has the attribute UnitOfMeasureCode. • Most of the elements reflecting a quantity range have been linked to a new element MeasurementRange, which has the attribute UnitOfMeasureCode. • Most of the elements reflecting a value have been linked to a new element MonetaryAmount, which has the attribute Currency. • Most of the elements which have a code list have been linked to a new element Code, which has the attribute Domain (which indicates the code list). Also the elementname will end on 'Code'. • Most of the elements which are boolean have been renamed where the element name will end on 'Flag'. • Most of the elements reflecting a date have been linked to a new element DateTime, which has the attribute TimeZone. • Most of the elements reflecting a date range have been linked to a new element DateTimeRange, which has the attribute TimeZone. • Most of the elements reflecting a duration have been linked to a new element Duration, which has the attribute TimeUnit. • Most of the elements reflecting a documentnumber have been linked to the new structure DocumentReference (which has an attribute ReferenceType), which contains the element DocumentIdentifier and the optional element ReferenceItem.
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Appendix F – Common Data Elements, continued

Jan. 2001	<ul style="list-style-type: none"> • All price data has been put into several new structures (ListPrice, RequestedPrice, ConfirmedPrice) which are all linked to a new structure Pricing, which contains the element MonetaryAmount, PriceBasis (both mandatory) and PriceReason (optional) <p>PartnerData</p> <ul style="list-style-type: none"> • Most of the partners have the PartnerData structure linked to. In principle, partners are always in the Partners structure within the Body structure. In some transactions, specific partners can be found also within the ProductLineItem or Properties structure. • The element GlobalLocationIdentifier was replaced by the element LocationCode, and moved within the PartnerData structure to the AddressInformation structure, and has changed from mandatory occurrence to 0-1 occurrence. • The element PartnerName within the PartnerData structure has changed from 0-many occurrences to 1-many occurrences. • A new structure AddressInformation with 0-many occurrences has been created to contain all address related data • A new element StateProvince has with 0-1 occurrence replaces the RegionName element. It will cover either the State, the Province or the Region and is put within the AddressInformation structure. • The element URL has been added to the PartnerInformation structure with 0-1 occurrence. • A new structure TaxInformation has been added to the PartnerInformation structure with 0-many occurrences. The structure contains different tax relevant fields. • The ContactName within the ContactInformation structure has changed from 0-1 occurrences to 1-many occurrences. • The Fax structure was renamed into FaxNumber. • In both the TelephoneNumber and FaxNumber structure, the Countrycode was renamed into TelecomCountryCode and has changed from 0-1 occurrence to mandatory occurrence. • The element AddressLine within the PartnerData structure has changed from 0-many occurrences to 1-many occurrences. • The elements AddressLine and PostBoxNumber (PostOfficeBoxIdentifier in phase 1) have been put into an either/or structure. <p>AccountInformation</p> <ul style="list-style-type: none"> • The element AccountName within the AccountInformation structure was renamed into AccountHolderName and has changed mandatory occurrence to 1-many occurrences. • An either / or structure was created within AccountInformation, with on one hand the information on bank account data, and on the other information on creditcard data. The bank account data contains the element AccountNumber, the new element FinancialInstitution, and the new element FinancialInstitutionDFINumber (all optional). The creditcard data contains the new element CreditCardNumber, the new element CreditCardType, and the new structure CreditCardExpirationDate (linked to the element DateTime) which replaces the phase 1 element ExpirationDate, all
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	again optionally.
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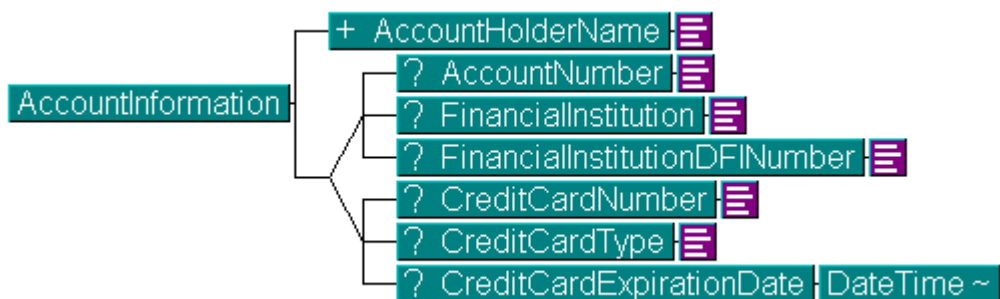


Figure F.a: The AccountInformation structure identifies account information for a financial institution or a credit card in relation to a specific party involved in a transaction.



Figure F.b: The AdditionalReference structure identifies additional document(s) that relate to a transaction.

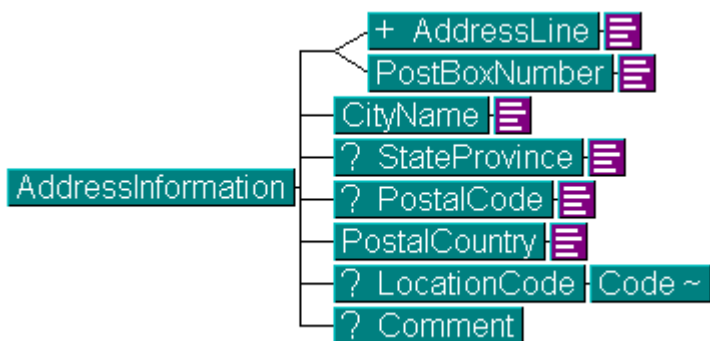


Figure F.c: The AddressInformation structure.



Figure F.d: The Code structure provides a specific code by which to further identify the value of an element. In addition, the Code structure has a 'Domain' attribute that represents the code list from which the code was derived.

Appendix F – Common Data Elements, continued



Figure F.e: The Comment structure allows for general comments relating to the entire transaction or identifying an external reference.

