

Minutes ETC meeting, November 22nd, 2023	 European forum for energy Business Information eXchange
November 30 th , 2023	ETC – ebIX[®] Technical Committee

Date: Wednesday November 22nd, 2023

Time: 10:00 – 14:00

Place: GoToMeeting

Present: Jan (NL), EDSN
Jan (SE), Svenska kraftnät
Kees, ebIX[®]
Ove, ebIX[®]

Appendix A: ebIX[®] rules for how to make MRs to WG16

Appendix B: Mapping from ebIX[®] class diagrams for Validated measured data for continuous metered AP to CIM

Attachment:

1. Appendixes for ETC minutes (docx)
2. ETC workplan (see ebIX[®] file manager at <https://filemanager.ebix.org/#>)

1 Approval of agenda

The agenda was approved.

2 Approval of minutes from previous meeting

The minutes from previous meetings were approved.

3 Resolve matters related to close down of ebIX[®]

The session file for the ebIX[®] Forum close down meeting December 6th was reviewed and slightly updated.

It was agreed making a “handover” document to JWG. It will be a common ebIX[®] document, including documents to handover from ETC and EBG:

- The document will mainly be a list over documents approved by the ebIX[®] members (ebIX[®] Forum) and published at the ebIX[®] web site.
- We will publish a zip file with word versions of the documents published at the ebIX[®] web site.
- The content of the cloud repository will be a part of the handover document.

To remember item:

- Publication of the latest versions of the ebIX[®] model in EA and MD format at the ebIX[®] web site by the end of the year.

Action:

- Ove will investigate if there are classes, attributes, associations etc. in ESDMP that we haven’t made MRs for.
- Ove will make a draft hand over document for JWG with help from Jan (NL) for how to hand over the cloud repository.

4 Resolve ebIX®/IEC issues

4.1 Making a European Style Downstream Market Profile (ESDMP)

4.1.1 [MRs based on Dutch requirements](#)

Jan (SE) has submitted ebIX® MRs 2021/035, 2021/038 and 2021/040 to the CIM for retail market wg, however they have not yet been discussed.

The following action items will be skipped (run out of time):

- 1) Kees will add a MR to the series of other MRs that will be sent from ebIX® based on the Dutch requirements for changing the cardinality of the association between Acknowledgement_MarketDocument and Sender_MarketParticipant/Receiver_MarketParticipant from mandatory [1] into optional [0..1].
- 2) Kees will try to come up with a refined table showing the Dutch MRs, including examples.
- 3) Kees will investigate the usage of a reference to a related document (probably only used in the acknowledgement in the Netherlands) and see if he can find a justification of the “rename of the association named Original Market Document to something more generic”.

Continued actions:

- 1) Jan (NL) will go through the Dutch MRs and see if more of the MRs are MRs to 62325-351 (ESMP).
- 2) Jan (NL) will verify if MR 2021/044 (Addition of association from Register to Product) still is valid.

4.1.2 [Review of non-submitted MRs from the ETC Excel sheet - focus item](#)

Unresolved items:

- Status for request from Jan (SE)/Kees to Alvaro to change the direction of the association from MarketEvaluationPoint to MktActivityRecord in ESMP, ref. MR 2022/012.

The following MRs has been submitted to CIM for retail market tf:

- 1) Ove will make ebIX® MR 2022/014 (Add an association from MktActivityRecord to ChargeGroup) and send it to ETC for comments before Jan (SE) submits it to the CIM for retail market wg.
- 2) Ove will make a MR for adding explanatory text to the longitude, latitude and altitude attributes in PositionPoint, in ESMP.

Item closed.

4.1.3 [MRs related to Accounting Point Characteristics](#)

Continued action:

- Ove will finalise the mapping from the Accounting Point Characteristics class diagram to CIM and map to both basic CIM and ESMP.

4.2 Status for ENTSO-E CIM EG Retail market tf (follow-up item on the agenda)

Jan (SE) had submitted the following MRs to CIM for retail market wg:

- ebIX® 2022-014-v1 - Add an association from MktActivityRecord to ChargeGroup
- ebIX® 2022-030-v9 - Add GridAgreementTypeList to ESMP
- ebIX® 2023-016-v1 - Add a multiplier attribute to the Register the 61968 and ESMP
- ebIX® 2023-018-v1 - Add Channel and ReadingType classes and accumulation attribute to ESMP
- ebIX® 2023-019-v1 - Add explanatory text to xPosition etc in PositionPoint in ESMP

Item closed.

