Minutes EBG meeting	European forum for energy Business Information eXchange
October 25th, 2021	**EBG** (ebIX® Business Group)

Date: Monday, October 18th, 2021
Time: 14:00 – 15:30
Place: GoToMeeting

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

Appendix A: Status for BRS review
Appendix B: EBG project and survey list
Appendix C: Mapping from ebIX® class diagrams for Validated measured data for continuous metered AP to CIM

Attachments: ebIX BRS for Validated measured data - Draft for v1r0A 20210831.docx
Project plan - ebIX and CIM EG Area project v0r3 20210831.docx

1 Approval of agenda

The agenda was approved with the following additions:

- Procedures for how to align IEC MRs between EBG and ETC, see item 10.1 under AOB.

2 Approval of minutes from previous meetings (September 27th, October 4th and October 11th)

The minutes were from previous meetings (September 27th, October 4th and October 11th) were approved without any comments.

3 How to get participants in the meetings

Boštjan informed that there is a lot of extra work in Slovenia because of the raising energy prices, which also is the case for other countries.

Jan suggested that we could try finding a better day and time for having the EBG meetings.

Gerrit will bring up the question during the ebIX® Forum meeting on Wednesday.

4 Final review of BRS for Validated measured data

The item was postponed.

5 Action item related to gas areas

The following question has been asked to EBG: "Is the Aggregated Reception Station, Calorific Value Area and/or Temperature Zone still used?" – with the following answers:

Answer from Sweden:

- The Calorific Value Area is used. Aggregated Reception Station, Temperature Zone etc. are not used.

Answer from Netherlands:

- An entity like Aggregated Reception Station is used but called Metering Grid Area.
- One Temperature Zone is used (may be used in the future)
- Calorific Value Area is not used.

Answer from Belgium:

- Aggregated Reception Station.
- The Calorific Value Area is being phased out.
- Temperature Zone etc. are not used.

Answer from Germany:

1) Aggregated Reception Station:

   In Germany not in use. Our gas experts see the closest analogy here to a network interconnection point, as a connection point/feeding point between networks of the same gas quality.

2) Calorific Value Area:

   In Germany in use. (Network section with one or more entry points in which all allocated exit points are subject to the same billing calorific value)

3) Temperature Zone:
   Gerrit's comment is to be supported, this has nothing to do with equal pressure.

   Updated during meeting June 7th:

   A set of Metering Point that get assigned the same temperature, so the same temperature correction is used.

   Overall, our experts find the definition in the document (ebIX HG MR 2020-01-Gas areas) "dangerous". It must be made clearer what the focus is here. If, for example, the focus is on gas quality and gas invoicing: rather temperature station: This is about the allocation of representative temperature measuring stations to consuming market locations. If e.g. focus on balancing: Climate zone or station, relevant when using load profiles.

Conclusion:

- Eiter Aggregated Reception Station, Calorific Value Area or Metering Grid Area are used in the countries that has answered. In addition the Netherlands (and probably most other countries as well) has one Temperature Zone, but more may be used in the future.
- We will add Aggregated Reception Station and Calorific Value Area to BRSs handling gas areas - in addition to the MGA (mainly used in the electricity sector). This conclusion will be added the "Memo - ebIX (EBG) update principles for BRSs".

Action:

- Ove will make a memo and published it at www.ebix.org.

Item closed.

6 Finalise addition of processes for Calorific Value in version 3.1 of the BRS Measure for Billing

The BRS was reviewed and among others with the following changes:

- The term "negative response" will be changed to "rejection" in all measure BRSs, to be in line with the structure BRSs.
- The UseCase Establish calorific values will be made red (not elaborated) and the related activity diagram will be removed.
- Entitled Party for Calorific Values was shown in the UseCase for "Request established calorific value", i.e. Billing Calculator, Energy Supplier, Grid Company and Interested Party.
- The Interested Party is a new role added to the BRS (Any party interested in established calorific values).
- The possible measurement unites for Established Calorific Value was updated.
- Product Measure Unit was renamed to Measure Unit, among others because the Product is not used in this BRS.

