Energy Market Information Exchange Technical Committee
Minutes for Thursday, 2 September 2010, 11:00am EDT

Agenda

1. Call to Order
2. Roll Call
3. Approve minutes of previous meetings (Aug 5 and 19)
4. Action Items (Anne)
5. Overview and discussion of changes in WD 10 (Toby Considine)
6. Discussion - What is a Product? Market Product? (Bill Cox)
7. Adjourn

Attendees  Member / Company (* = voting)

Bruce Bartell  Southern California Edison
Edward Cazalet*  Individual
Toby Considine*  University of North Carolina at Chapel Hill
William Cox*  Individual
Sean Crimmins  California Independent System Operator
Anne Hendry*  Individual
Alex Levinson*  Lockheed Martin
Ruchi Rajasekhar  Midwest Independent Transmission System Operator
Jeremy Roberts  LonMark International
Brian Zink  New York Independent System Operator

Minutes

1. Call to Order (Toby Considine)
   Call to order.

2. Roll Call (Anne Hendry)
   Voting Members: 5 of 8 (62%)
   Members: 10 of 51 (19%)
   Meeting achieved quorum.

3. Approve minutes of previous meetings (Aug 5)
   Toby Considine move to approve both meeting minutes; Sean Crimmins seconds.
   No discussion, no objections.
   Minutes approved.

4. Action Items (Anne Hendry)
   Will wait for Phil on details of Meter ID (AI #017).
5. Overview and Discussion of Changes in Working Draft 10 (Toby Considine)

Toby C:
Working Draft 10 is a simplification of the previous version. Moved ws-calendar descriptive section to an appendix. In Section 2 reduced the argumentative and expository content to get down to basics. The information structure is tighter. There is an explicit callout of scheduling.

Section 2.4 (line 333): Overview of Information Elements

Toby C:
Looking for term to use instead of 'Delivery'. There is a difference between Transmission and Distribution in different markets so trying to abstract away from those words. Would like to discuss further. 2 big classes of transport charges are Shrinkage (reduces the amount delivered) and Surcharges (add to the cost).
Sean C: First heard 'Transport' as 'Message Transport'.
Toby C: Yes, that is a problem. Welcome other suggestions.

Section 2.4.4 (line 258) and Table 2-1: Intrinsic Elements

Toby C: Comments on 'EndDeviceAsset' are still to be incorporated.

Section 2.4.5 (line 363) and Table 2-2: Extrinsic Elements

Warrant List:
We had been using the term 'Certificates', now using 'Warrants'. Warrant is claiming something is true. Still need input from ISOs for better/best terminology. We want to be able to have that information travel along with the packets; want it to be part of the transaction.

Price Support: This is other documentation explaining why a price may be what it is.

Energy Quality: It has been suggested this is an intrinsic quality and should move up.

Section 2.4.5.1 (line 369) and Table 2-3: Warrant Information Examples

Toby C: I have ProductQuality as a warrant. Is this correct? Welcome guidance.

Section 3 (line 389) and Table 3-1: Generic EMIX Information Model

Toby C:

Product: Product will be discussed separately in the next agenda item.

Duration:
WS-Calendar defines how to associate an information artifact with a Partition. A Partition is a sequence of consecutive time Intervals. The Duration of each Interval can be specified individually or inherited from the Association. This allows you to say '15 minutes' applies to everything in here. Also there's an inheritance override capability so can put an optional duration on the outside to say 'I'm talking about 15 minute intervals in here'.

Quantity and Unit Price:
You can override with quantity and/or unit price – either or both. Doesn't need to be specified for each variable because it can be specified by default on outside. The Quantity of Product can be set in the Association or in each Interval.

Partition:
Ed C: Assume when we define a 'partition' that can be a single interval? Toby C: Yes.

Extended Price:
Exists because some market operations could use outside price for entire bundle, but no implication on how it's calculated – the extended price could be different than the sum of the price for the intervals. It's on outside of envelope so could make decisions just by looking outside of the envelope but if you want to know more, can look inside. Specifying Extended Price is optional.
Section 3.1 (line 396): Associations and Intervals
Toby C:
Question: Should we distinguish between an Interval that has a Price, an Interval that has a Quantity, and one that has both? The first two are types of offers, the last is a contract or records the sale.

Section 4 (line 402): Electrical Power and Energy Products
Toby C:
Significantly different from last time. Now have fewer product defined. Combined Block and Full Requirements for AC and DC into two elements, and added an AC/DC flag.

Section 4.1.3 (line 472) and Table 4-3: DC Power Load Artifact

Section 4.2 (line 474): Power Quality

Section 4.3 (line 478): Electric Power Quality

Section 4.3.1 (line 482): DC Power Quality
Toby C: What's here now is to get the conversation started. Welcome suggestions.
Ed C: PAP 10 has a power quality definition that is similar.

