Date: Monday February 6th, 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® class diagrams for Validated measured data for continuous metered AP to CIM

Attachments: None

1   Approval of agenda

The agenda was approved with the following additions:

- Review of comments to ebIX® comments by HG at meeting January 31st, see item 11.1 under AOB.
- Review the EBG project and survey list (Appendix A), see item 11.2 under AOB.

2   Approval of minutes from previous meeting

The minutes from previous meeting were approved after correction of some spelling errors found by Jan.

3   Finalise review of HEMRM definitions

Continued action:
- Ove will make a draft MR for addition of Grid Connection to the HEMRM.
  - Suggestion for the definition:
    A point on the grid from where, by physically connecting to its installation(s), energy can flow into or from one or more Metering Points

4   Request for new MRs from NMEG

The item was postpned.

5   Update of BRSs – "to remember item"

Merged with item 6 and 7 – to be handled at next meeting.

6 Sub APs and production-/consumption APs

Merged with item 5 and 7 – to be handled at next meeting.

7 What attributes to send in a confirmation

Merged with item 5 and 6 – to be handled at next meeting.

8 Review of CIM definitions for classes and attributes based on mapping from ebIX® class diagrams for Validated measured data for continuous metered AP to CIM "to remember item"

See Appendix B.

We will suggest discussing how to deal with this topic at the ETC meeting next week.

9 Review of ebIX domain model (low priority item)

Continued action:

- Ove will find the latest ebIX® Domain Model and merge the text with the Domain model description in the flex overview, with a special focus on settlement and billing - as input for a review session.

10 Meeting schedule

GoToMeetings:

- Every Monday until (including) July 3rd, 2023, except for holydays.

Physical meeting:

- Tuesday April 25th and Wednesday April 26th at Svenska kraftnäts offices in Sundbyberg (Stockholm).

11 AOB

11.1 Review of comments to ebIX® comments by HG at meeting January 31st

The item was postponed.

11.2 Review the EBG project and survey list (Appendix A)

The list was reviewed and updated.

Appendix A   EBG project and survey list

A.1   Potential projects

#	Project description	Priority	Start
A)	Review what attributes to send in a confirmation (e.g. all from the request, only approve/disapprove or some core attributes, such as AP)	High	*20220206:* • Started February 2023
B)	Review and propose update to the HEMRM, based on new procedures from ETC and EBG, ref minutes from ebIX® Forum meeting March 24th, 2020, including: • Update definition of Accounting Point in the HRM based on the flex project. • Make a preproposal for update of the definition of the «Harmonised Role» Resource Provider. Among others we think it is the BRP that sends schedules and not the Resource Provider and we think the term "manages" could be clarified.	High	*20220206:* • Finalised at EBG meeting January 30th
C)	Efficient data alignment, including the possibility to request historical and/or future master data. See "very general" data act from EU: https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/13045-Data-Act-amended-rules-on-the-legal-protection-of-databases_en. EBG should start with aa survey for the need of such a project.	To be decided by ebIX® Forum	*20220206:* We will ask ebIX® Forum for participants in a new project.
D)	Discuss differentiation of data sets per Entitled Role when aligning master data (e.g. when referencing notification of AP master data in a BRS) based on GDPR	High	*20220206:* • We will ask ebIX® Forum for participants in a new project.
E)	Making a BRS for alignment of Exchange Point characteristics	High	Hopefully a part of the common energy market area project
F)	Making an introduction to the ebIX® BRSs, including an overview of the BRSs and a short description.	In finalising RtR	*20220206:* • Will be put on next EBG agenda
G)	Review of MR NMEG 2021/3 – Addition of a Reporting resolution and Reporting Interval to the AP Administrative Characteristics class. in Alignment of AP characteristics BRS	Medium	*20220206:* • Finalised autumn 2022
H)	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	*20220206:* • Is on the EBG/ETC agenda

#	Project description	Priority	Start
I)	Update of Gas Role Model with addition of Aggregated Reception Station, Calorific Value Area and Temperature Area for gas.	Low	When the Gas Role Model starts adding domains.
J)	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 of flex services BRS".	This is a to-remember item	*20220206:* • TBD
K)	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	When updating role definitions in BRSs
L)	Review of BRS for Settle for Reconciliation, ref. minutes from EBG meeting October 10th, 2022.	Low	Autumn 2024