4.3 Preparations for coming WG16 meetings

Jan (SE) will inform WG16 of the close down of ebIX® at one of the coming WG16 Thursday meetings.

Item closed.

5 EG1 status

Kees informed that SGTF and EG1 closes down and will be continued by the EU body "[Smart Energy Expert Group](#)".

6 Update of ebIX® code list

Jan (SE) had as homework run a QA on the code list. Based on Jan (SE)'s homework a few corrections were done.

Action:

- Ove will publish the ebIX® code list.

Item closed.

6.1 Status for GS1 product code for hydrogen

Gasunie is working on issuing a GS1 product code for hydrogen.

Item closed.

7 Resolve HG issues

7.1 BRP vs Energy Trader

Now a Trade Responsible Party inherits from a BRP, which means that he inherits all the characteristics of the BRP. However the Trade Responsible Party has always a "balance position", i.e. not dealing with physical energy. Hence, we suggest turning the direction of the generalisation.

In addition we suggest a rephrasing of the definition of the Trade Responsible Party:

A party who can be brought to rights, legally and financially, for any financial imbalance within a given imbalance settlement period between energy nominated and consumed for all associated Accounting Points.

Note:

A power exchange without any privileged responsibilities acts as a Trade Responsible Party.

Kees reported that in the Netherlands there are no Trade Responsible Parties anymore. The same applies to Sweden.

The item must be followed up by JWG, hence item closed.

7.2 Status for harmonisation of the electricity and gas markets role models

The item must be followed up by JWG, hence item closed.

7.3 Status for HG (and ENTSO-E) discussions related to MR for the new domain (or CIM object) Grid Connection

The item must be followed up by JWG, hence item closed.

8 ebIX® Business Information Model 2022.A

The item must be followed up by JWG, hence item closed.

8.1 Continue review and update of version 2022.A

The item must be followed up by JWG, hence item closed.

9 Next meetings¹

- Friday December 8th, 10:00 – 15:00, 2023, GoToMeeting

10 AOB

No items.

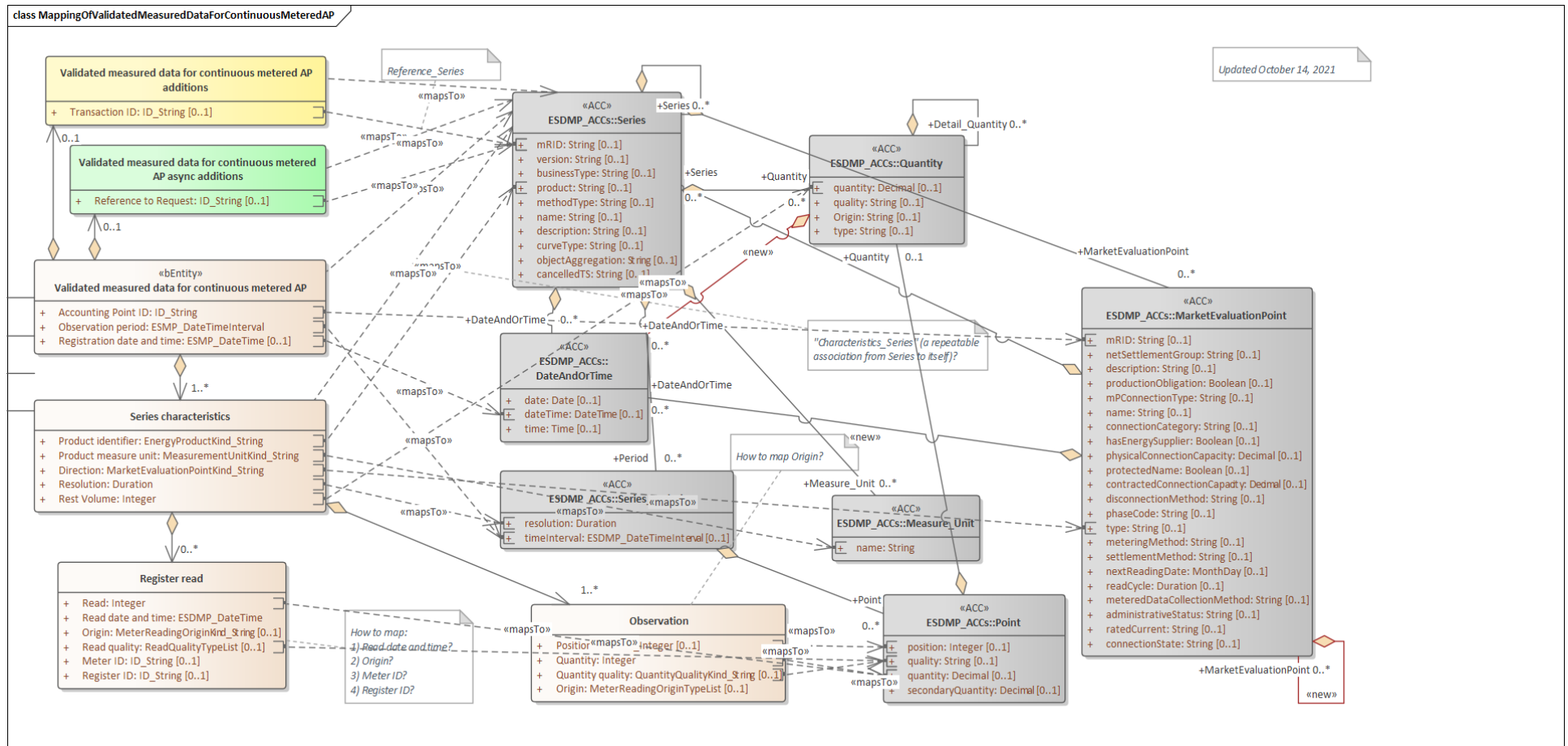
¹ All Face-to-face meeting starts 09:00 the first day and end at 16:00 unless otherwise explicitly stated.

