Artifact Standard Identification Scheme
for Metadata 1.0

Approved TAB Document 30 January 2006

Artifact Identifier:
ArtifactStandardIdentificationSchemeForMetadata-1.0.1-req-approved

Location:
Note that the URIs in this section and specified in this document are not active.
Current: http://docs.oasis-open.org/oasis/ArtifactIdentificationSchemeForMetadata/latest
This Version: http://docs.oasis-open.org/oasis/ArtifactIdentificationSchemeForMetadata/v1.0
Previous Version: http://www.oasis-open.org/spectools/docs/chairs-filenaming-02.html

Artifact Type:
requirements

Technical Committee:
OASIS Technical Advisory Board

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Related work:
This specification replaces or supercedes:
• Proposed Rules for OASIS Document File Naming Working Draft 02
This specification is related to:
• OASIS Template Guidelines http://docs.oasis-open.org/templates/index.html

Abstract:
This document contains requirements for the minimal set of metadata for OASIS artifacts, the
scheme for naming artifacts, namespace and naming schemes, and the definition of persistent
URIs for OASIS artifacts.

Status:
This is an approved TAB Document.

While this document is written as a set of requirements, the use of this document is
recommended and not mandated. After the second General Membership review in
February 2006, we expect that the OASIS Technical Advisory Board will approve a future
version as a contribution to ongoing OASIS policy discussions.

For information on whether any patents have been disclosed that may be essential to
implementing this specification, and any offers of patent licensing terms, please refer to the

The non-normative errata page for this specification is located at www.oasis-open.org/committees/tab.
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1 Introduction (Non-Normative)

While this document is written as a set of requirements, the use of this document is recommended and not mandated. After the second General Membership review in February 2006, we expect that the OASIS Technical Advisory Board will approve a future version as a contribution to ongoing OASIS policy discussions.

OASIS recognizes the need to establish a set of Requirements for defining and consistently using a minimum required set of metadata for OASIS artifacts, and for naming artifacts such as requirements documents, prose specifications, schema definitions, attribute identifiers, profile identifiers, and others that are produced by OASIS technical committees (TCs). This document describes the scheme and its applicability.

Metadata is embedded in artifacts where practicable; a document management system should allow metadata-based searches and indexing in the future.

Certain OASIS artifact metadata is optionally included in artifact names. This allows unambiguous and consistent naming across all OASIS activities for visible versions of artifacts. This visibility of metadata in the name is intentional and permits the use of a variety of technologies for accessing and working with the contents of OASIS archives. TC-defined unambiguous and descriptive names are also permitted, if approved by the OASIS TC Administrator.

This document is intended to specify practices that are, insofar as possible, upwardly compatible with the Proposed Rules for OASIS Document File Naming Working Draft 02, Edited by Eve Maler [Proposed Naming].

Working Drafts of this scheme were sent to the OASIS Chairs mailing list and to OASIS Staff for comment and discussion, and subsequently for review to the OASIS-member-discuss mailing list. This document incorporates and addresses comments from the Chairs list members, the OASIS TAB, OASIS Staff, OASIS membership, and other sources. We acknowledge and thank all of the reviewers for their comments and suggestions.

Since artifact metadata is generally available in multiple ways, it is not necessary to include all required metadata in the artifact name (which is also usually the final component of the URI for the artifact); we have tried to keep a balance between unambiguous names and names with too much metadata in them.

In the future this scheme will be extended to use Internationalized Resource Identifiers [RFC 3987]; the present document does not.

These Guidelines are coordinated with the OASIS IPR Policy [OASIS IPR] and the OASIS TC Process [OASIS TCP]. The terms “Contribution” and “Feedback” referring to artifacts in those references are not addressed in these Guidelines.

Per Section 2, these guidelines will be effective as and when announced by the OASIS TC Administrator. The TC Administrator will issue policy statements based on this scheme.

1.1 Terminology

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC 2119].

This specification uses the following typographical conventions in text: variable name, literal string. Terms in italic boldface are intended to have the meaning defined in Section 3 or in other normative OASIS documents, such as the TC Process [OASIS TCP] and IPR Policy [OASIS IPR]. We identify the value domain for components with Italic text with initial (and perhaps internal) capitalization, and the value within the respective domains with lower case bolditalic text.
1.2 Normative References


1.3 Non-Normative References


2 Applicability (Normative)

TCs MUST apply these Requirements to produce URIs consistent with [RFC 3986], official stored filenames and any URNs consistent with [RFC 2141] for any Committee Drafts, Committee Specifications, Public Review Drafts, OASIS Standards, any unapproved working drafts of the foregoing, all XML files intended for direct machine processing, and other stored artifacts such as white papers, requirements, and the like.

TCs MUST apply these Requirements to include the required metadata inside artifacts where appropriate.

TCs MUST follow these Requirements for the naming of artifacts.

These Requirements are effective as announced by the OASIS TC Administrator by email to the OASIS membership.

TCs are NOT REQUIRED to apply these Requirements retroactively. However, the OASIS TC Administrator may assign compliant names to artifacts without such names, and where possible without breaking existing references (such as existing persistent hyperlinks), the TC Administrator may elect to use the compliant names as the exclusive official reference to artifacts where a compliant name is available.
3 Definitions (Normative)

Phrases defined in the OASIS TC Process [OASIS TCP] and/or the OASIS IPR Policy [OASIS IPR] and not otherwise defined in these Requirements are used herein as defined therein.

3.1 General Definitions (Normative)

Artifact
An individual work product of a Technical Committee, usually a document (including but not limited to prose specifications, requirements, guidelines, etc) or machine-readable files (such as an XML schema, DTD, etc). TC Charters are NOT included. TC Minutes, comment logs and similar indirect work product MAY be included.