At the next meeting we should discuss the "to remember item" from Appendix A/2, i.e. "To remember: Investigate if services, such as flex-services should be added to the BRS. If so, we need to add a Resource ID to the class diagram(s) and extend the Basic assumption chapter".

Action:

- Ove will clean up the BRS and send it to EBG before next meeting.

7 Review of BRS for Measure for Labeling / Measure for renewable energy certificates

Gerrit and Ove had cleaned up the recast of the BRS, including renaming it to Measure for renewable energy certificates, and distributed it to EBG.

However, due to lack of time the review of the BRS was postponed.

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

Ove had added a table with ebIX® and CIM definitions, see Appendix C.

9 Meeting schedule

Corona GoToMeetings:

- Every Monday from 14:00 to 15:30, now scheduled until December 20th, 2021, except for holydays.

Normal scheduled face-to-face meetings:

- No face-to-face meeting planned. However, the next physical meeting is expected to be at:

  PSE S.A.
  Warszawska 165 street
  05-520 Konstancin-Jeziorna
  Poland

10 AOB

10.1 Procedures for how to align IEC MRs between EBG and ETC

At the ETC meeting Wednesday 29th, ETC agreed to the latest proposal from EBG for procedures for how to align IEC MRs between EBG and ETC. However, when presented to EBG, a few clarifications were proposed. The proposed clarifications from EBG were agreed in ETC, but once again with changes: a new first bullet point:

- EBG is responsible for the functional business domain and comes up with proposals for changes to the functional business level in CIM, while ETC is responsible for technical QA of the proposed additions/updates to CIM from EBG and for communicating agreed additions/updates to IEC.

  ~~EBG is responsible for business requirements (BRSs) and ETC is responsible for communication with IEC.~~

- Every time a new BRS is published, EBG should see if there are new attributes, classes, associations or similar and report these to ETC, who analyses if these are candidates for updates of CIM – and if so, forward these as MRs to IEC.
- If ebIX® (ETC) gets options from IEC on how to update CIM, based on an ebIX® MR, the option(s) should be presented to EBG for commenting.
- After relevant updates in CIM, EBG should be informed, to see if definitions etc. should be updated in the ebIX® BRSs.

Conclusion:

- The new bullet point was proposed changed (see above – Will be sent to ETC for final (?) approval.

Item closed.

Appendix A Status for BRS review

Structure BRSs			
#	**BRS**	**Status**	**Comment**
1.	Administer Customer Consent	Published at www.ebix.org	Finished
2.	Alignment of Accounting Point characteristics	Published at www.ebix.org	Finished **To remember:** Review of MR NMEG 2021/2 – Addition of a **Supply Start Date** to the AP Administrative Characteristics class, **To remember:** Review of MR NMEG 2021/3 – Addition of a **Reporting resolution** and **Reporting Interval** to the AP Administrative Characteristics class. **To remember (20210913):** Sub Accounting Points have been introduced in the BRS for Prepare and aggregate Resources, hence EBG should introduce references to parent and child APs, or another way of handling Sub Accounting Points, in the BRS for Alignment of AP characteristics BRS (parent and child APs are for instance used in Denmark)? Sub Accounting Points.
3.	Alignment of Area Characteristics	Published at www.ebix.org	
4.	Alignment of characteristics for a Customer linked to an AP	Published at www.ebix.org	Finished
5.	Alignment of Metering Configuration Characteristics	Published at www.ebix.org	Finished
6.	Bulk change of BRP	Published at www.ebix.org	Finished
7.	Bulk change of Shipper	Published at www.ebix.org	Finished
8.	Change of BRP	Published at www.ebix.org	Finished
9.	Change of Metered Data Responsible	Published at www.ebix.org	Finished
10.	Change of Shipper	Published at www.ebix.org	Finished
11.	Change of supplier	Published at www.ebix.org	Finished
12.	Combined grid and supply billing	Published at www.ebix.org	Finished

Structure BRSs			
#	**BRS**	**Status**	**Comment**
13.	Consented (earlier Upfront) request for Metering Point Characteristics	Published at www.ebix.org	Finished
14.	Customer move	Published at www.ebix.org	Finished. **To remember (20210913):** A Flexibility Register Administrator has been introduced in the BRS for Quantify and settle flexibility services, hence the EBG should introduce the Flexibility Register Administrator to the BRS for Customer Move.
15.	End of Metered Data Responsible	Published at www.ebix.org	Finished
16.	End of supply	Published at www.ebix.org	Finished
17.	Manage Accounting Points	Published at www.ebix.org	Finished
18.	Rearrange MPs between grids	Published at www.ebix.org	Finished

