

Agenda EBG meeting	 European forum for energy Business Information eXchange
March 23 rd , 2022	EBG (ebIX® Business Group)

Date: Monday, March 21st, 2022

Time: 14:00 – 15:30

Place: GoToMeeting

Present: Boštjan, SODO
Jan, Svenska kraftnät
Gerrit, EDSN
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: None

1 Approval of agenda

The agenda was approved.

2 Approval of minutes from previous meetings (February 21st and 28th)

The minutes from previous meetings (February 21st and 28th) were approved.

3 Continue review of BRS for Measure for imbalance settlement

Ove had as action updated the BRS for Measure for imbalance settlement, which was reviewed:

- The NMEG MR “NMEG 2020-01” was reviewed. The MR requests three attributes needed as aggregation criteria in the Nordic countries when exchanging aggregated metered data for imbalance settlement:
 - A “Regulation Type” to identify the origin of the energy, e.g. Asset Type (MktPSRType) from ENTSO-E or Technology type from CEN.
 - A “Production Category”, used to describe if a production unit is of “normal” or “minor” size.
 - A “Type of metered data”, currently implemented as ENTSO-E Business Types, e.g.:
 - A07** Net production/consumption (Pumped storage (from combined generator/pump - only in Norway))
 - A15** Losses
 - A72** Interruptible Consumption
 - B27** Pumped
 - B28** Large installation consumption

A note was added to the class diagram for “Aggregated validated measured data per area”. Further it was noted that we must find out how to add this as master data in BRS for alignment of AP characteristics.

It was also concluded that the desired fields and values need more analysis and better structure (there is overlap in the values).

- It was added two bullet points to chapter “1.1 Basic assumptions”:
 - In case the validated measured data have been updated, the same version shall be made available to all Entitled Roles.
 - The implementation of a process where Balance Responsible Parties can propose validated measured data to the Metered Data Responsible (and the conditions under which it works) is up to national decision.
- All UseCase descriptions, up to chapter 2.6.2, was updated with corrected or clarifying text.
- It was agreed to keep the Consented Party as an “entitled party for validated measured date for imbalance settlement in an area”.

The review will continue for chapter 2.6.2 at the next meeting.

4 Alignment of master data for areas project

Status for invitation of the EU DSO Entity, ENTSO-G, EASEE-gas and ENTSO-E (CIM EG) to participate in the “Alignment of master data for areas” project.

A meeting is planned April 6th to inform Peter Vermaat (EU DSO Entity secretary general) about the project.

5 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

See Appendix C.

The item was postponed.

6 Meeting schedule

It was agreed to schedule EBG/RtR meeting from April 25 until July 4. It was also agreed to ask EBG if there is interest in participating in a face-to-face meeting before summer.

Action:

- Ove will schedule EBG/RtR meeting from April 25 until July 4 except May 9th (Gerrit on holiday) and June 6th (Whit Monday).
- Ove will ask Poland if they still are able to host a meeting and send a Doodle for the three last weeks of June

GoToMeetings:

- Every Monday from 14:00 to 15:30, scheduled until July 4th, 2022, except for holydays.

The next face-to-face meeting is planned at:

PSE S.A.

Warszawska 165 street

05-520 Konstancin-Jeziorna

Poland

7 AOB

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	<p>Finished</p> <p>To remember: Review of MR NMEG 2021/2 – Addition of a Supply Start Date to the AP Administrative Characteristics class,</p> <p>To remember: Review of MR NMEG 2021/3 – Addition of a Reporting resolution and Reporting Interval to the AP Administrative Characteristics class.</p> <p>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.</p>
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

Structure BRSs			
#	BRS	Status	Comment
12.	Combined grid and supply billing	Published at www.ebix.org	Finished
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	Finished	<ul style="list-style-type: none"> The content of the BRS is moved to a separate UseCase in BRS for Measure for Billing
2.	BRS for Measure for Billing	Finished	20211209: <ul style="list-style-type: none"> Published at www.ebix.org
3.	BRS Validated measured data	Finished	20220221: <ul style="list-style-type: none"> Published at www.ebix.org

Measure BRs				
#	BRS	Status	Comment	
4.	BRS for Measure for Collected Data	Finished	<p>20200402:</p> <ul style="list-style-type: none"> Published at www.ebix.org. <p>20200608:</p> <ul style="list-style-type: none"> “Collected Data” should be renamed to “Collected <i>Measured</i> Data” <p>20220104:</p> <ul style="list-style-type: none"> The BRS need a layout update, incl. renaming of the term “negative response” to “Rejection”. 	
5.	BRS for Measure for determine and exchange validated meter read	Finished	<p>20220310:</p> <ul style="list-style-type: none"> Published at www.ebix.org. 	
6.	BRS for Measure for Imbalance Settlement	<p>20220131:</p> <ul style="list-style-type: none"> EBG/RtR review to started. 	<p>20200615:</p> <ul style="list-style-type: none"> Include handling of MR “NMEG 2020-01”. 	
7.	BRS for measure for renewable energy certificates	Finished	<p>20220221:</p> <p>Published at www.ebix.org</p>	Finished
8.	BRS for Measure for Reconciliation	To be reviewed	<p>20210125:</p> <ul style="list-style-type: none"> 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	<p>20210125:</p> <ul style="list-style-type: none"> 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 24 th , 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.