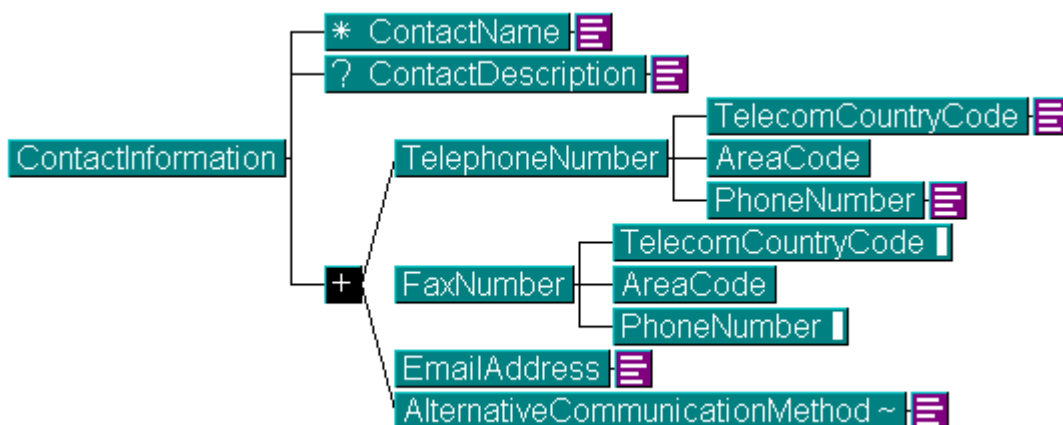


Figure F.f: The ContactInformation structure provides detailed contact information relating to a party involved in a transaction. This structure identifies a contact name, description and a method in which to contact the party.



Figure F.g: The CurrencyCode structure identifies the primary currency of a transaction.



Figure F.h: The CurrencyRates structure.

Appendix F – Common Data Elements, continued



Figure F.i: The CustomsInformation structure.



Figure F.j: The DateTime structure provides a date, time or both relative to a transaction or structure within a transaction.



Figure F.k: The DateTimeRange structure provides a date or time range relative to a transaction or structure within a transaction.



Figure F.l: The DocumentIdentifier structure identifies a specific document in the form of a unique identifier.

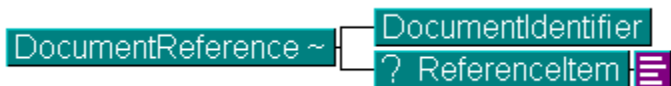


Figure F.m: The DocumentReference structure identifies additional documents and a possible relationship to a line item.

Appendix F – Common Data Elements, continued



Figure F.n: The Duration structure identifies a measure of time.



Figure F.o: The EffectiveDates structure provides a date or time range in relation to transaction or structure within a transaction.

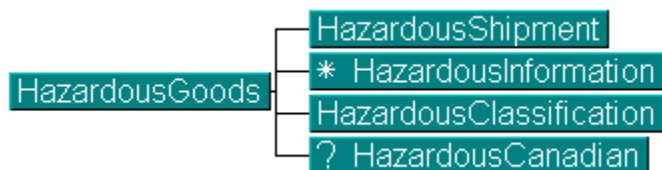


Figure F.p: HazardousGoods structure

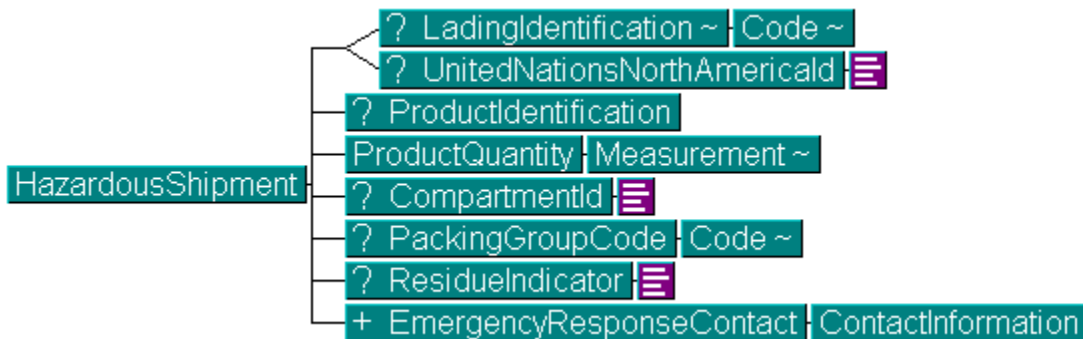


Figure F.p: HazardousGoods sub-structure (part 1)

Appendix F – Common Data Elements, continued



Figure F.p: HazardousGoods sub-structure (part 2)

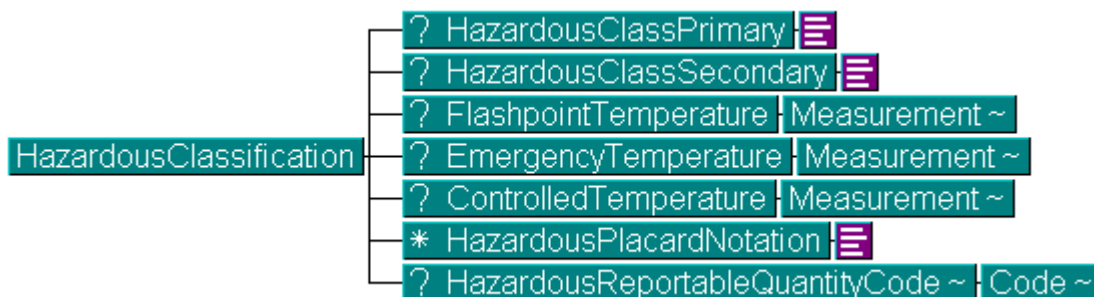


Figure F.p: HazardousGoods sub-structure (part 3)