Artifact Identifier
A string used to uniquely identify a particular artifact. These Requirements describe how to construct and (indirectly) how to parse artifact identifiers. An Artifact Identifier is also a name for an Artifact.

Artifact Name
The name of an Artifact determined by the Technical Committee in consultation with the TC Administrator.

Filename
The string name in the final path position (rightmost) used to identify a file system object.

Name Component
A character string that contains a specific metadata value. Used to build a structured name.

Persistent http URIs
An http scheme URI references a particular OASIS artifact or set of artifacts that will resolve to a particular object; the object referenced will remain immutable over time (except for the latest subtree in section 7.5), and the URI will consistently reference the same artifact or set of artifacts over time. A URI (URL or URN) is not an Artifact for purposes of this metadata and naming scheme.

Required Metadata
The set of metadata values required by this document.

Structured Name
An artifact identifier built from name components separated by the hyphen character.

3.2 Metadata Definitions (Normative)

Artifact Type
The type of the Artifact. The following abbreviations SHALL be used:

- Catalog – “catalog” (This refers to SGML/XML catalogs used for entity resolution)
- Conformance criteria – “conform”
- Conformance tests – “conftest”
- Errata – “errata”
- Guidelines – “guidelines”
– Interoperability-related – “interop"
– Profile – “profile"
– Requirements – “req"
– Schema – “schema"
– Prose Specification – “spec"
– Test Assertions – “testassertions"
– White paper – “wp"
– Web Services Description/Definition Language artifacts – “wsdl"

Note that this list is not exhaustive. Oftentimes, committees will have to define their own special-purpose Artifacts. It is recommended that artifact type identifiers be either well-accepted abbreviations (e.g. “spec”) or the full spelling. The TC Administrator MUST approve Artifact Type identifiers not specified in these Requirements.

Copyright
The copyright holder(s).

Date
The date of the artifact, in the format YYYYMMDD.

Editor
The name or names of the editor(s) of the artifact.

Form
A particular representation of an artifact. The same revision of an artifact might have several forms, particularly in the case where Artifact Type is “spec”. Typically this is the extension given to a filename that indicates a particular application or class of application.

For example, when submitting a Public Review package, the specification(s) must be provided in both Adobe Acrobat (pdf) and HTML forms as required by [OASIS TCP].

Language
A two-letter abbreviation for language of the specification, conforming to [ISO 639]. In the case of OASIS Standards, per the OASIS Translation Policy, translations from the original language are not normative and are so marked. If not present, the value of this component defaults to “en” (English).

OASIS Defined Name
A name defined using components separated by hyphens as specified in Section 5.

Product
The TC Administrator-approved proper name (or the official, TC Administrator-approved abbreviation) of a significant body of work undertaken by a TC. Some current OASIS Products are “saml”, “wsrp”, and “wss”.

ProductVersion
An Artifact development stage that is formally designated by the letter “v” followed by a number (in major.minor format, such as 1.0 or 2.3 or 2.0.1, using the period character as a separator) for purposes of distinguishing successive drafts, particularly approved drafts of specifications, as well as levels of implementation and conformance by a public community of developers. An OASIS Standard is associated with a single ProductVersion throughout its development and approval. The Technical Committee producing the Product and its Artifacts, after consultation with the TC Administrator, assigns version numbers.

Revision
The development stage of an artifact (except an OASIS Standard) designated by a two-digit number to distinguish various drafts under TC development. Revisions SHALL be numbered
Stage

A specification maturity level recognized by the OASIS TC process [OASIS TCP].

The following abbreviations SHALL be used:

– Working Draft – wd
– Committee Draft – cd
– Public Review Draft – pr
– Committee Specification – cs
– OASIS Standard – os

TC defined Name

A descriptive name defined by the TC for the artifact. For example, where an OASIS standard might be referred to as “WSRP 1.0” or “SAML 2.0”, the components of the ratified standard may include a number of schemas or artifacts of other types. Considering SAML 2.0, some 41 files are part of the OASIS Standard archive file. The descriptive name of the specification (assuming no parts) can be omitted; the distinctions between the 33 schemas need a TCdefinedName to reasonably distinguish them.

The rest of the naming scheme effectively defines a container for a single artifact; once a container (say saml-2.0-AuthnContext-schema-os is defined, we must distinguish between (e.g.)

mobileonefactor-unreg.xsd
mobiletwofactor-reg.xsd
pgp.xsd and
timesync.xsd

A TCdefinedName must be in the appropriate character set; requirements are in Section 5.2 Character Sets for Artifact Identifiers. In the absence of an OASISdefinedName for certain artifacts only a TCdefinedName is used.

TC Short Name

The short name assigned by the TC Administrator to the Technical Committee, with any hyphens eliminated. This is typically done at TC initiation.
4 Required Metadata for Artifacts (Normative)

The Required Metadata that must be associated with an OASIS artifact is specified in this section. Detailed guidelines on the content and format are in the following sections. A summary table is in Appendix C.

Selected required metadata is used to construct the ArtifactIdentifier and optionally the filename, in addition to use as path components for URI and file naming.

Each artifact MUST have the following metadata defined by the Technical Committee, subject to approval by the TC Administrator.

The metadata listed SHALL be included in the artifact when practicable.

Selected metadata SHALL be included in the name of the artifact pursuant to the related separate documents.

The Technical Committee MAY define additional metadata for its artifacts, provided those metadata names and values are approved by the TC Administrator.