Measure BRSs			
#	**BRS**	**Status**	**Comment**
1.	BRS for Measure Calorific Value	To be reviewed	**20210705:** • Proposed added as a sub UseCase in BRS for Billing.
2.	BRS for Measure for Billing	**20210907:** • Version 3.0.A is published	**20210920:** • To remember: Investigate if services, such as flex-services should be added to the BRS. If so, we need to add a Resource ID to the class diagram(s) and extend the Basic assumption chapter.
3.	BRS Validated measured data	**20210315:** • Final review by EBG (14 days) before sent to ebIX® Forum for approval.	

Measure BRSs			
#	**BRS**	**Status**	**Comment**
4.	BRS for Measure for Collected Data	**20200402:** • Published at www.ebix.org.	Finished. The BRS may be used as a template for how the Measure BRS may look like. **20200608:** • "Collected Data" should be renamed to "Collected ***Measured*** Data"
5.	BRS for Measure for Determine Meter Read	To be reviewed	**20210125:** • Investigate the need for addition of MDR and MGA in the "root class", ref Dutch requirements.
6.	BRS for Measure for Imbalance Settlement	To be reviewed	**20200615:** • Include handling of MR "NMEG 2020-01". **20210125:** • Investigate the need for addition of MDR and MGA in the "root class", ref Dutch requirements.
7.	BRS for measure for renewable energy certificates	• Review started at GoToMeeting February 17th;	**20210125:** • Investigate the need for addition of MDR and MGA in the "root class", ref Dutch requirements. **20211011:** • Renamed from "BRS for Measure for Labeling"
8.	BRS for Measure for Reconciliation	To be reviewed	**20210125:** • Investigate the need for addition of MDR and MGA in the "root class", ref Dutch requirements.
9.	BRS for Settle for Reconciliation	To be reviewed	**20210125:** • Investigate the need for addition of MDR and MGA in the "root class", ref Dutch requirements.

Appendix B EBG project and survey list

B.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)	First possible face-to-face meeting	First possible face-to-face meeting
B)	Review and propose update to the HRM, based on new procedures from ETC and EBG, ref minutes from ebIX® Forum meeting March 24th, 2020.	After review of BRSs	TBD
C)	Efficient data alignment, including the possibility to request historical and/or future master data.	EBG must do a survey for the need of such a project	Not prioritised
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)	EBG task – will be linked to "C), Efficient data alignment" task and GDPR	To be started Q1 2021
E)	Making a BRS for alignment of Exchange Point characteristics	TBD	TBD
F)	1) Making MRs to the HG for definition for and relations between Gateway, Gateway Operator and Gateway Administrator 2) Making a BRS for Gateway related stuff.	Awaiting decision in Germany or elsewhere	TBD
G)	Making an introduction to the ebIX® BRSs, including an overview of the BRSs and a short description.	In finalising RtR	TBD
H)	Review of MR NMEG 2021/2 (to ebIX®) – Addition of a **Supply Start Date** to the AP Administrative Characteristics class in Alignment of AP characteristics BRS	TBD	TBD
I)	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	TBD	TBD
J)	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).	TBD	A first mapping from an ebIX® class diagram to CIM will be done during summer 2021.
K)	Update of Gas Role Model with addition of Aggregated Reception Station, Calorific Value Area and Temperature Area for gas.	TBD	When the Gas Role Model starts adding domains.
L)	Update definition of Accounting Point in the HRM.	TBD	When the flex project has concluded.