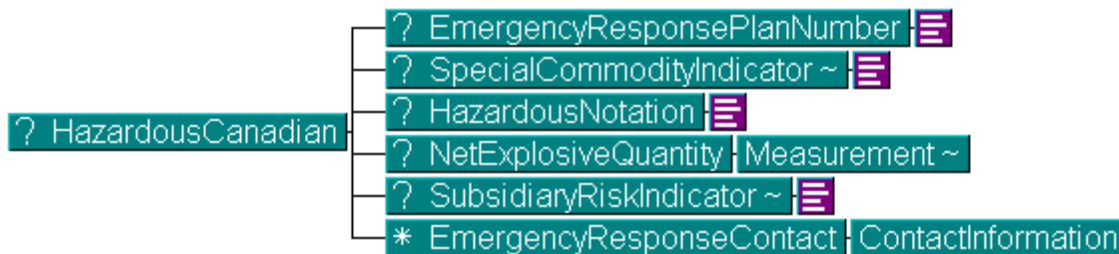


Figure F.p: HazardousGoods sub-structure (part 4)

Appendix F – Common Data Elements, continued

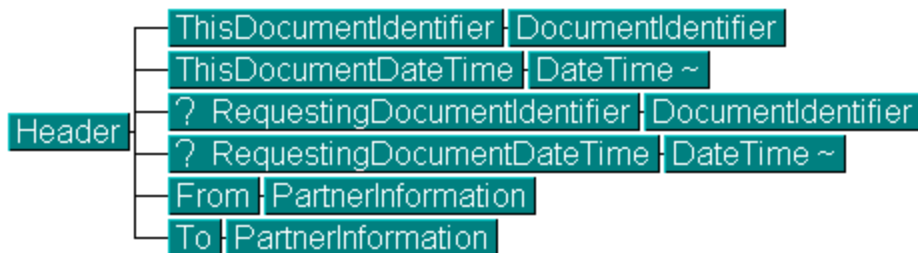


Figure F.q: The Header structure provides information identifying the specific transaction in which it is being used such as document number and the immediate sender and receiver of the transaction.



Figure F.r: The LanguageCode structure identifies the primary language of a transaction.

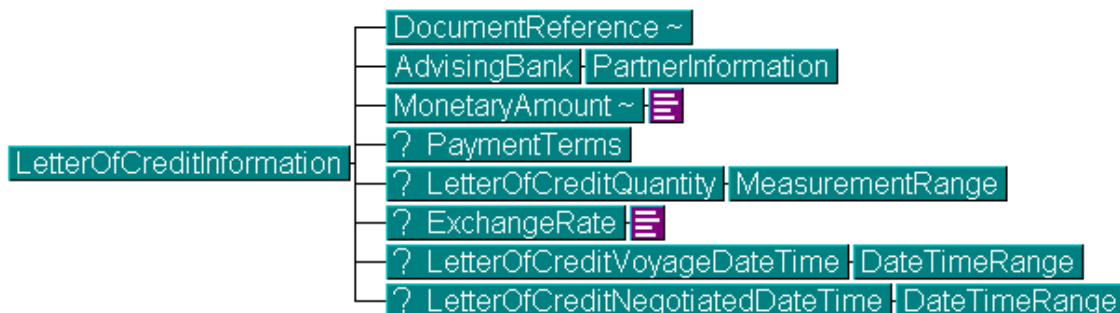


Figure F.s: The LetterOfCreditInformation structure consists of DocumentReference, AdvisingBank which identifies the bank that will be responsible for providing the Letter of Credit, the MonetaryAmount, PaymentTerms, LetterOfCreditQuantity, ExchangeRate, LetterOfCreditVoyageDateTime and LetterOfCreditNegotiatedDateTime the transaction should represent in order for the letter of credit to be valid.



Figure F.t: The LoadTenderNumber structure.

Appendix F – Common Data Elements, continued



Figure F.u: The MarketPlaceInformation structure identifies a MarketPlace, the buyer and the seller. This structure also includes a MarketPlaceDocumentReference which identifies additional MarketPlace references for a transaction.



Figure F.v: The Measurement structure identifies a measurement in within a transaction.



Figure F.w: The MeasurementRange structure identifies a measurement range within a transaction. This structure allows for a minimum and/or maximum measurement as well as an average measurement.



Figure F.x: The MonetaryAmount structure identifies an standard monetary amount.

Appendix F – Common Data Elements, continued

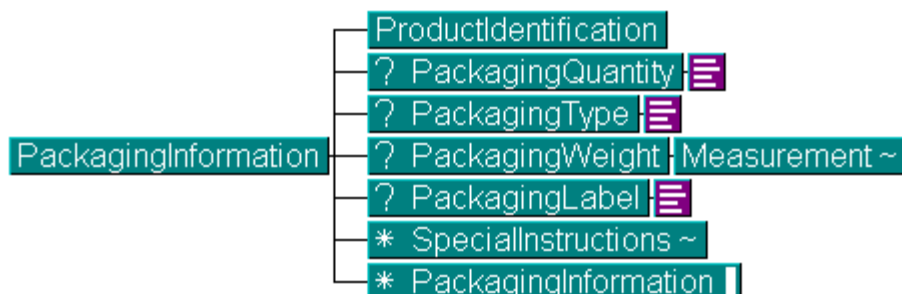


Figure F.y: The PackagingInformation structure provides information relating to the packaging, such as ProductIdentification, PackagingQuantity, PackagingType, PackagingWeight, PackagingLabel and SpecialInstruction. This structure can be repeated within itself for in depth detail on packaging for a product.