The following metadata MUST be associated with each Artifact:

<table>
<thead>
<tr>
<th>Metadata</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artifact Identifier</td>
</tr>
<tr>
<td>OASIS Defined Name</td>
</tr>
<tr>
<td>TC Short Name</td>
</tr>
<tr>
<td>Product</td>
</tr>
<tr>
<td>Product Version</td>
</tr>
<tr>
<td>Artifact Type</td>
</tr>
<tr>
<td>Stage</td>
</tr>
<tr>
<td>Revision</td>
</tr>
<tr>
<td>Language</td>
</tr>
<tr>
<td>Date</td>
</tr>
<tr>
<td>Editor</td>
</tr>
<tr>
<td>Copyright</td>
</tr>
</tbody>
</table>

The OASIS Document Templates for text specifications SHALL be updated to include the metadata in consistent tabular form for all prose specifications.

Each artifact MUST have an associated string value for the ArtifactIdentifier as described in these guidelines and as approved by the TC Administrator:

```
artifactIdentifier: [OASISdefinedName | TCdefinedName]
```

Each artifact MUST have an associated string value for the OASISdefinedName for the artifact. In some cases this will be the same as the ArtifactIdentifier:

```
oasisDefinedName:[OASISdefinedName]
```

Each artifact MUST have an associated string value for the Technical Committee Short Name as assigned by the TC Administrator:

```
tc:[tcShortName]
```
Each artifact MUST have an associated string value for **Product** as approved by the **TC Administrator**

| product: [product] |

Each artifact MUST have an associated string value for **ProductVersion**

| productVersion: [00[.00]] |

Each artifact MUST have an associated string value for **ArtifactType**

| artifactType: [catalog | conform | errata | guidelines | profile | req | schema | spec | ... ] |

Each specification, DTD, schema, or fragment artifact MUST have an associated string value for the **Stage** of the artifact.

| stage: [os | cs | pr | cd | wd] |

Each artifact MUST have an associated string value for the **Revision** of the artifact.

| revision: [r00] |
| revision: [r00]diff[00] |

Each artifact MUST have an associated string value for the **Language** of the artifact.

| Language: [en | fr | ... ] |

Each artifact MUST have an associated string value for the **Date** of the artifact.

| date: [000000000] (* format YYYYMMDD *) |

Each artifact MUST have an associated string value for the **Editor** or editors of the artifact.

| editor: [name(s) of editor(s)] |

Each artifact MUST have an associated string value for the **Form** of the artifact.

| form: [pdf | html | xhtml | ... ] |

Each artifact MUST have an associated string value for the name of the copyright holder.

| copyright: [name(s) of copyright holder(s)] |
5 Artifact Identifiers (Normative)

OASIS artifacts MUST be assigned a set of metadata that uniquely and unambiguously identifies such object as defined in Section 4. In this section we define how to build identifiers for all OASIS artifacts within the scope of these Requirements.

5.1 Common conventions

This section contains guidelines that are common to Artifact Identifiers for Artifacts of all types.

Although this section may permit certain Required Metadata to be omitted from the ArtifactIdentifier for particular Artifact Types, the Required Metadata MUST be associated with the artifact and as far as practicable MUST be present inside the artifact.

Artifact Identifiers MUST be case-sensitive.

Technical Committees MAY use mixed case (upper and lower) spelling for Artifact Identifiers, bearing in mind that the TC Administrator establishes the range of accepted values for many components.

TCs SHALL NOT create two or more Artifact Identifiers that differ only with respect to case.

Access to OASIS artifacts on OASIS web sites SHOULD expect the OASIS servers to respond to requests for resources (URIs) at the official third-level domain ONLY in a case-sensitive manner.

The revision component SHALL be omitted from identifiers and from the Required Metadata for OASIS Standards (where stage is "os").

Hyphens MUST be used to separate the name components.

Where no requirement is imposed by these Requirements, it is RECOMMENDED to use mixed case to render components more readable.

5.2 Character Set for Artifact Identifiers


Underscore MUST appear only as an interior character, neither beginning nor ending either an Artifact Identifier or any of its components.

Components of the Artifact Identifier MUST NOT use hyphen. Hyphen MUST be used to separate components except for separating Form, where period MUST be used.

The Artifact Identifier may be expressed in other encodings, e.g., UTF-16, using corresponding case characters and special characters as appropriate.

The TC Administrator MUST approve any alternative representations.

In a future revision this requirement may be modified in light of the growing interest in IRIs as defined in [RFC 3987].

5.3 Constructing Specific Artifact Identifiers

An ArtifactIdentifier MUST be either an OASISdefinedName or a TCdefinedName.

TCs SHOULD use an OASISdefinedName as defined in this section subject to approval by the TC Administrator.

TCs MAY use a TCdefinedNames (which need not follow the rules for OASISdefinedNames) subject to approval by the TC Administrator.

TCdefinedNames MUST conform to the character set requirements in Section 5.2.

The following format SHALL be used for OASISdefinedNames. This format includes selected metadata in a consistent format; variations for specific purposes are described below:
The literal hyphens in the **OASISdefinedName** are separators for the components. If a component is optional there SHALL NOT be multiple adjoining hyphens. Note the literal period before **form**, and that literal periods MAY be contained in **ProductVersion**.

The **tcShortName** is not included, as it can be determined uniquely from the **product**.

A value for **Product** MUST be included.

A value for **ProductVersion** MUST be included.

A value for **ArtifactType** MUST be included.

A value for **Stage** and the following hyphen separator MUST be included except in the following cases:

- when **ArtifactType** is **schema**
- when **ArtifactType** is **wsdl**

in which case a value for **Stage** MAY be omitted.

A value for **Revision** MUST be included if there is more than one non-identical artifact of the same referenced **ProductVersion** of a **Product**. Otherwise a revision MAY be included or omitted. **Revisions** of a single **ProductVersion** must be unique. If **ArtifactType** is **schema** then a value for **Revision** MAY be omitted in a parallel name, similar to those defined in Section 7.4 (Latest Version Subtree) below.

A value for **Language** MAY be included or omitted.