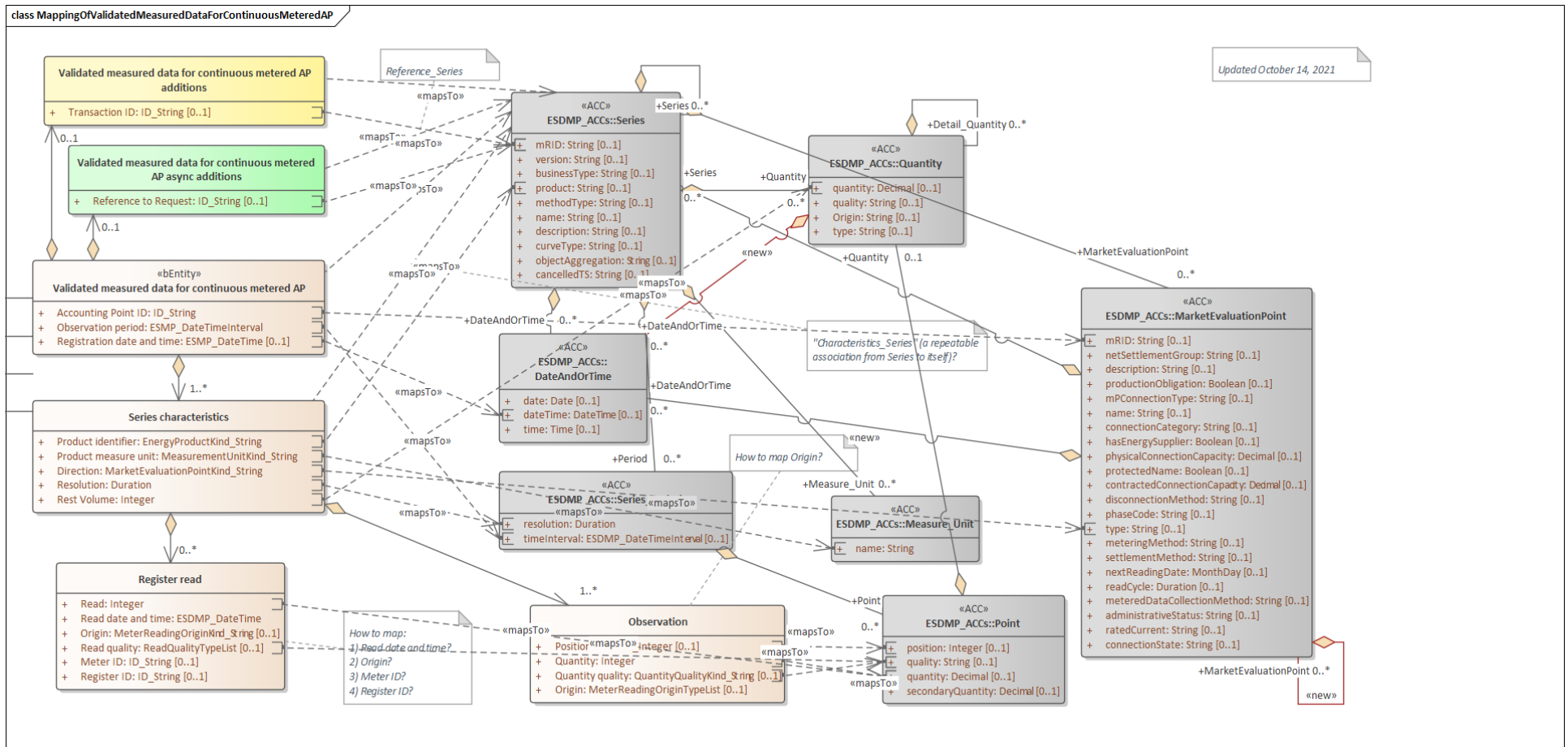## A.2 Approved (and running) projects

#	Project	Members	Status	Start	End
A)	RtR, Role-to-Role (hub)	All EBG	Start October 2018	Q4 2018	*20220206:* • Ended Q4 2022
B)	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	Hopefully start October 2022	February 2023	?

A.3 Surveys

#	Survey	Status
A)	Datahub	20220609: Third version sent to ebIX® members for update 20230206: Finalised

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
«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	

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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	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

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