Minutes EBG meeting	European forum for energy Business Information eXchange
November 22nd, 2023	EBG (ebIX® Business Group)

Date: Monday November 20th, 2023
Time: 14:00 – 15:30
Place: GoToMeeting

Present: Gerrit, EDSN
Jan, Svenska kraftnät
Ove, Edisys

Appendix A: EBG project and survey list
Appendix B: Mapping from ebIX® Validated measured data for continuous metered AP to CIM

Attachments: None

1 Approval of agenda

The agenda was approved with the following additions:

- Where, at the ebIX® web site, shall we publish the document "Consequences of closure of ebIX®", see item 3.1.

2 Approval of minutes from previous meeting

The minutes from previous meeting were approved.

3 Resolve matters related to close down of ebIX®

It was suggested to run short (half hour) ebIX® chair and convenor meeting before the physical ebIX® close down meeting December 6th, among others for:

- Review agenda and PowerPoint session file.
- Review of the new proposal from Maatwerk for 3 years maintenance and support of our website. If not OK, we could ask Maatwerk for an adjusted offer before the meeting.
    - If agreed, how to organise maintenance requests?
- Shall we ask the ebIX® Forum to set aside some money to use next year for:
    - Education the EU DSO Entity in the making of BRSs.
    - Publication of agreed changes to HEMRM 2023-02.
    - If yes to the bullets above, how to organise it?
- Making sure that we have invoices for November available before the ebIX® Forum meeting December 5th.

A PowerPoint session file for the physical ebIX® close down meeting December 6th was reviewed and a few updates were suggested.

Action:

- Ove will send a request for the meeting to the ebIX® chair and convenors.

3.1 Where, at the ebIX® web site, shall we publish the document "Consequences of closure of ebIX®"

The ebIX® web site was briefly reviewed, and it was suggested moving the text from the front-page to the "ebIX® organisation" page. Further, Ove will make a proposal for a front-page text regarding the close down of ebIX® where also the document "Consequences of closure of ebIX®" will be published.

Action:

- Ove will make a proposal for moving the text from the front-page to the "ebIX® organisation" page.
- Ove will also make a proposal for a front-page text regarding the close down of ebIX® incl. the document "Consequences of closure of ebIX®".

4 Review of the change of supplier process from EG1

Action:

- Jan will find the latest document from the EG1 change supplier process for discussion at our next EBG meeting.

5 Review of Appendix A EBG project and survey list

Appendix A EBG project and survey list was reviewed and updated.

6 Mapping from ebIX® Class diagrams to CIM, see Appendix B

At the EBG meeting in September in Maribor, it was agreed to make examples of how the definitions in ESMP could be made more understandable. Hence, a new column is added to the table in Appendix B, i.e. now we have one column for the definition from basic CIM (IEC61968-11, IEC61970 and IEC62325-301) and one column for the definition from ESMP (European Style Market Profile = IEC62to 325-351).

The class diagram for Mapping from ebIX® Validated measured data for continuous metered AP to CIM in Appendix B was reviewed and some remarks related to updates of CIM, after the class diagram was made, were noted.

It was also noted that, according to the ENTSO-E methodology (ENTSO-E Common information model (CIM) European style market profile User guide), "the descriptions of the classes and the attributes are to be checked depending upon the contextualisation", ref.:

> 6.4.2 Description of contextual classes and attributes
>
> In the same manner, ***the descriptions of the classes and the attributes are to be checked depending upon the contextualisation***. Usually, the description is sufficient, and it is the description of the association that will complement the specific use of the class and or attribute in the resulting assembly model.

I.e. when making CIM based documents from the ebIX® BRSs, the definitions from the BRS should replace the definitions from ESMP in the Assembly models".

7 Meeting schedule

GoToMeetings:

- Every Monday until December 18th, 2023.

Physical meeting:

- Wednesday December 13th and Thursday December 14th, in Oslo.

8 AOB

No items.