A value for **Form** SHALL be included for files and final URI components that resolve to a specific artifact, and SHOULD NOT otherwise be present. Namespace URIs and URNs are discussed elsewhere.

A value for **TCdefinedName** MUST be included if the **OASISdefinedName** is not used.

A draft non-normative context-free grammar for **ArtifactIdentifiers** is in Appendix B. A summary table is in Appendix C.
6 Filenames (Normative)

Filenames refer to the final path name component given to an artifact, which is the rightmost component in a file path.

6.1 Character Set for Filenames


Components of the Filename MUST NOT use hyphen. Hyphen MUST be used to separate components except for separating Form, where period MUST be used.

The Filename MAY be additionally expressed in other encodings, e.g., UTF-16, using corresponding case characters as appropriate.

The TC Administrator MUST approve any alternative representations.

In a future revision this requirement may be modified in light of the growing interest in IRIs as defined in [RFC 3987].

6.2 Specification and other Prose Document Filenames

For each artifact that is a specification (or other prose document) associated with a single product, the OASISdefinedName MUST contain the name components in the stated order, except that language MAY be omitted:

- product
- productVersion
- artifactType
- stage
- revision
- language, and
- form

The name components MUST be separated by hyphens, except form, which is separated from the preceding component with a period.

Note that the ArtifactIdentifier MAY be a TCdefinedName drawn from the same character set.

The filename MUST be the ArtifactIdentifier followed by the optional literal period and form.

6.3 Other Artifact Filenames

The filename MUST bear a reasonable and descriptive relationship to the document title.

OASISdefinedNames SHOULD be used for filenames for other artifacts.

The Technical Committee that owns such an artifact determines the filename, subject to approval of the TC Administrator.

If in the TC Administrator’s sole determination the filename is ambiguous or confusing, the TC Administrator MAY require that the TC propose a different filename.

For other artifacts, the TC has a great deal of flexibility in assigning names, but MAY optionally include some of the name components for OASISdefinedNames. See Appendix C.
6.4 Additional Requirements for Specific Filenames

6.4.1 Default Web Pages for Product URIs

The relevant required metadata for an artifact MUST be maintained at the default index page for the http scheme URI for each product and productVersion to facilitate search and retrieval.

For each such index page, an XHTML-compliant meta element MUST be included.

At least the product and productVersion and stage name components MUST be included.

```xml
<meta name="tcShortName" content="[tcShortName]"/>
```

For example

```xml
<meta name="tcShortName" content="wsrp"/>
```

6.4.2 XHTML, HTML, SGML, and XML Filetypes

For XHTML and HTML artifacts, a meta element is part of the vocabulary to which element attribute name-value pairs for the Required Metadata are attached. There are minor differences in syntax between HTML4, XHTML 1, and later versions of XHTML.

For each artifact consisting of structured markup, Required Metadata MUST be included in an XHTML-compliant or HTML-compliant meta element where one is defined in the standard vocabulary.

```xml
<meta name="tcShortName" content="[tcShortName]"/>
```

For example

```xml
<meta name="tcShortName" content="wsrp"/>
```

For each artifact containing structured markup where a standard XHTML-compliant meta element is not part of its standard vocabulary, Required Metadata MUST be placed as a comment within the content of the file where possible:

```xml
<!-- meta tcShortName="[tcShortName]" product="[product]" version="[version]"
ArtifactIdentifier="[OASISdefinedName | TCdefinedName]" -->.
```

The TC Administrator will determine how Required Metadata is to be expressed for structured markup.

6.4.3 Adobe PDF, Microsoft Word and OpenDocument Filetypes

Artifacts whose form is Adobe PDF, Microsoft Word, or the OpenDocument Text forms MUST include the Required Metadata values on their cover page as defined in OASIS-supplied templates.

The form MUST be appropriate to the artifact.

The filename MUST be the ArtifactIdentifier followed by the optional literal period and form

Where an interpreting application allows metadata or key words, the artifact identifier and the metadata values SHALL be identified as keywords and/or document metadata visible to that interpreting application.

6.4.4 Other Word Processing or Desktop Publishing Filetypes

Artifacts of forms other than those specified in the preceding sections MUST conform to OASIS-supplied templates if they exist, and MUST contain the Required Metadata values on their cover page.

The form MUST be appropriate to the artifact.

The form must be approved by the TC Administrator.

The filename MUST be the ArtifactIdentifier followed by the optional literal period and form
Where an interpreting application allows metadata or key words, the artifact identifier and the metadata values SHALL be identified as keywords and/or document metadata.

6.4.5 Other Binary File types

Artifacts created with applications not discussed here, and stored as binary files, SHOULD, if possible, use custom properties fields, if available, to populate the required artifact identifiers.

The **form** MUST be appropriate to the artifact. Both **form** and its values MUST be approved by the **TC Administrator**.

The full **ArtifactIdentifier** followed by the optional literal period and **form** MUST be the filename.
7 Uniform Resource Names and Namespaces
(Normative)

7.1 Application of RFC 3121

The terminology and metasyntactic variables used in this section are consistent with [RFC 3121] rather than with the rest of this set of requirements.

The terminology and expression of URN components in [RFC 3121] is not completely consistent with this document; please note that the [RFC3121] specification-id and document-id contain hyphens. We attempt to limit confusion by using those terms exactly as in [RFC3121] as issued.

In the event that a TC chooses to use a URN as an additional identifier that URN MUST follow [RFC 3121], which specifies a prefix:

\[
\text{urn:oasis:names:}
\]

followed by two variations:

\[
\text{tc:{tc-id}:{type}::{subtype}?{document-id}}
\]

or

\[
\text{specification:{specification-id}:{type}::{subtype}?{document-id}}
\]

depending on the status of the artifact at the time the URN is constructed. The first form in [RFC 3121] is for TC drafts and other documents, the second form for OASIS Standards.

document-id is the only component of the URN not specified by [RFC 3121] or by the TC Administrator; appropriate values are defined in this section.