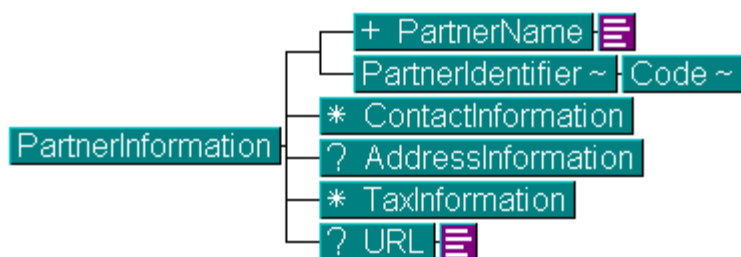


Figure F.z: The PartnerInformation structure identifies a partner involved or to be involved in a transaction. This consists of PartnerName, PartnerIdentifier, ContactInformaiton, AddressInformaiton, TaxInformaiton and URL.

Appendix F – Common Data Elements, continued

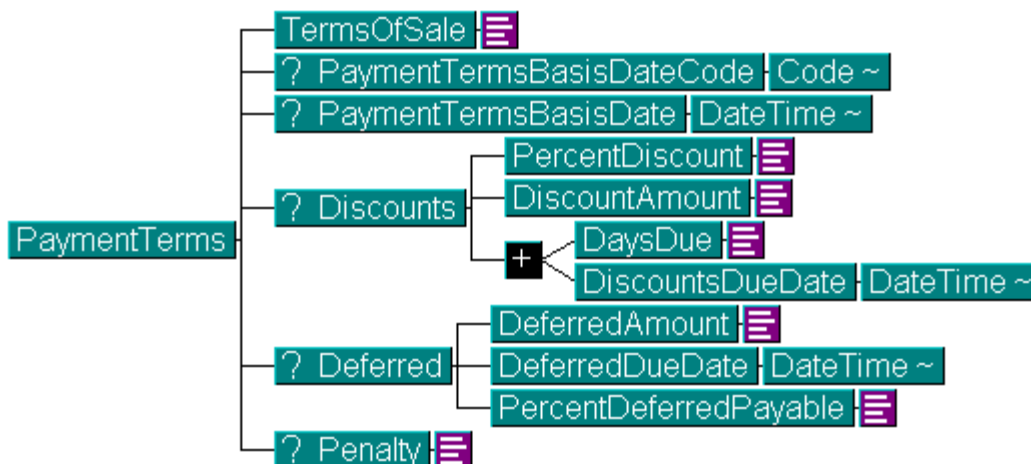


Figure F.aa: The PaymentTerms structure identifies the terms of payment for the invoicing. This includes discounts applied, deferred payments and the penalty applied for any unpaid balance.



Figure F.bb: The PriceInformation structure.



Figure F.cc: The Pricing structure identifies a standard monetary amount, the measurement on which the price is based (such as lbs, 500 liters, tons etc...) and a reason for the given price(such as discounted amount, whole sale amount etc...).

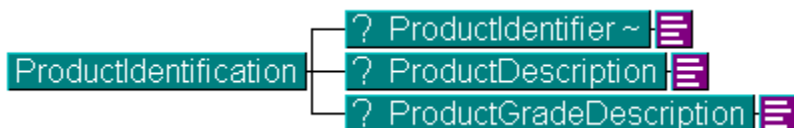


Figure F.dd: The ProductIdentification structure identifies a unique ID, provides a general description and classifies the 'grade' of the product.

Appendix F – Common Data Elements, continued

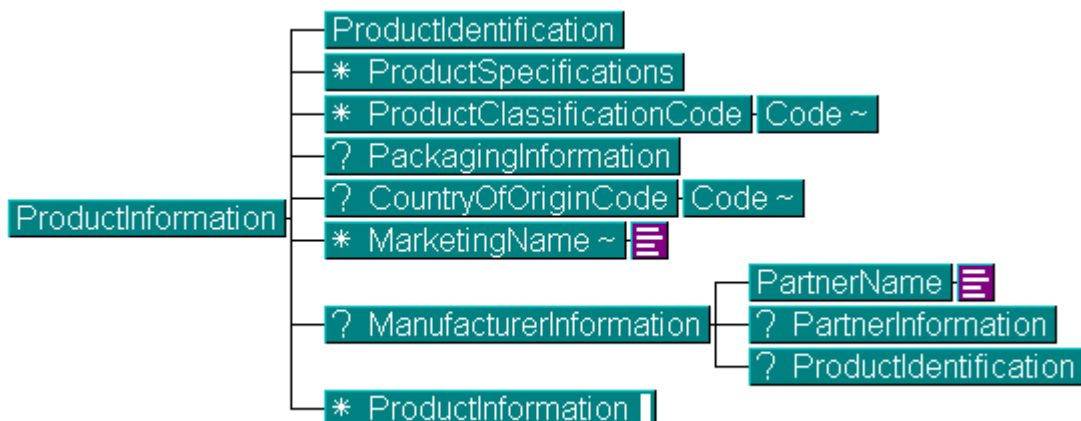


Figure F.ee: The ProductInformation structure provides a means to identify detailed product information, such as technical specification, classification codes, the name used to market the product, the originating country and information on the manufacturer. This structure can be repeated within itself allowing for multiple levels of products information to be captured and includes ProductIdentification and PackagingInformation.



Figure F.ff: The ProductSpecifications Structure.

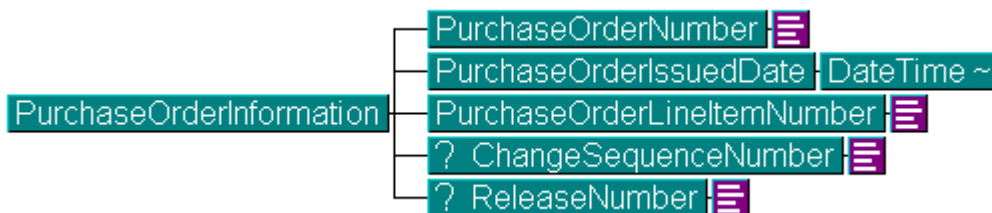


Figure F.gg: The PurchaseOrderInformation Structure.

