Date: Monday December 4th, 2023
Time: 14:00 – 15:30
Place: GoToMeeting

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

Attachments: None

1   Approval of agenda

The agenda was approved.

2   Approval of minutes from previous meeting

The minutes from previous meeting were approved.

3   Resolve matters related to close down of ebIX®

Ove had as action sent the letters to EFET, ENTSO-E and the DSO Entity to Vlatka for review and forwarding to the respective bodies.

Ove had updated the ebIX® website's home page and ebIX® organisation page.

Gerrit had made an Excel sheet with "ebIX® - budget and expenditures till December 2023 indication" for presentation at the ebIX® Forum meeting on Wednesday. The budget was reviewed, and a few updates were done.

Ove had as action drafted letters to IEC/TC57, Eurelectric, UN/CEFACT and CEDEC for review at this EBG meeting. The letters were reviewed, and some editorial updates were done.

Action from ebIX® chair and convenor meeting November 29th:

- EBG is asked to make a budget for handover of the ebIX® deliverables to the DSO Entity/JWG and present it for the forum.

   Status:
   o   Added during the meeting.

- Ove will add a slide with bullet points for item "5 Status for handover of ebIX® work to the DSO Entity and/or JWG".

   Status:
   o   Added before the meeting.

- EBG will update the slide for item "7 Continuation of the ebIX® web site after ebIX® close down".

   Status:
   o   Updated during the meeting.

It was agreed to remove the following blocks from the ebIX® Documents page:

- XML schema's for information exchange as specified in ebIX UML Model for the European Energy Market -

Latest version:	XML schema's 2014.A
Previous versions:	XML schema's 2011.A XML schema's 2010.B XML schema's 2010.A

- ebIX Transformation Tool for the generation of XML schema's -

ebIX XML schema's are derived from the ebIX UML Model for the European Energy Market by means of the ebIX Transformation Tool. This tool is available for ebIX members.	
Related documents:	Manual for ebIX Transformation Tool 0.2.-

And to remove the "Contact webpage":

Contact

The ebIX organisation can be contacted by sending an email to:

- The ebIX® chair: chair@ebix.org
- The ebIX® secretary: secretary@ebix.org

Ove has started on a handover document to the DSO Entity/JWG. A review will be added to our next EBG meeting.

Action:
- Ove will send the letters to IEC/TC57, Eurelectric, UN/CEFACT and CEDEC to Vlatka for forwarding to the bodies.
- Ove will remove the ebIX® xml schemas, Transformation Tool and contact webpage from the ebIX® website.

To remember items:
1) Ove will make zip files containing the ebIX® documents at the web site in word format.

4   Review of the change of supplier process from EG1

The item was postponed.

5   Review of Appendix A **EBG project and survey list** (if needed)

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

The item was postponed.

7   Meeting schedule

GoToMeetings:
- Every Monday until December 18th, 2023.

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

8   AOB

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 D) below
B)	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
C)	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. *20230914:* • We will keep it as is
D)	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

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	Will probably be 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.
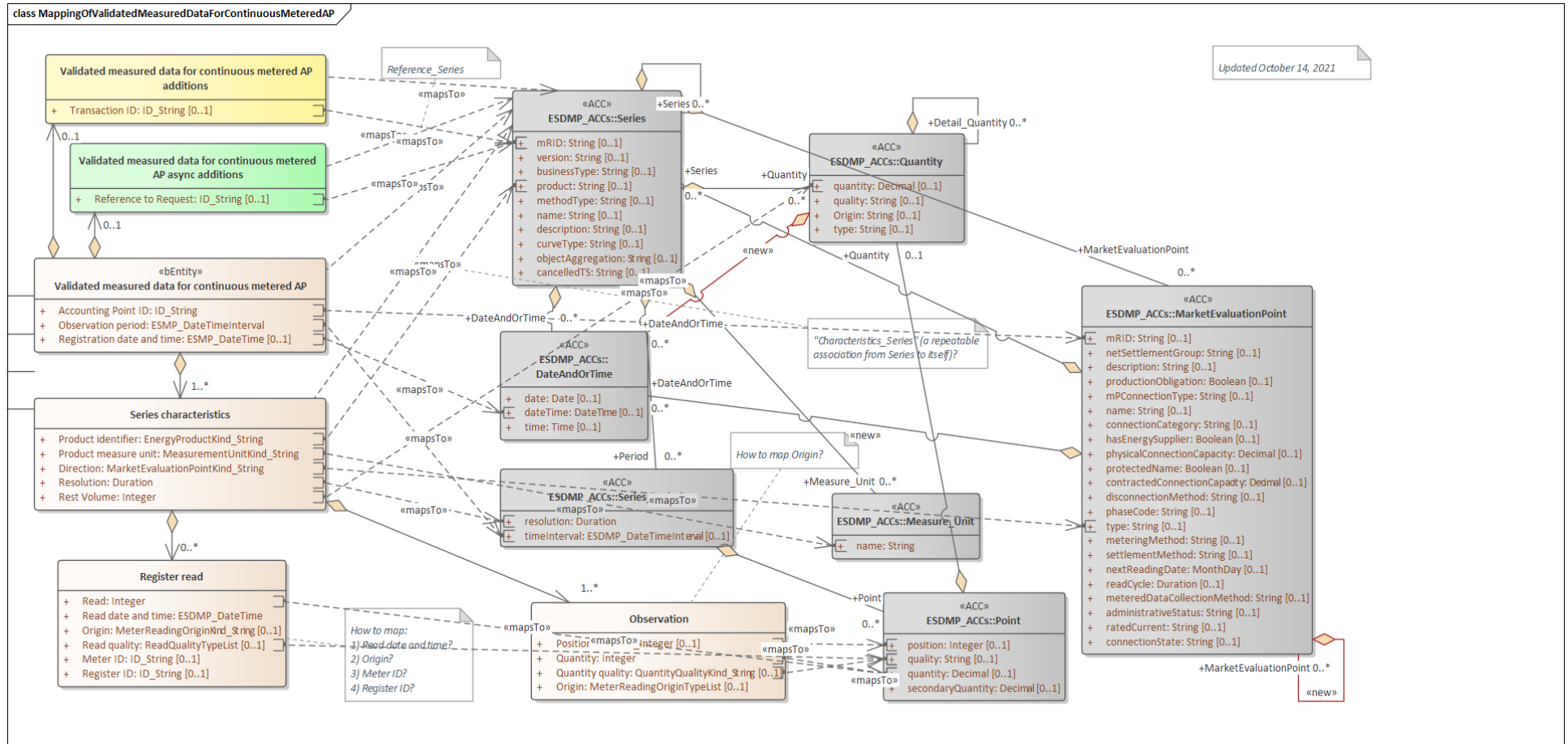
Remark:

- 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.	MarketEvaluation Point / 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.

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[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 / Position → position / Quantity → quantity			
2 Register read				Maps To: Read → quantity / 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	