The tc-id is the Owner's (usually the TC's) unique identifier for URNs, as specified by the TC Administrator. The OASIS TC Administrator SHALL use the TC Short Name as the "tc-id". The specification-id is a unique identifier for the OASIS Standard, is assigned by the TC Administrator, and MUST be exclusively in the character set defined Section 5.2, excluding the hyphen character. The specification-id SHALL be the same as Product as defined in Section 3.

The document-id is the document's unique identifier, and is specified by the Technical Committee pursuant to these Guidelines and with the approval of the TC Administrator. The document-id for a URN requires fewer components than other identifiers specified in this document because some of the metadata is in the URN path prefix. However, at the discretion of the TC Administrator the document-id MAY contain the entire Artifact Identifier as specified in Section 5.

Note that the colon character is not permitted in document-id or in ArtifactNames.

Type and sub-type SHOULD be used with caution, as [RFC 3121] is not precise on this subject (and should be revised to correct this). It is RECOMMENDED that only the following types be used: document, schema, stylesheet, and entity. It is RECOMMENDED that only the following sub-types be used and only when the type is schema: dtd, rng, and xsd.

OASIS namespace declarations pursuant to [XML NS 1.1] or [XML NS 1.0] MUST use either this class of identifier or a URI as described in Section 6.2.

The two forms of URN defined in [RFC 3121] focus on the Technical Committee as Owner and the Product. Form One places the Product under the TC:

\[
\text{urn:oasis:names:tc:docbook:schema:dtd:dcbk4.1.2_dbhier.mod}
\]

Form Two places the Product under the more generic (than in ArtifactType) "specification":

\[
\text{urn:oasis:names:specification:ubl:schema:xsd:CoreComponentParameters1.0}
\]
Form One (with the TC identified with the Product) should be deprecated in a future update to [RFC3121]. Form Two mirrors the definition of Product as used for the application of the OASIS IPR Policy [OASIS IPR], but is used in [RFC 3121] only for OASIS Standards, and is inserted under

```
-oasis:names:specification-
```

Form Two should be extended beyond just OASIS Standards in a future update to [RFC3121]. The text of [RFC3121] explicitly commits OASIS to maintaining a capability to resolve OASIS URNs. This approach seems to have fallen from favor; there appears to be no present or planned resolver capability supported by OASIS.

OASIS SHOULD revise [RFC 3121] and [RFC 3120] to conform to these guidelines and to remove the commitment to resolve OASIS URNs.

OASIS SHOULD inform potential users that they CAN NOT depend on the Name Resolution Section of [RFC 3121].

OASIS TC Administration SHOULD insofar as possible enforce similar components and hierarchies in the http and urn schemes to minimize conversion and maintenance expense, permitting OASIS URNs to be resolvable at some future time.

### 7.2 Namespaces

OASIS namespace declarations pursuant to [XML NS 1.1] or [XML NS 1.0] MAY be defined as URIs using the http scheme as an alternative to the URN form defined in Section 6.1.

Each OASIS namespace defined as an http scheme URI MAY resolve to a web page that either contains a schema, a RDDL definition, or other browsable and well-defined data for implementing the namespace. (Note that URNs need not be resolvable, and in some models even http scheme URIs for namespaces need not be resolvable.)

OASIS namespace http scheme URIs are NOT REQUIRED to have the final component end in `.html` due to the broad range of namespace conventions.¹

All OASIS-defined http scheme namespaces MUST use domain names owned by OASIS and as approved from time to time by the TC Administrator.

It is RECOMMENDED that TCs define namespace URIs within the product URI space.²

---

¹ For example, one common convention lists an XML schema (.xsd) file, while others use RDDL definitions, and still others use an ordinary (x)html web page.

² We recognize that existing practice includes defining namespace URIs directly under the TC point in the URI/URN hierarchy. Note that packaging a product for submission as an OASIS standard requires including all files in a ZIP archive, which might be simpler if all related files are within a product hierarchy.
7.3 Other Namespaces and URNs

Groups in OASIS may need temporary locations for e.g. test or temporary names. We propose that a dedicated URN be defined for each such group.

For example, for UDDI definitions that are not yet considered appropriate for the UDDI Global Business Directory, a URN prefix of

\[ \text{urn:oasis:names:test:uddi} \]

or

\[ \text{urn:oasis:names:tc:uddi:test} \]

might be used within the OASIS URN space, with prefix \text{urn:oasis:}. Since the latter mirrors more closely the [RFC 3121] Form One, and places the test namespace under the respective TC’s, we require that form (and its future evolution):

OASIS SHALL support temporary or test namespaces for each under its \text{tcShortName} with URNs with prefix

\[ \text{urn:oasis:names:tc:[tcShortName]:test} \]

OASIS SHALL NOT guarantee any specific lifetime to URNs in those test spaces for the TCs.

In any revision or replacement for [RFC 3121] OASIS SHALL indicate that these test spaces are temporary and the content not guaranteed.
8 Persistent URIs (Normative)

Persistent http URIs SHALL be maintained for each artifact contributed to or created by an OASIS technical committee.

Legacy persistent http URIs, where they currently exist, MUST be supported and continue to resolve.

The TC Administrator MAY link legacy documents into the artifact identification structure defined in these requirements.

8.1 Base Domain For URIs

URIs created for all OASIS artifacts created by or pertaining to technical committees SHOULD be rooted at the docs (third-level) domain on the oasis-open.org Internet domain, thus at the base docs.oasis-open.org.