Appendix F – Common Data Elements, continued

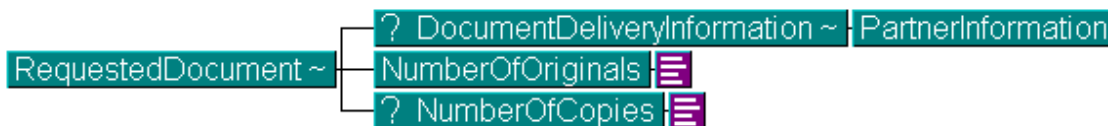


Figure F.hh: The RequestedDocument structure identifies additional documents being requested and the number of copies and originals necessary. This structure also includes PartnerInformation to identify contact and address information.



Figure F.ii: The ShippingInformation structure provides PartnerInformation or a LocationCode that identifies an official code assigned to a city or point within a city.



Figure F.jj: The ShipmentTerms structure identifies the terms under which a product is shipped and the location where the responsibility of the shipment transfers. For example; international orders this would represent the INCO terms and for domestic orders this might be Freight Prepaid, FOB or similar.



Figure F.kk: The SpecialInstructions structure identifies special instructions related to a specific section within a transaction or the whole transaction.

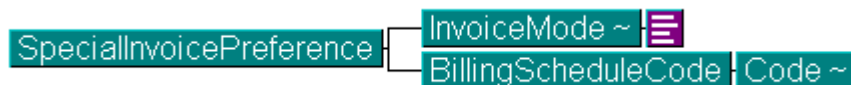


Figure F.ll: The SpecialInvoicePreference structure.

Appendix F – Common Data Elements, continued



Figure F.mm: The StatusInformation Structure.

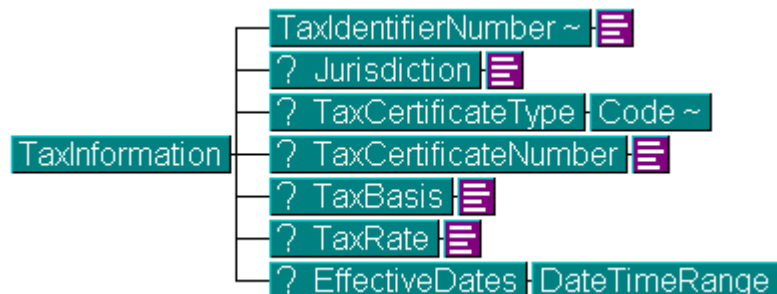


Figure F.nn: The TaxInformation structure identifies tax related information that is associated with a party involved in a transaction.

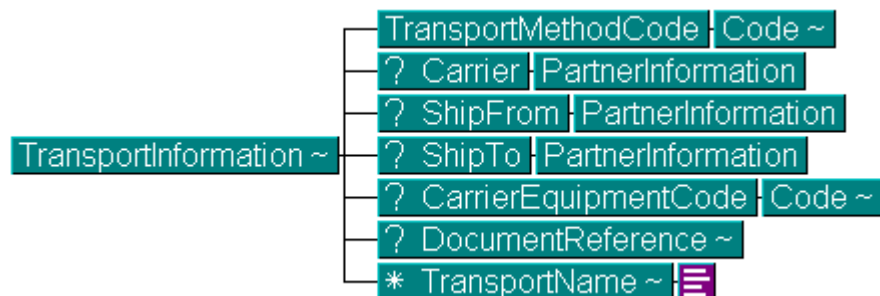


Figure F.oo: The TransportInformation structure.

Chem eStandards Compliance Criteria

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Appendix G – Chem eStandards Compliance Criteria

Chem eStandards is a specification for the execution of business-to-business transactions within the chemicals industry. Besides the introduction and the appendices, Chem eStandards provides details on the individual transactions needed for eBusiness.

There are three levels of detail for all transactions:

- A common specification of enveloping and security used in the delivery of data (payloads)
- A high-level specifications of the business transaction within which data is exchanged
- A detailed specification of the payload exchanged within a specific business transaction

This section outlines the requirements for compliance to Chem eStandards in these areas and provides guidance for non-compliance with Chem eStandards, where needed.

Enveloping and Security

Chem eStandards leverages the envelope, security, and transport aspects of the RosettaNet Implementation Framework (RNIF), version 1.1. This is documented on the RosettaNet website: <http://www.rosettanet.org>. The Chem eStandards relies on RNIF v1.1 as follows.

Envelope

The Chem eStandards envelope comes directly from RosettaNet RNIF v1.1. This structure holds various data including: a Chem eStandards object, and signature information. Within the Chem eStandards object are: a preamble, a service header, and finally the service content (payload) itself. Compliance to the Chem eStandards requires full support of this structure. All elements must be present and all fields must be populated as specified. Empty fields are not allowed. Codes must come from sources specified within “Envelope and Security” section of Chem eStandards.

The envelope, and in particular the service header information, is used for generic acknowledgements that assure the sender of message delivery. Where defined, functional responses are returned from a message recipient to the sender. The transaction definitions of Chem eStandards identify all messages and any corresponding functional responses. Functional responses must also generate generic acknowledgments their recipient (the sender of the original message) to be considered complete.

Security

The security goals of the Chem eStandards are:

- Authentication (digital certificates preferred)
- Encrypted communication
- Non-repudiation

The Chem eStandards endorses RosettaNet’s security standards. The RosettaNet security requirements are documented in RNIF 1.1, which should be consulted as the definitive source for Chem eStandards security.

The Envelope and Security section of Chem eStandards identifies the use of alternative technologies. In summary, compliance with Chem eStandards requires support for HTTP (HyperText Transfer Protocol) and HTTPS (Secure HTTP) as a minimum as defined in RNIF 1.1 and no security mechanisms used may violate explicit prohibitions in RNIF 1.1. Secure Sockets Layer (SSL) must be used where specified. Digital certificates based on X.509 v.3 must be used.

Marketplaces may choose to provide additional mechanisms for security as provided by other transports, but these are considered additions to, not replacements for, HTTP/HTTPS and digital certificates. The guidelines for these additional practices are described in “Accommodations.”