Appendix A ebIX® rules for how to make MRs to WG16

- 1) Artefacts used for MRs to WG16 shall be stored as separate packages in the common cloud EA model.
- 2) Always review existing definitions of attributes, classes etc. that are related to the MR in question and if needed propose updates to these definitions.
- 3) First investigate basic CIM to see if the object we intend to send an MR for already is available there.
If yes, we should make a MR for 62325-351 (ESMP), if not we make a MR for both basic CIM and ESMP.

Appendix B Mapping from ebIX® class diagrams for Validated measured data for continuous metered AP to CIM

The mapping will be reviewed by ETC, while EBG will look into the definitions of classes and attributes to see if we need to update the ebIX® definitions or if we should send maintenance requests to IEC for update of the CIM definitions.



BRS attribute	BRS definition	CIM attribute	CIM definition
<p>«Business entity»</p> <p>Validated measured data for continuous metered AP</p>	The information set sent by a Metered Data Responsible to the Metered Data Administrator when exchanging validated measured data for continuous metered AP	Series	A set of similar physical or conceptual objects defined for the same period or point of time.
Accounting Point ID	The unique identification of the Accounting Point to which the validated measured data are attributed.	MarketEvaluationPoint / mRID	<p>Master resource identifier issued by a model authority. The mRID is unique within an exchange context. Global uniqueness is easily achieved by using a UUID, as specified in RFC 4122, for the mRID. The use of UUID is strongly recommended.</p> <p>For CIMXML data files in RDF syntax conforming to IEC 61970-552, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.</p>
Observation period	The specific period of time the validated measured data have been measured, calculated or estimated for.	Series_Period / timeInterval	The start and end date and time for a given interval.
Registration date and time	The date and time of the validation (and storage in the database) of this set of validated measured data.	DateAndOrTime / dateTime	Date and time as per ISO 8601 YYYY-MM-DDThh:mm:ss.sssZ.
Series characteristics	The characteristics of this set of validated measured data, i.e., the product and flow direction.	Series	A set of similar physical or conceptual objects defined for the same period or point of time.
Product identifier	A code specifying the energy product for the quantities in this set of validated measured data.	Series / product	The type of the product such as Power, energy, reactive power, transport capacity that is the subject of the time series.
Product measure unit	The unit of measure used for the quantities in this set of validated measured data.	Measure_Unit / name	The coded representation of the unit.
Direction	<p>A code specifying the direction of the energy flow that was measured with this validated measured data.</p> <p>A flow from the Accounting Point into the Metering Grid Area is defined as production and a flow from the Metering Grid Area into the Accounting Point is defined as consumption.</p>	MarketEvaluationPoint / type	Specifies if the Market Evaluation Point is an Exchange Point or an Accounting Point.