8.2 Technical Committee Tree

The short name of the OASIS technical committee, as established by the TC Administrator, typically upon initial formation, MUST be the next node in the URI after the base:

docs.oasis-open.org/[tcShortName]

An index page MUST be maintained at the default location (typically docs.oasis-open.org/[tcShortName]/index.php), which SHALL contain links listing all subtrees and their contents.

8.3 Type Identifiers

8.3.1 Products

A Product is a set of artifacts that pertains to a single topic and is a main output of a technical committee. Each Product is assigned an identifying name by the TC Process Administrator. A separate subtree MUST be created and maintained for each such specification set.

docs.oasis-open.org/[product]

An index page MUST be maintained at the default location (typically docs.oasis-open.org/[product]/index.php), which SHALL contain links listing all subtrees and their contents.

8.3.2 Profiles

Profiles are treated the same as Products and MUST conform to all of the rules contained within the TC Process Policy.

If a profile is part of a Product it goes in the Product tree:

docs.oasis-open.org/[product]/[profileID]

An index page MUST be maintained at the default location (typically docs.oasis-open.org/[tcShortName]/index.php), which SHALL contain links listing all subtrees and their contents.

8.3.3 Non Specification Track Documents

Technical committees may, on occasion, create documents that are not directly related to a Product but instead are intended as educational or marketing tools. Such documents include, but are not limited to, white papers, presentations, or tutorials.

docs.oasis-open.org/[tcShortName]/other
An index page MUST be maintained at the default location (typically docs.oasis-open.org/[tcShortName]/other/index.php), which SHALL contain links listing all subtrees and their contents.

The TC Administrator MAY define the default location in a manner consistent with the use of ArtifactTypes, noting that there are additional ArtifactTypes defined in this document.

8.4 Specific Version Subtrees

For each specific version of a specification or profile artifact or set of artifacts, a unique subtree MUST be maintained.

docs.oasis-open.org/[product]/[productVersion]

An index page MUST be maintained at the default location (typically docs.oasis-open.org/[tcShortName]/[product]/[productVersion]/index.php) that contains links listing all subtrees and their contents.

ProductVersion is the character "v" followed by a digit and ending with a digit as defined in the required metadata.

8.5 Latest Version Subtree

The most recent version of specification or profile artifacts or set of artifacts MUST be available at this location.

docs.oasis-open.org/[product]/latest

An index page MUST be maintained at the default location (typically docs.oasis-open.org/[product]/latest/index.php), which contains links listing all subtrees and their contents.

This subtree is intended to aid Technical Committee work in developing, prototyping, and testing their Products and conformant software, so test software might use (e.g.) the latest version of a schema without recompilation or rebinding as a schema is evolved.

The most recent version still must be present in the fully named Product hierarchy, so in effect latest will root a tree of links into the fully named specific version subtrees and artifacts.
Appendix A. Acknowledgements (Non-normative)

The following individuals have participated in the creation of this specification and are gratefully acknowledged:

Participants:
(participants who have not yet responded with corrections for name and affiliation are marked with an asterisk)

Anne Anderson        Sun Microsystems Inc   Jishnu Mukerji    Hewlett-Packard
Kathryn Breininger   The Boeing Company     Peter Niblett*   IBM
Peter Brown*          Individual Member      Robert Orosz     Auto-trol Technology Corporation
Martin Chapman*       Oracle               Gilbert Pilz      "BEA Systems, Inc"
James Bryce Clark*    OASIS                Drummond Reed    Cordance
Robin Cover*          OASIS                Ian Robinson*    IBM
William Cox           Individual Member      Krishna Sankar*  Cisco
Jacques Durand*       Fujitsu Limited      Tim Stevens      LexisNexis
Chet Ensign           LexisNexis            Gene Wachob*     Visa
Christopher Ferris    IBM                  Pete Wenzel*     Sun Microsystems Inc
Eduardo Gutentag      Sun Microsystems Inc   
Frederick Hirsch*     Nokia                
Andre Kramer          "Citrix Systems, Inc."
Hal Lockhart          "BEA Systems, Inc"
Matthew MacKenzie     Adobe Systems Incorporated
Michael Mahan         Nokia                
Eve Maler*            Sun Microsystems Inc   
Mary McRae*           OASIS                
Dale Moberg*          Cyclone Commerce
Tim Moses*            Entrust
The following context-free grammar conforms to [ISO 14977], also known as EBNF. This grammar is incomplete and may contain errors. For simplicity with the underscore rules, it is assumed that components and TcdefinedNames are at least three characters long.

ArtifactName = OASISdefinedName | TCdefinedName ;

TCdefinedName = NAMECHAR, {NAMECHAR | HYPHEN}
[PERIOD, Form]; (* used only for filenames *)

OASISdefinedName = NameForOASISstandard | NameForOtherArtifact;

NameForOASISstandard = Product,
HYPHEN, Version,
HYPHEN, ArtifactType,
HYPHEN, Stage,
[HYPHEN, Language], (* optional, defaults to 'en' *)
[PERIOD, Form]; (* used only for filenames *)

NameForOtherArtifact = Product,
HYPHEN, Version,
HYPHEN, ArtifactType,
HYPHEN, Stage,
HYPHEN, Revision,
[HYPHEN, Language], (* optional, defaults to 'en' *)
[PERIOD, Form]; (* used only for filenames *)

(* Name Component and Metadata Definitions *)

Owner = 'oasis' | TCshortName;

TCshortName = NAMECHAR, {NAMECHARPLUSUNDERSCORE | NAMECHAR};

Product = NAMECHAR, {NAMECHARPLUSUNDERSCORE | NAMECHAR}

Version = 'v', Major, {PERIOD, Minor}; (* allows e.g. v3.0.1, v2.2, v4 *)

Major = DIGIT, {DIGIT};