Transport

While RNIF 1.1 specifies only HTTP and HTTPS, Chem eStandards recognizes that Marketplaces and Business Partners may wish to use other mechanisms such as FTP, SMTP, and asynchronous message queuing over some form of VPN (Virtual Private Network). It is a minimum requirement that HTTP and HTTPS be provided for compliance with Chem eStandards. The guidelines for these additional practices are described in “Accommodations.”

Accommodations

While tactical accommodations may be made for non-RNIF 1.1 frameworks that use asynchronous message queuing, FTP, or SMTP, such accommodations must meet the following security requirements:

- Authentication between the Marketplace and Business Partners should at least be via user-id and password, and preferably should use digital certificates for authentication
- Communications between the Marketplace and Business Partners should be encrypted
- Document integrity should be assured
- Non-repudiation should be assured

At this time, RosettaNet is in development of RNIF v2.0. RNIF v2.0 has many changes supporting items identified in “Accommodations” above. At this time, RNIF 2.0 is not yet adopted and Chem eStandards does not reference or rely upon any proposals in the new RosettaNet specification.

Business Transactions

Chem eStandards is based on the identification and definition of business transactions to be used for electronic commerce within the chemicals industry. Business needs drove the identification of transactions and transactions drove the definition of messages and data.

Compliance to the Chem eStandards requires use the use of messages within the context of the business transactions defined. Messages may not be used for alternative purposes. Compliance does not require the implementation of all transactions defined within Chem eStandards, but where transactions are supported, the messages used within those transactions must comply with the definitions provided herein.

Payloads

The payloads are the contents of messages sent in the business processes specified within Chem eStandards. The remainder of these messages is the envelope, which is used in the delivery of the payload from the sender to the recipient. The payloads contain the data being sent and are defined by the Document Type Definitions (DTDs) and the data dictionary of Chem eStandards. Other sections of Chem eStandards also support payload definitions in various ways.

Compliance to Chem eStandards requires support for the payloads it defines. This can be divided into:

- Right payload
- Payload compliance

Right Payload

The payloads used within the messages of Chem eStandards must be those identified within the definitions of the business processes that they support. In other words, payloads must “match” businesses processes that use them and must be used for the purposes described. The parties participating in that business exchange must provide all messages identified by the business processes of Chem eStandards.

Payload Compliance

Chem eStandards contains numerous DTDs. These DTDs incorporate most of what can be expressed in XML documents. Compliance with Chem eStandards requires compliance of XML documents to the DTDs defined within it. All elements and attributes must be used as described within Chem eStandards. At this time, entities have not been used, but their use is a recommendation for future release of Chem eStandards.

Compliance with Chem eStandards requires use of Chem eStandards DTDs. Derivations of Chem eStandard DTDs is not allowed.

All payloads must be well formed XML, compliant (valid) to Chem eStandards DTDs. Compliance with Chem eStandards DTD requires:

- All required (1 or 1-n) elements must be present in message payloads. Only optional (0-1, or 0-n) elements may be omitted.
- The cardinality (1, 0-1, 0-n or 1-n) of elements must be honored as described.
- All DTD elements contain either data or other elements. All required attributes must be present in the elements where they are defined. Only optional attributes may be omitted.
- All element and attribute data must be consistent with the definitions of the data dictionary.
- Elements that contain data may not be left empty and empty elements are not allowed.
- Elements and attributes identified as containing data from code lists must have values from the source code lists specified.
- Element and attribute data must be of the type and format specified in the data dictionary.
- Elements and attributes identified as having a fixed size (for strings) must contain values within the constraints of the sizes specified
- Element and attribute data must be of the language specified as in use by the document that contains them.
- Attributes containing picklists may only be assigned values from those picklists defined. Picklists may not be added to.
- All element and attribute data should be trimmed of leading and trailing spaces.
- “Dummy” or “placeholder” data should not be used simply in order to fill elements and attributes. All elements and attributes that are optional have been identified as such and all required elements and attributes should have “real” data.

The DTDs of Chem eStandards have not been constructed to enforce all the business rules of the transactions they support. A DTD is a data structure and where possible data requirements have been incorporated, however in order to generalize the DTDs (thus limiting their number) some elements are optional that may be necessary in particular business scenarios. The DTDs do not enforce all the rules that may be needed within the business

processes that use them and the applications that generate XML documents following Chem eStandards DTDs are expected to provide the additional control needed to ensure that all the data that is appropriate and necessary for any particular transaction is present.

For example, the Address Information data structure allows for the specification of either a post office box number or several lines of address information. It is up to the applications generating the XML that supports Chem eStandards to not use post office box information in a customer ship-to context. It is impossible to fully describe the “sensible” use of data elements within a DTD and implementers are expected to do what is appropriate and expected by their partners. All efforts have been made to ensure that Chem eStandards DTDs have not been over-generalized.

Non-compliance

It is expected that there will be occasions where an implementation may need to vary from Chem eStandards specification. Usage is certain to point out oversights and errors in its design and the scope of what Chem eStandards covers is certain to grow. These variances are considered to be non-compliances.

It is important that this standard not be a hindrance to the business needs of implementations. When variances are needed, they should be implemented and the organization creating them should submit them to the maintainers of Chem eStandards for integration into it. Minor non-compliances are expected until Chem eStandards has been implemented broadly enough to identify un-implemented business requirements.

When Chem eStandards must be extended with additional transactions and messages, the DTDs and data dictionary entries for the payloads of those messages must follow the philosophy and design guidelines outlined elsewhere in Chem eStandards for their design and use.

Contact the references identified in this document as necessary for clarification and support.