Section 5 (line 488): Delivery Artifacts and
Table 5-1 (line 498): Transmission and Distribution Artifacts
Toby C:
Table should probably be renamed 'Transport Artifacts'.
Still need to incorporate 4 variables from last technical meeting.
Anything to do with congestion charges, etc. can have it's own partition.

Section 6 (line 502): EMIX Warrants
Toby C: TBD.

Section 7 (line 507): XML Schema for the EMIX Information Model
Toby C: Will probably be called out in a separate document.
Sean C: Will the information model be part of the standard?
Bill C: Schema xsd (and/or wsdl) and spec would be normative deliverables; can put graphics and/or illustrations in the spec. An EA file can be provided separately as a non-normative document.
Sean C: Will the EAP model be available? Bill C: Yes.

Toby C: Next work is to expand Section 5, Delivery Artifacts, and 4.2, Power Quality, then finalize.

Bill C:
In support of making progress towards our public review, if you see a major issue please put it in Jira applied to Working Draft 10.

6. Discussion – What is a Product? Market Product? (Bill Cox)
Bill C:
One of the key things is we're working on is creating price and product definitions intended to communicate actionable information. There have been different ideas on what constitutes 'product' – what is included in a product definition. Would like to first start with the essential characteristics of a product. If we're buying and/or selling something we need to know what it is we're buying and/or selling.
A product would basically be something someone has offered to sell and someone else can buy. If a product is offered to me as a resident by a power supplier it can be offered in different ways: full price, guaranteed, ... For instance, 3 different products could be:
- full price (real time service)
- dynamic pricing with full requirements
- or guaranteed for 30 years (fixed quantity)
That is the retail level, but then there is also the wholesale level – ISOs have their own way of defining their products, with categories of ancillary services, etc. The underlying product is electricity and there can be an infinite number of combinations/parameters.

From the CAISO perspective, the product is the core thing you're selling. Which markets, when you receive it, those things are not part of the product. The product is always Energy; just as in other examples where the product is tomatoes. How you buy something or when you buy it or what you pay for it is not part of the core definition of the product.

It may not matter where you purchase it but does it matter what time you purchased it for? Even though the product is the energy, this hour and that determine price.

You can define something (like energy) at a location in a give time interval and theoretically could call that a product but that definition conflicts with the way most people use the term product. Energy not an easily storable commodity. You could put a different name on energy with an associated time interval and location.

Yes, I completely agree. Energy product is electrical energy produced. Other products are capacity products (reservations to deliver) and you can compare those so they have their own attributes. But you need something that stands alone in order to compare them.

Yes. If it's bound to a time and place we would call that a 'Schedule' or 'Award', although the more generally used term would be a 'Transaction'.

To get back to the tomato analogy, have to remember that delivery is by a company more like Peapod – the only company that delivers to your home. Most of the time there is only one person delivering. That is a big factor in terms of delivery location. No matter what the product is, the delivery mechanism is still the same. The delivery location becomes an attribute of the product itself. So in thinking about location and time as attributes of the product consider peaches instead of tomatoes. If NJ peaches are in season you buy those instead of say GA peaches. NJ peaches are only in season through a short period - so time is relevant. Even though it's the same product and both delivered by the same delivery truck.

As an editor, going back to the original question, I am looking for a word to use for “Yes, can deliver energy to you between 2 and 3 tomorrow afternoon.”; or “At 2pm this afternoon the price is going to be xyz.”. When it's an accepted contract, what do we call it? When it's a future offer, what do we call it? Do we have different words for products associated with a schedule from products associated with price? Do we have both?
Ed C:
You're trying to do two different things. When you use the calendar structure, you're trying to have something varying by time. When we look at trying to define a product, it's both by time and location. Some of the attributes of a product offering will vary by time and possibly location.
Toby C:
I need a different word for the thing that is product with time and place. Might put something with no price, no schedule, or has schedule/load profile that doesn't have time.
Bill C:
We are talking about product at a bit higher level of abstraction (no specific time or location). Then when location and/or schedule are bound, it becomes something different. I think we're hearing that if both are bound then we need a name. Also in market interactions, when one or another are bound, need a name. Maybe 4 things we need names for.
Toby C:
If I'm offering DR I may have a particular time sequence that is bound (first hour can only offer this at this price) but this is only an offer, not a contracted agreement yet.

ACTION: Bill begin an email discussion on this.

7. Adjourn

Toby C move to adjourn; Ed C second. No discussion/objections. Adjourned 12:06.