BRS attribute	BRS definition	CIM attribute	CIM definition
Resolution	<p>The resolution is the time between two observations, leading to the number of observations in this timeseries (calculated from the Observation Period divided by the Resolution).</p> <p>The Observation Period must contain a whole number of observations as derived from the resolution.</p> <p>The resolution is expressed in compliance with ISO 8601 in the following format:</p> <p style="text-align: center;">PnYnMnDTnHnMnS.</p> <p>For example PT15M for 15 minutes resolution.</p>	Series / resolution	The number of units of time that compose an individual step within a period.
Rest Volume	The Rest Volume is used for a volume that cannot be related to the 'normal' measured time series observations, i.e., the difference, for the Observation Period, between the start and end meter read and the aggregated volume from the exchanged time series.	Quantity / quantity	<p>The quantity value.</p> <p>The association role provides the information about what is expressed.</p>
Register read	A read from the register of the Meter linked to the Accounting Point and characteristics of the read. This read is at the basis of the validated measured data in the Observation.	N/A	
Read ²	The value as read from or calculated for the register, for this Read date and time in the Observation period.	Point / quantity	Principal quantity identified for a point.
Read date and time	The timestamp of the moment in time when the value was registered in the Register of the Meter or the value was calculated for.	N/A	
Origin	A code specifying the role of the party that has retrieved or calculated the read.	N/A	
Read quality	The quality of this read, such as estimated, remotely read or physically read.	Point / quality	The quality of the information being provided. This quality may be estimated, not available, as provided, etc.
Meter ID	The unique identification of the Meter linked to the Accounting Point, which contains the register that has been read.	N/A	

² If the Register read is missing, the Meter Reading Origin Code shall be “E28 From Metered Data Responsible” and the Quantity Quality Code shall be “56 Estimated”.

BRS attribute	BRS definition	CIM attribute	CIM definition
Register ID	The unique identification of the Register within the Meter, where this data has been read from or is estimated for.	N/A	
Observation	One validated measured value within a timeseries.	N/A	
Position	The ordinal position of this Observation in this Observation Period for this set of validated measured data.	Point / position	A sequential value representing the relative position within a given time interval.
Quantity	The validated quantity of energy for this Observation.	Point / quantity	Principal quantity identified for a point.
Quantity quality	The quality of this quantity (volume), such as validated (default value, hence not sent), estimated, or temporary.	Point / quality	The quality of the information being provided. This quality may be estimated, not available, as provided, etc.
Origin	A code specifying the role of the party delivering the Quantity.	N/A	
Validated measured data for continuous metered AP additions	Additional information, related to validated measured data, the use of which may be agreed on a national level.	Series	A set of similar physical or conceptual objects defined for the same period or point of time.
Transaction ID	The unique identification of this set of information as given by the Metered Data Responsible.	Series / mRID	<p>Master resource identifier issued by a model authority. The mRID is unique within an exchange context. Global uniqueness is easily achieved by using a UUID, as specified in RFC 4122, for the mRID. The use of UUID is strongly recommended.</p> <p>For CIMXML data files in RDF syntax conforming to IEC 61970-552, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.</p>
Validated measured data for continuous metered AP async additions	Additional information related to validated measured data needed when using asynchronous communication.	Series	A set of similar physical or conceptual objects defined for the same period or point of time.
Reference to request	Information about the request for this set of validated measured data for continuous metered AP which uniquely identifies it.	Series / mRID	<p>Master resource identifier issued by a model authority. The mRID is unique within an exchange context. Global uniqueness is easily achieved by using a UUID, as specified in RFC 4122, for the mRID. The use of UUID is strongly recommended.</p> <p>For CIMXML data files in RDF syntax conforming to IEC 61970-552, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.</p>

class MappingOfValidatedMeasuredDataForContinuousMeteredAP

Target \ Source	1 DateAndOrTime	2 MarketEvaluationPoint	3 Measure_Unit	4 Point	5 Quantity	6 Series	7 Series_Period
1 Observation				Maps To Quant... → quantity Maps To Position → position Maps To Quantity → quantity			
2 Register read				Maps To Read → quantity Maps To Read ... → quantity			
3 Series characteristics		Maps To Direct... → type	Maps To Produ... → name		Maps To Rest V... → quantity	Maps To Produ... → product Maps To →	Maps To Resol... → resolu...
4 Validated measured dat...	Maps To Regist... → dateTi...	Maps To Accou... → mRID				Maps To →	Maps To Obser... → timel...
5 Validated measured dat...						Maps To Trans... → mRID Maps To →	
6 Validated measured dat...						Maps To → Maps To Refer... → mRID	