Transaction Security Requirements

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Appendix H – Transaction Security Requirements

Section	Transaction	Authentication	Digital Signature	Non-repudiation
Customer	Qualification Request	Yes	Yes	No
Customer	Qualification Response	Yes	Yes	Yes
Catalog and RFQ	Customer Specific Catalog Update	Yes	Yes	Yes
Catalog and RFQ	Product Catalog Update	Yes	Yes	Yes
Catalog and RFQ	Request for Quote	Yes	Yes	No
Purchase Order	Order Cancel	Yes	Yes	Yes
Purchase Order	Order Cancel Response	Yes	Yes	Yes
Purchase Order	Order Change	Yes	Yes	Yes
Purchase Order	Order Create	Yes	Yes	Yes
Purchase Order	Order Response	Yes	Yes	Yes
Purchase Order	Order Status Request	Yes	Yes	No
Purchase Order	Order Status Response	Yes	Yes	No
Logistics	Carrier Weights	Yes	Yes	Yes
Logistics	Freight Bill	Yes	Yes	Yes
Logistics	Load Tender Motor	Yes	Yes	Yes
Logistics	Load Tender Ocean	Yes	Yes	Yes
Logistics	Load Tender Rail	Yes	Yes	Yes
Logistics	Load Tender Response	Yes	Yes	Yes
Logistics	Shipment Status	Yes	Yes	No
Logistics	Ship Notice	Yes	Yes	Yes
Financials	Invoice	Yes	Yes	Yes
Financials	Payment	Yes	Yes	Yes
Financials	Payment Detail	Yes	Yes	Yes
Financials	Payment Response	Yes	Yes	Yes
Forecasting	Delivery Receipt	Yes	Yes	Yes
Forecasting	Delivery Receipt Response	Yes	Yes	Yes
Forecasting	Demand Forecast	Yes	Yes	Yes
Forecasting	Demand Forecast Response	Yes	Yes	Yes
Forecasting	Demand Plan	Yes	Yes	Yes

Appendix H – Transaction Security Requirements, continued

Section	Transaction	Authentication	Digital Signature	Non-repudiation
Forecasting	Demand Plan Response	Yes	Yes	Yes
Forecasting	Inventory Actual Usage	Yes	Yes	Yes
Forecasting	Inventory Actual Usage Response	Yes	Yes	Yes
Forecasting	Replenishment Proposal Cancel	Yes	Yes	Yes
Forecasting	Replenishment Proposal Change	Yes	Yes	Yes
Forecasting	Replenishment Proposal Request	Yes	Yes	Yes
Forecasting	Replenishment Proposal Response	Yes	Yes	Yes
Forecasting	Supply Plan	Yes	Yes	Yes
Forecasting	Supply Plan Response	Yes	Yes	Yes
Exchange Interactions	Posting Accept	Yes	Yes	Yes
Exchange Interactions	Posting Accept Response	Yes	Yes	Yes
Exchange Interactions	Posting Cancel	Yes	Yes	Yes
Exchange Interactions	Posting Cancel Response	Yes	Yes	Yes
Exchange Interactions	Posting Change	Yes	Yes	Yes
Exchange Interactions	Posting Create	Yes	Yes	Yes
Exchange Interactions	Posting Response	Yes	Yes	Yes
Exchange Interactions	Posting Status Request	Yes	Yes	No
Exchange Interactions	Posting Status Response	Yes	Yes	Yes

I Additions to RosettaNet Codes for ChemXML Envelope

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Appendix I - Additions to RosettaNet Codes for ChemXML Envelope

RosettaNet has incorporated the following data elements in tags for the Preamble and Service Header envelope sections (see Section 2 for an explanation of the envelope; see RosettaNet RNIF 1.1. for DTD's, dictionary, RosettaNet code list, and additional examples). For some of these codes, we have defined additional elements required for ChemXML. Unless we enter a more involved relationship with RosettaNet, we will maintain the additional codes in Chem eStandards documentation (e.g. this appendix), but refer to RosettaNet codes in their original documentation. Until determined otherwise, elements in transaction payloads are using RosettaNet codes.

Table 1: Data Elements

Data Element Tag	Description	New Value	Comments
GlobalAdministeringAuthorityCode	Organization charged with Maintenance of Standard	CIDX	For ChemXML use "CIDX" in place of "RosettaNet". This distinguishes documents for organizations that may do business with multiple industries and standards.
GlobalProcessCode	Name of Process	Use Transaction Name from Table 2	Note: for ChemXML, each transaction stands alone, so we will use transaction names where RosettaNet used Processes and Actions. However, we will retain redundant entries for consistency with RosettaNet Envelope
GlobalProcessIndicatorCode	Numeric Code for Process	Use Transaction Code from Table 2	We are numbering our transactions separately from RosettaNet for clarity
GlobalBusinessServiceCode	Service being undertaken	None	Continue to use RosettaNet codes
GlobalPartnerRoleClassificationCode	Role in this transaction	None	Continue to use RosettaNet codes
GlobalTransactionCode	Transaction Name	Use Transaction Name from Table 2	See Note under GlobalProcessCode
GlobalBusinessActionCode	Action within Process	Use Transaction Name from Table 2	See Note under GlobalProcessCode
GlobalPartnerClassificationCode	Type of Business Partner	Marketplace	Add "Marketplace" to the RosettaNet code list

