Minutes	European forum for energy Business Information eXchange
October 16th, 2023	EBG (ebIX® Business Group)

Date: Monday October 16th, 2023
Time: 14:00 – 15:30
Place: GoToMeeting

Present: Gerrit, EDSN
Jan, Svenska kraftnät
Joachim, Westnetz
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.

2 Approval of minutes from previous meeting

The minutes from previous meeting were approved.

3 Resolve matters related to close down of ebIX®

The following EBG members, earlier and present, have been invited to the Forum dinner:

#	Name	Company	ebIX® group	ebIX® Forum	Dinner
1.	Andrzej Zadworny	PSE (PL)	EBG member	No	No
2.	Boštjan Topolovec	SI, Section IPET (SI)	EBG member	No	No
3.	Eva Lepperhoff	Westnetz GmbH (DE)	EBG earlier convenor	No	No
4.	Gerrit Fokkema	EDSN (NL)	ebIX® EBG chair	Yes	Yes
5.	Grazyna Handerek	PTPiREE (PL)	ebIX® Forum member		
6.	Hugo de Kaiser	(BE)	EBG earlier convenor		
7.	Jan Owe	Svenska kraftnät (SE)	ebIX® Forum member	Yes	Yes
8.	Joachim Schlegel	Westnetz GmbH (DE)	EBG member	No	Yes
9.	Kees Sparreboom	Sparconsult (NL)	ebIX® Forum consultant	Yes	Yes
10.	Lukas Obernosterer	APG (AT)	ebIX® Forum observer	No	No
11.	Ove Nesvik	Edisys (NO)	ebIX® Forum secretary	Yes	Yes
12.	Stefan De Schouwer	Atrias (BE)	ebIX® Forum member		
13.	Teemu Hiekka	Fingrid (FI)	ebIX® Forum member		

To remember item:

- Ove will remove the paragraph “Comments to the ebIX® model”:

  These Business Requirements, as part of the ebIX® Model for the European Energy Market (see [4]), are made in a project with experts from ebIX® members and members of the ebIX® Business

Group (EBG), see www.ebix.org. For comments to the document ***please contact the secretary@ebix.org****.*

From all documents at the ebIX® web site.

- Ove will remove the text "*The Business Information Model and the syntax specific structures are specified by the "ebIX® Technical Committee" (ETC)*" from all BRSs when updating for other reasons.

4 Splitting of the ebIX® BRS for Quantification and settlement of flexibility services

Ove had as homework drafted UseCase descriptions for "Measure and quantify flexibility services" and "Measure flexibility services" in BRS for Measure and quantification of flexibility services. Ove had also merged the UseCase descriptions in chapter 2.1. and 2.2. and remove the UseCase diagram in chapter 2, in the BRS for Settle flexibility services.

Finally, Gerrit had reviewed and comments on the homework from Ove.

The BRSs were reviewed and updated.

Action:

- Ove will send the BRSs to ebIX® Forum for four weeks of circulation for comments before publication.

Item closed.

5 Review of the change of supplier process from EG1

The item was postponed.

6 Review of Appendix A EBG project and survey list

The item was postponed.

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

The item was postponed.

8 Meeting schedule

GoToMeetings:

- Every Monday until December 18th, 2023.

Physical meeting:

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

9 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
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
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
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. ***20230914:*** • 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