Minor = DIGIT, {DIGIT};

ArtifactType = 'catalog' | 'conform' | 'errata' | 'profile' | 'req' | 'schema' | 'spec'; (* plus others *)
Stage = 'wd' | 'cd' | 'pr' | 'cs' | 'os';

Revision = 2*(DIGIT), ['diff', ('diff', 2*(DIGIT))];

Language = LOALPHA, LOALPHA; (* per [ISO 639] *)

Form = 'pdf' | 'xsd' | 'doc' | 'txt' | 'html' | 'xhtml' | 3*{LOALPHA} | 4*{LOALPHA};

(* Character Set and Character Names *)

NAMECHAR = LOALPHA | HIALPHA | DIGIT;

NAMECHARPLUSUNDERSCORE = NAMECHAR | UNDERSCORE

(* LATIN SMALL LETTER A through Z, codes 6/1 through 7/10 [ECMA-6] *)

LOALPHA = 'a' | 'b' | 'c' | 'd' | 'e' | 'f' | 'g' | 'h' | 'i' | 'j' | 'k' | 'l' | 'm' | 'n' | 'o' | 'p'

| 'q' | 'r' | 's' | 't' | 'u' | 'v' | 'w' | 'x' | 'y' | 'z';

(* LATIN CAPITAL LETTER A through Z, codes 4/1 through 5/10 [ECMA-6] *)

HIALPHA = 'A' | 'B' | 'C' | 'D' | 'E' | 'F' | 'G' | 'H' | 'I' | 'J' | 'K' | 'L' | 'M' | 'N' | 'O' | 'P'

| 'Q' | 'R' | 'S' | 'T' | 'U' | 'V' | 'W' | 'X' | 'Y' | 'Z';

(* DIGIT ZERO through DIGIT NINE, codes 3/0 through 3/9 [ECMA-6] *)

DIGIT = '0' | '1' | '2' | '3' | '4' | '5' | '6' | '7' | '8' | '9';

(* HYPHEN-MINUS code 2/13 [ECMA-6] *)

HYPHEN = '-';

(* FULL STOP code 2/14 [ECMA-6] *)

PERIOD = '.';

(* LOW LINE code 5/15 [ECMA-6] *)

UNDERSCORE ="_"
Appendix C. Summary Table of Components (Non-Normative)

Key: In names, Y means “must be present,” N means “must not be present,” O means “optional,” and Y-A means “must be present but an alternative name is defined in these guidelines.” Alphanumeric refers to the restricted set of lower and upper case Latin alphabet letters and digits. The permitted characters avoid [RFC 3986] restricted characters.

<table>
<thead>
<tr>
<th>Metadata</th>
<th>Metadata Identifier</th>
<th>Where Defined</th>
<th>Managed by</th>
<th>Value Type</th>
<th>Example</th>
<th>Required Metadata</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifier of the artifact (one of two forms)</td>
<td>OASISdefinedName</td>
<td>here</td>
<td>components are managed</td>
<td>Alphanumeric plus &quot;.&quot; and &quot;.&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Owner of the artifact</td>
<td>Owner</td>
<td>TC Admin</td>
<td>TC Admin</td>
<td>Alphanumeric</td>
<td>wsrp</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Specification ID or product</td>
<td>Product</td>
<td>here</td>
<td>TC Admin</td>
<td>Alphanumeric</td>
<td>SAML</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Version of the Product</td>
<td>ProductVersion</td>
<td>here</td>
<td>Owner with TC approval</td>
<td>Arabic numerals, major number, &quot;.&quot;, minor number, optional additional period and number</td>
<td>SAML 1.0 is ProductVersion =&quot;1.0&quot;</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Type of the Artifact</td>
<td>ArtifactType</td>
<td>here, TC Admin</td>
<td>TC</td>
<td>Alphanumeric</td>
<td>schema, requirements, specification, interop, whitepaper, testassertions</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

Notes:
- The "short name" for the TC or defining group. Need hyphen-less name. Product uniquely determines Owner.
- Case sensitive. See Requirements.
- Certain specs have numbers such as 3.0.2.
- Value domain managed by TC Admin. Limited ArtifactType is earlier in the URN.
<table>
<thead>
<tr>
<th>Metadata</th>
<th>Metadata Identifier</th>
<th>Where Defined</th>
<th>Managed by</th>
<th>Value Type</th>
<th>Example</th>
<th>Required Metadata</th>
<th>In Artifact Identifier</th>
<th>In URN document-id</th>
<th>In Schema Name</th>
<th>In OASIS Standard</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage of <em>artifact</em> production process, or maturity level</td>
<td>Stage</td>
<td>here, TC Admin</td>
<td>TC Admin with TC</td>
<td>Alphanumeric</td>
<td></td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>O</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Name as defined by the TC</td>
<td>TCdefinedName</td>
<td>TC</td>
<td>TC</td>
<td>Alphanumeric</td>
<td>ContextMobileOneFactor Unreg</td>
<td>Y</td>
<td>O</td>
<td>O</td>
<td>Y-A</td>
<td>O</td>
<td>Used as an alternative to the OASISdefinedName.</td>
</tr>
<tr>
<td>Revision of the <em>artifact</em></td>
<td>Revision</td>
<td>here</td>
<td>TC</td>
<td>Arabic numerals followed by Alphanumeric string “diffNN” where NN is a number indicating the Revision compared.</td>
<td>01, 2, 003, 17, 17diff16</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y-A</td>
<td>N</td>
<td>Schemas have an alternate name available without revision</td>
</tr>
<tr>
<td>Language (human) of the <em>artifact</em></td>
<td>Lang</td>
<td>ISO 639</td>
<td>ISO 639</td>
<td>Lower case Alphanumeric</td>
<td>en, jp, fr</td>
<td>Y</td>
<td>Y*</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y* - yes if not &quot;en&quot;</td>
</tr>
<tr>
<td>Format of the <em>artifact</em></td>
<td>Form</td>
<td>here, TC Admin</td>
<td>TC</td>
<td>Alphanumeric</td>
<td>xml, rtf, html, pdf, xhtml, xsd, sxw, doc, zip</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Use &quot;html&quot; rather than &quot;htm&quot;</td>
</tr>
<tr>
<td>Date of the <em>artifact</em></td>
<td>Date</td>
<td>Here</td>
<td>TC</td>
<td>Digits</td>
<td>20050413</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>YYYYMMDD</td>
</tr>
</tbody>
</table>