Appendix A EBG project and survey list

A.1 Potential projects

#	Project description	Priority	Start
A)	It is assumed that the EC will decide to use IEC basic CIM as the reference Information Model, hence we should bring our definitions in line with IEC CIM. This can be done by changing our definitions, or by submitting maintenance requests to IEC TC57/wg16 (eventually to be forwarded by wg16 to wg14).	Medium	***20230417:*** • If time item ***20230914:*** • See also row E) below **20231120:** • In progress
B)	Investigate if exchange of measured data from "ebIX BRS for Quantification and settlement of flexibility services" should be moved to a separate "Measure for quantification BRS".	This is a to-remember item	***20230417:*** • TBD ***20230914:*** • In progress **20231120:** • Done
C)	Verify extensions to the definitions of roles with the group harmonising the electricity and gas markets role models before adding the extension to the role definitions in a BRS to include gas.	Continuous	***20230417:*** • When updating role definitions in BRSs **20231120:** • Done
D)	Review of BRS for Settle for Reconciliation, ref. minutes from EBG meeting October 10th, 2022.	Low	***20230417:*** • At least to consider during handover to EU DSO Entity. **20231120*:*** • We will keep it as is
E)	Mapping from ebIX® Class diagrams to CIM, see Appendix B	If time item	***20230821:*** • For review at next physical EBG meeting in September 2023 • See also A) above **20231120:** • In progress in ETC

A.2 Approved (and running) projects

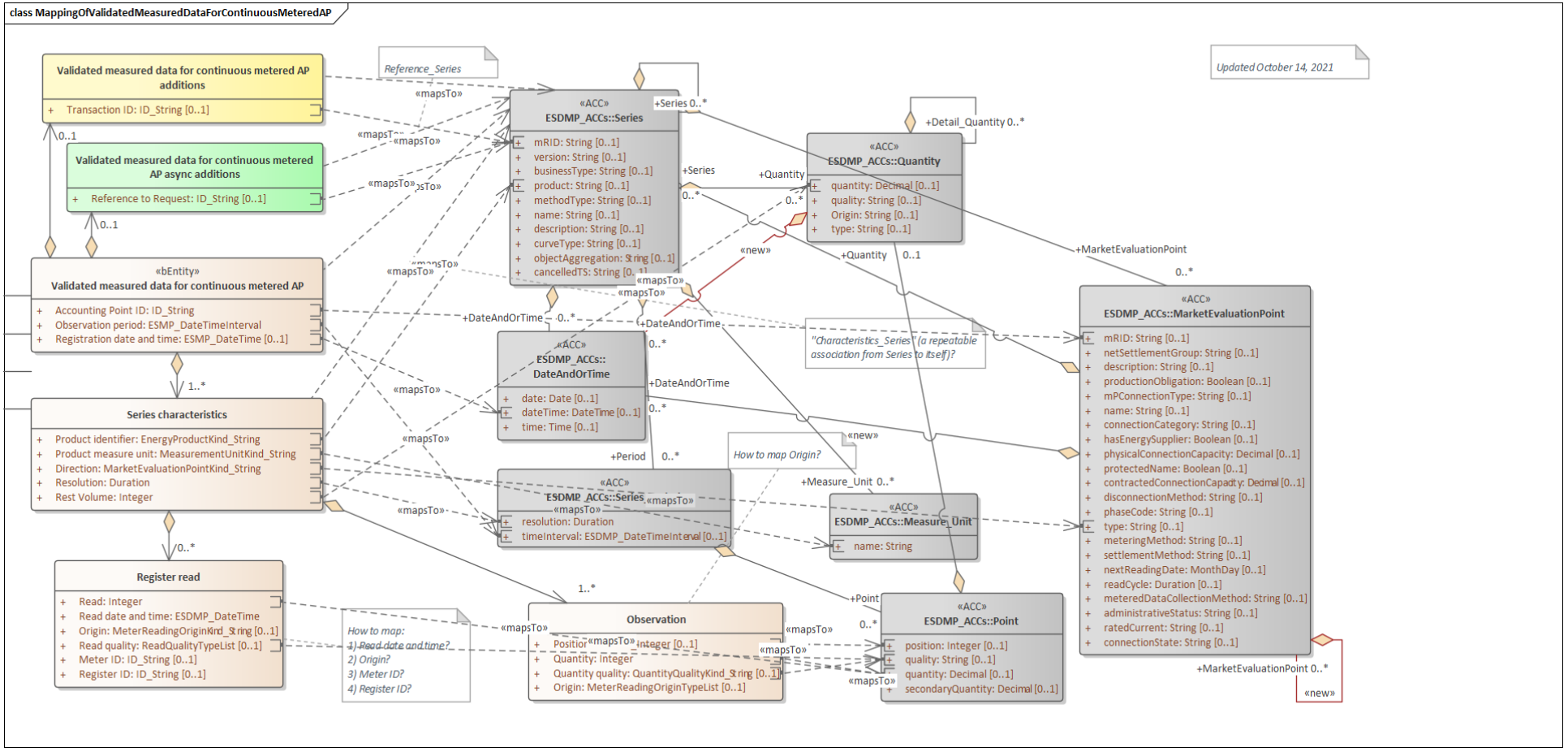
#	Project	Members	Status	Start	End
A)	Common energy market area project	**EBG:** Bartosz, Boštjan (?), Gerrit, Kees and Ove. **"External":** Douglas (ENTSOG), Jon-Egil (ENTSO-E/CIM EG) and ? from EU DSO Entity	Too late for ebIX® to join.	Dependent on ENTSO-E	?