#	Project description	Priority	Start
L)	Update definition of Accounting Point in the HRM.	TBD	When the flex project has concluded.
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

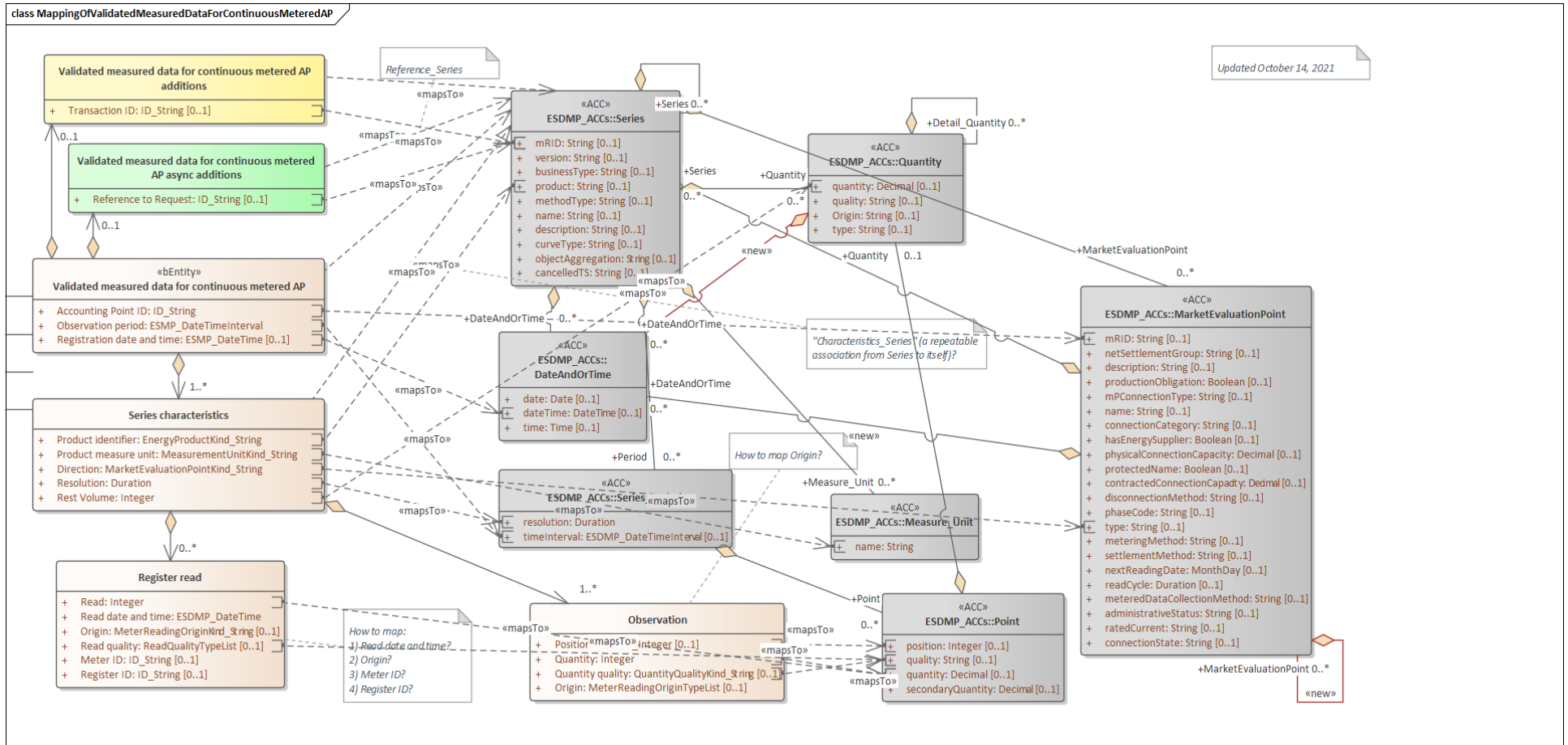
#	Project	EBG members	Status	Start	End
A)	RtR, Role-to-Role (hub)	All EBG	Start October 2018	Q4 2018	Q4 2021

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	<p>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).</p> <p>The Observation Period must contain a whole number of observations as derived from the resolution.</p> <p>The resolution is expressed in compliance with ISO 8601 in the following format:</p> <p style="text-align: center;">PnYnMnDTnHnMnS.</p> <p>For example PT15M for 15 minutes resolution.</p>	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	<p>The quantity value.</p> <p>The association role provides the information about what is expressed.</p>
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	<p>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.</p> <p>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.</p>
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	<p>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.</p> <p>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.</p>

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