A.2 Approved (and running) projects

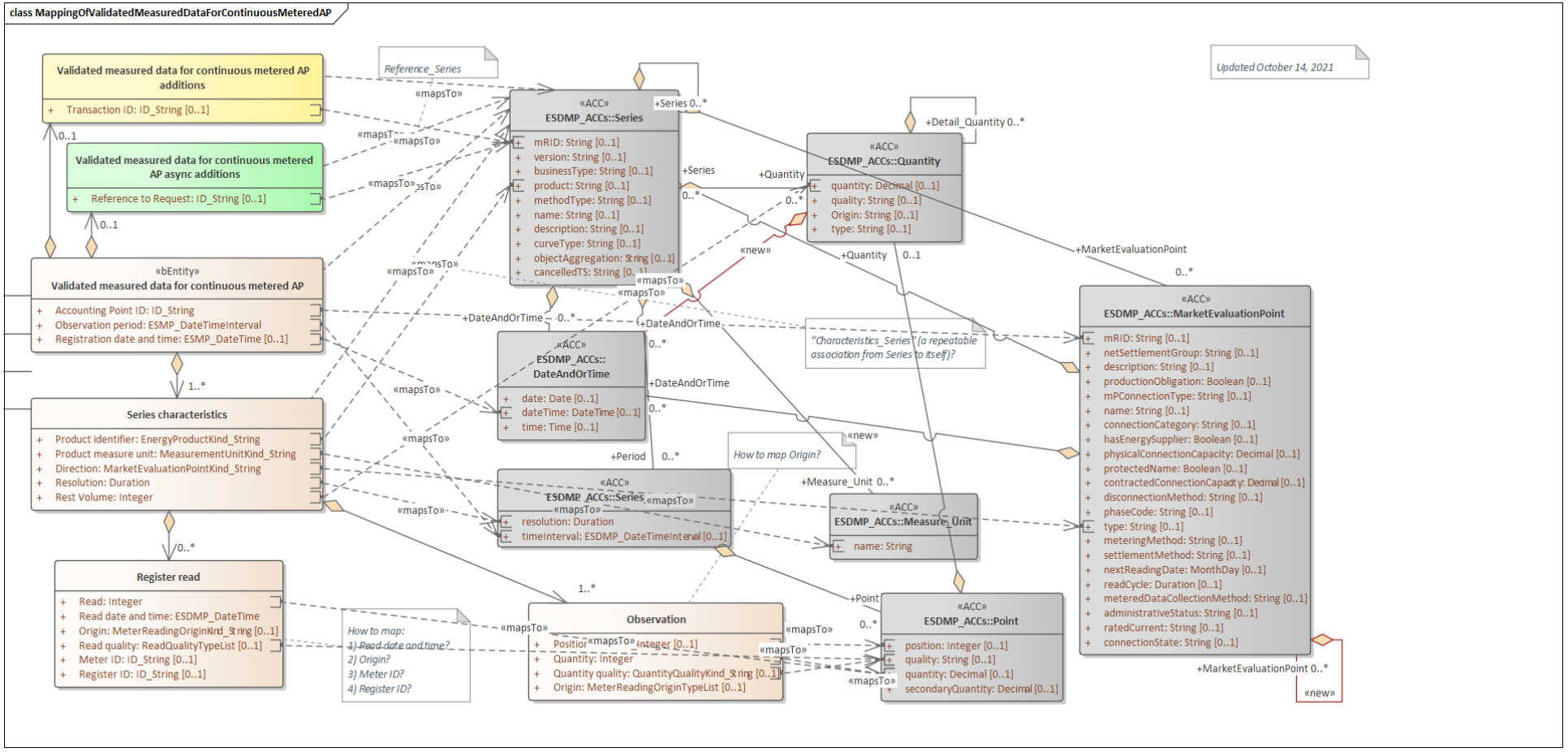
#	Project	Members	Status	Start	End
A)	Common energy market area project	**EBG:** Bartosz, Boštjan (?), Gerrit, Kees and Ove. **"External":** Douglas (ENTSOG), Jon-Egil (ENTSO-E/CIM EG) and ? from EU DSO Entity	Will probably be too late for ebIX® to join.	Dependent on ENTSO-E	?

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.



BRS attribute	BRS definition	CIM attribute	CIM 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.
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.
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	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.	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	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.
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.
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.
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	

[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	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	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.
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	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.

class MappingOfValidatedMeasuredDataForContinuousMeteredAP