#	Project description	Priority	Start
M)	Making an ebIX® BRS for Exchange Point Characteristics	To be started after finalising review of measure BRSs.	Q1/2022 (?)
N)	Investigate if services, such as flex-services should be added to BRS for Measure for billing. If so, we need to add a Resource ID to the class diagram(s) and extend the Basic assumption chapter.	This is a to-remember item	When the flex project is finalised

B.2 Approved (and running) projects

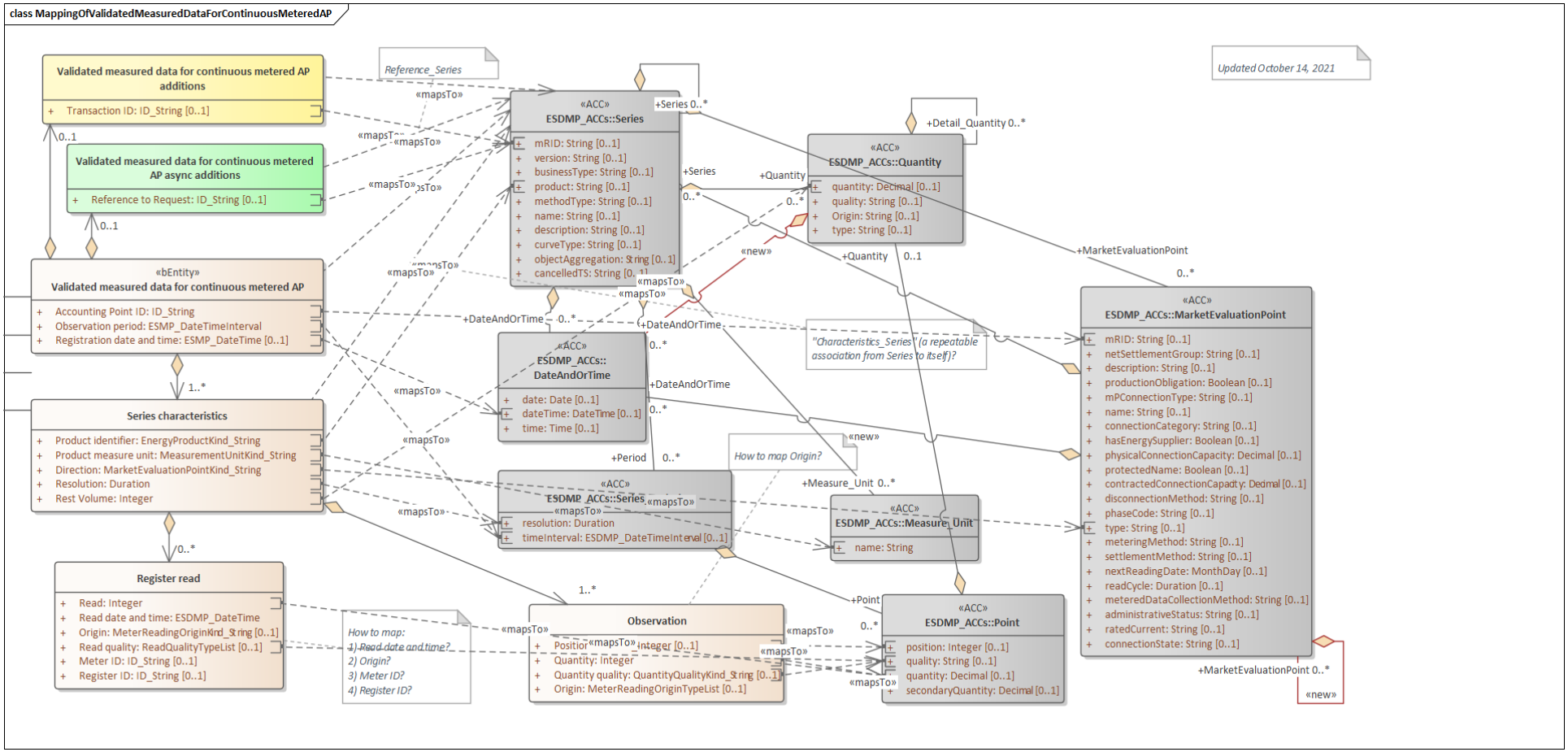
#	Project	EBG members	Status	Start	End
A)	RtR, Role-to-Role (hub)	All EBG	Start October 2018	Q4 2018	Q4 2021

B.3 Surveys

#	Survey	Status
A)		•

Appendix C 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.

[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
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.
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.

BRS attribute	BRS definition	CIM attribute	CIM definition
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