*Alphanumeric The restricted set of lower and upper case Latin alphabet letters and digits, including underscore as a possible interior character. Avoids [RFC 3986] reserved characters.
## Appendix D. Revision History (Non-normative)

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>By whom</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>WD 01</td>
<td>12 Sep 2003</td>
<td>Tim Moses</td>
<td>Initial draft</td>
</tr>
<tr>
<td>WD 02</td>
<td>10 Oct 2003</td>
<td>Tim Moses</td>
<td>Introduced the product component. Introduced the urn convention.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Introduced the hyperlink prefix.</td>
</tr>
<tr>
<td>WD 03</td>
<td>1 Mar 2004</td>
<td>Tim Moses</td>
<td>Incorporated comments from Eduardo</td>
</tr>
<tr>
<td>WD 04</td>
<td>4 Apr 2004</td>
<td>Tim Moses</td>
<td>Incorporated decisions of the TAB meeting on 2 April 2004.</td>
</tr>
<tr>
<td>WD 05</td>
<td>9 Jul 2004</td>
<td>William Cox</td>
<td>Incorporated comments from TAB email and discussion, prior to broader publication within OASIS.</td>
</tr>
<tr>
<td>WD 06</td>
<td>9 July 2004</td>
<td>Chris Ferris</td>
<td>Why are we calling these things &quot;objects&quot;. That term carries way too much baggage. Artifact or document would be preferable, Also added in some editorial tweaks. Name change for document. Should it go back to WD1?</td>
</tr>
<tr>
<td>WD 07</td>
<td>23 September 2004</td>
<td>William Cox, Tim Moses, Chris Ferris</td>
<td>Added extensive examples. Added a context-free grammar and ensured that the grammar and document were reasonably consistent. Changed all occurrences of &quot;document&quot; to &quot;artifact.&quot; Numerous editorial clarifications and changes.</td>
</tr>
<tr>
<td>WD 08</td>
<td>4 October 2004</td>
<td>William Cox</td>
<td>Pulled URN section pending update. Updated Introduction and the document as a whole for recirculation to the Chairs list. Added note about anticipated effective date. Alas, the editorial changes are so pervasive that a diffmarked version with respect to WD 06 is not very useful.</td>
</tr>
<tr>
<td>WD 09</td>
<td>21 October 2004</td>
<td>William Cox, Eduardo Gutentag</td>
<td>Reintegrated updated/corrected URN section, minor editorial corrections. Pulled applicability requirements into a separate normative section.</td>
</tr>
<tr>
<td>WD 10</td>
<td>14 April 2005</td>
<td>William Cox</td>
<td>Rewrote and restructured addressing multiple comments from OASIS staff and others. Added summary table to Appendix. Still needs validation of examples and update of grammar.</td>
</tr>
<tr>
<td>WD</td>
<td>Date</td>
<td>Author</td>
<td>Notes</td>
</tr>
<tr>
<td>------</td>
<td>------------</td>
<td>--------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>WD 11</td>
<td>25 April 2005</td>
<td>Mary McRae</td>
<td>Transferred to new template; reflected comments and open issues from TAB meeting in New Orleans</td>
</tr>
<tr>
<td>WD 12</td>
<td>1 June 2005</td>
<td>William Cox</td>
<td>Integrated comments, updated, numerous editorial changes. Annotated remaining issues.</td>
</tr>
<tr>
<td>WD 13</td>
<td>7 June 2005</td>
<td>William Cox</td>
<td>Comments from June 4 CSC meeting. Created separate issue list for Public Review, continued to identify and correct issues with the text. Added TCdefinedName to disambiguate multiple artifacts of the same type and otherwise identical metadata. For internal review (QSC, OASIS Staff, selected TCs) before public review.</td>
</tr>
<tr>
<td>WD 14</td>
<td>23 June 2005</td>
<td>William Cox</td>
<td>Comments from TAB, Staff, additional clarifications.</td>
</tr>
<tr>
<td>WD 15</td>
<td>30 June 2005</td>
<td>William Cox</td>
<td>Update for general membership review; added note that the persistent URIs at the head are not active, instructions for submitting comments, and separately updated the review questions. Other content is unchanged.</td>
</tr>
<tr>
<td>WD 16</td>
<td>21 October 2005</td>
<td>William Cox</td>
<td>For TAB and staff re-review. Numerous changes. Incorporates all accepted changes (roughly 75) from Entity Resolution TC and Member Review. Tried splitting, but sections 5, 6, 7, and 8 would be only a few pages each with identical definitions, so kept it together.</td>
</tr>
<tr>
<td>WD 17</td>
<td>7 December 2005</td>
<td>William Cox</td>
<td>Changes from detailed TAB review, staff update on file naming conventions and persistent URIs. Acknowledgements inserted. Removed examples (to be published separately by TC Administrator).</td>
</tr>
<tr>
<td>1.0</td>
<td>30 January 2006</td>
<td>William Cox</td>
<td>Updates for second general membership review. Inserted notes at head of document and in introduction to explain status.</td>
</tr>
</tbody>
</table>