A.3 Surveys

#	Survey	Status
A)	None.	

Appendix B Mapping from ebIX® 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.



Remark:

- The Direction attribute in Series Characteristics in the BRS, should be mapped to flowCategory in the AccountingPoint class in CIM.
- We should use the CIM AccountingPoint class instead of the MarketEvaluationPoint class.

BRS attribute	BRS definition	CIM attribute	Basic CIM definition	ESMP definition
«Business entity» Validated measured data for continuous metered AP	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.	A set of similar physical or conceptual objects defined for the same period or point of time. **EBG proposal 20231120:** One or more observations for a period of time or a point in time.
Accounting Point ID	The unique identification of the Accounting Point to which the validated measured data are attributed.	MarketEvaluationPoint / mRID	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. 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.	A unique identification of the measurement point. In the ESMP context, the "model authority" is defined as an authorized issuing office that provides an agreed identification coding scheme for market participant, domain, measurement point, resources (generator, lines, substations, etc.) identification. Master resource identifier issued by a model authority. The mRID is globally unique within an exchange context. Global uniqueness is easily achieved by using a UUID for the mRID. It is strongly recommended to do this. For CIMXML data files in RDF syntax, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.
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.	The start and end time of the period.
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.	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.	A set of similar physical or conceptual objects defined for the same period or point of time.

BRS attribute	BRS definition	CIM attribute	Basic CIM definition	ESMP definition
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.	The identification of the nature of an energy product such as power, energy, reactive power, etc.
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.	The identification of the formal code for a measurement unit (UN/ECE Recommendation 20).
Direction	A code specifying the direction of the energy flow that was measured with this validated measured data. 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.	?		
Resolution	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). The Observation Period must contain a whole number of observations as derived from the resolution. The resolution is expressed in compliance with ISO 8601 in the following format: PnYnMnDTnHnMnS. For example **PT15M** for 15 minutes resolution.	Series / resolution	The number of units of time that compose an individual step within a period.	The definition of the number of units of time that compose an individual step within a period.

BRS attribute	BRS definition	CIM attribute	Basic CIM definition	ESMP definition
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	The quantity value. The association role provides the information about what is expressed.	The quantity value. The association role provides the information about what is expressed.
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[1]	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.	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.	The quality of the information being provided. This quality may be estimated, not available, as provided, etc.

[1] 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	Basic CIM definition	ESMP definition
Meter ID	The unique identification of the Meter linked to the Accounting Point, which contains the register that has been read.	N/A		
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.	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.	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.	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.	A set of similar physical or conceptual objects defined for the same period or point of time.

BRS attribute	BRS definition	CIM attribute	Basic CIM definition	ESMP definition
Transaction ID	The unique identification of this set of information as given by the Metered Data Responsible.	Series / mRID	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. 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.	A unique identification of the measurement point. In the ESMP context, the "model authority" is defined as an authorized issuing office that provides an agreed identification coding scheme for market participant, domain, measurement point, resources (generator, lines, substations, etc.) identification. Master resource identifier issued by a model authority. The mRID is globally unique within an exchange context. Global uniqueness is easily achieved by using a UUID for the mRID. It is strongly recommended to do this. For CIMXML data files in RDF syntax, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.
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.	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	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. 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.	A unique identification of the measurement point. In the ESMP context, the "model authority" is defined as an authorized issuing office that provides an agreed identification coding scheme for market participant, domain, measurement point, resources (generator, lines, substations, etc.) identification. Master resource identifier issued by a model authority. The mRID is globally unique within an exchange context. Global uniqueness is easily achieved by using a UUID for the mRID. It is strongly recommended to do this. For CIMXML data files in RDF syntax, the mRID is mapped to rdf:ID or rdf:about attributes that identify CIM object elements.

class MappingOfValidatedMeasuredDataForContinuousMeteredAP

Source \ Target	1 DateAndOrTime	2 MarketEvaluationPoint	3 Measure_Unit	4 Point	5 Quantity	6 Series	7 Series_Period
1 Observation				Maps To Quant... → quality Maps To Position → position Maps To Quantity → quantity			
2 Register read				Maps To Read → quantity Maps To Read ... → quality			
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	