Table 2: Transaction-specific values

Section	Transaction Name	Transaction Code
Customer	Qualification Request	E11
Customer	Qualification Response	E12
Catalog and RFQ	Customer Specific Catalog Update	E73
Catalog and RFQ	Product Catalog Update	E72
Catalog and RFQ	Request for Quote	E71
Purchase Order	Order Cancel	E46
Purchase Order	Order Cancel Response	E47
Purchase Order	Order Change	E45
Purchase Order	Order Create	E41
Purchase Order	Order Response	E42
Purchase Order	Order Status Request	E44
Purchase Order	Order Status Response	E43
Logistics	Carrier Weights	E61
Logistics	Freight Bill	E62
Logistics	Load Tender Motor	E6
Logistics	Load Tender Ocean	E64
Logistics	Load Tender Rail	E65
Logistics	Load Tender Response	E66
Logistics	Shipment Status	E71
Logistics	Ship Notice	E72
Financials	Invoice	E81
Financials	Payment	E82
Financials	Payment Detail	E83
Financials	Payment Response	E84
Forecasting	Delivery Receipt	F11
Forecasting	Delivery Receipt Response	F12
Forecasting	Demand Forecast	F13
Forecasting	Demand Forecast Response	F14
Forecasting	Demand Plan	F15
Forecasting	Demand Plan Response	F16
Forecasting	Inventory Actual Usage	F17
Forecasting	Inventory Actual Usage Response	F18
Forecasting	Replenishment Proposal Cancel	F19
Forecasting	Replenishment Proposal Change	F20
Forecasting	Replenishment Proposal Request	F21
Forecasting	Replenishment Proposal Response	F22
Forecasting	Supply Plan	F23
Forecasting	Supply Plan Response	F24

Section	Transaction Name	Transaction Code
Exchange Interactions	Posting Accept	F41
Exchange Interactions	Posting Accept Response	F42
Exchange Interactions	Posting Cancel	F43
Exchange Interactions	Posting Cancel Response	F44
Exchange Interactions	Posting Change	F45
Exchange Interactions	Posting Create	F46
Exchange Interactions	Posting Response	F47
Exchange Interactions	Posting Status Request	F48
Exchange Interactions	Posting Status Response	F49

Glossary of Terms

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Appendix J – Glossary of Terms

A

Action (or Action Flag)	A field in a catalog transaction indicating whether a catalog record is to be added, updated, or deleted.
Attribute	A physical property of a material product, such as boiling point or viscosity.

B

Business to Business (B2B) Model	A market model in which transactions flow directly between Buyers and Sellers, without an intermediary such as a Marketplace.
Business Partner	A Seller, Buyer, Marketplace, Carrier, or Manufacturer
Business Process Diagram	A flow diagram depicting work processes and data flows between Business Partners.
Business Transaction	A transfer of information from one Business Partner to another
Buyer	A Business Partner seeking to purchase a product from a Seller

C

Carrier	Business Partner that delivers products between a Seller and a Buyer.
Catalog	A searchable data store of product and/or pricing information intended to facilitate eCommerce transactions. Also, see Product Catalog and Customer Specific Catalog
Catalog Item (see also "SKU;Stock Keeping Unit")	A SKU in a catalog
Conditions of Sale	The non-financial arrangements of a sale. For example, delivery-between dates
Country	A geographical schema designed to structure inhabitants' spatial coordinates along historical lines
Customer (see also Buyer)	
Customer Contract Number (see also Buyer Contract Number)	An identifier for a contract between a Buyer and a Seller, in the Buyer's system
Customer Identification Number	An identifier which uniquely identifies a Buyer

Appendix E – Glossary of Terms (continued)**C (continued)**

Customer Location Code	A code which uniquely defines the geographic attributes of a customer
Customer Specific Catalog	A companion catalog to the Product Catalog, which can optionally contain Buyer-specific pricing and conditions of sale for products in the Product Catalog.

D

D-U-N-S Number	The Dun and Bradstreet identifier for a Business Partner at a location level
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E

ERP	Enterprise Resource Planning
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L

List Price	Standard MSRP which may be contained in the Product Catalog, available for viewing by all registered Marketplace participants
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M

Manufacturer Identification Number	An identifier which uniquely identifies a Manufacturer
Manufacturer Product Code	A unique identifier for a product in the Manufacturer's system (also, see SKU)
Marketplace	An on-line facility for trading chemical products
Marketplace Model	The business model whereby there is a Marketplace serving as an intermediary between Buyers and Sellers
Message	The data contained in a transaction

P

Parametric Data	A hash list of Physical Properties that reside in a catalog record. Used primarily to enable parametric searches through a catalog.
Parametric Search	A type of search in which one narrows down a field of choices by entering parameters to be matched.

Appendix E – Glossary of Terms (continued)**P (continued)**

Participants	The users of a Marketplace: Sellers who sells through the Marketplace and Registered Buyers.
Physical Property (see also Attribute, Parametric Data)	Describes a material product. Tensile strength and boiling point are examples of Physical Properties. Also known as Attributes. These are entered as Parametric Data, which can be searched upon.
Populate	To fill a catalog database with data
Product	A material offered for sale.
Product Catalog	A catalog which contains descriptions, attributes, and other information for products offered by Sellers
Public Key Cryptography Standard (PKCS)	A cryptographic standard in which a non-secret, publicly-available cryptographic key can be used to encrypt a message which can only be deciphered by the holder of the matching secret, or “private” key.

Q

Qualified Buyer	A Buyer which has received approval from a Seller to do business with that Seller over a Marketplace
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R

Registration	The process by which a Buyer becomes eligible to participate in a Marketplace
Request for Product Information (RFPI)	An open-ended request initiated by a Buyer seeking to find a new product to match a specified need.
Request for Quote (RFQ)	A transaction used to request price or conditions of sale different from a standard offer.
Resident	“Physically exists.” A catalog physically exists where it is “resident.”

Appendix E – Glossary of Terms (continued)**S**

Stock Keeping Unit (SKU)	A code that identifies a unique product/package configuration that is available for sale. SKUs are unique to a given Seller.
Supplier (see also Seller)	A Business Partner which provides a product for sale
Supplier Contract Number	An identifier for a contract between a Buyer and a Seller, in the Seller's system
Supplier Identification Number	An identifier which uniquely identifies a customer
Supplier Product Code (Buyer Part Number)	A unique identifier for a product in the Seller's system (also, see Stock Keeping Unit (SKU))

T

Technical Data Sheet (TDS)	A document containing information regarding the technical specifications of a chemical product
Transaction	An exchange of information between Business Partners which takes place during a business process

X

XML	eXtensible Markup Language
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