

Minutes EBG meeting	 European forum for energy Business Information eXchange
November 24 th , 2021	EBG (ebIX® Business Group)

Date: Monday, November 22nd, 2021

Time: 14:00 – 15:30

Place: GoToMeeting

Present: Gerrit, EDSN
Ove, Edisys

Appendix B: Status for BRS review

Appendix C: EBG project and survey list

Appendix D: Mapping from ebIX® class diagrams for Validated measured data for continuous metered AP to CIM

Attachments:

1 Approval of agenda

The agenda was approved.

2 Approval of minutes from previous meeting

No comments have been received, hence the minutes from previous meeting (October 25th) were approved.

3 Resolve responses to question to EBG for how to increase participation in EBG

Conclusions from previous meeting:

- We will ask EBG if we shall split the weekly meeting into separate meetings for EBG and RtR. EBG meetings monthly and RtR meetings bi-weekly. If agreed, we will use Doodle to find the most suitable days for the meetings.
- We will also ask all to try finding extra RtR members with measure expertise, as proposed by ebIX® Forum.
- We expect to continue with GoToMeetings until after next ebIX® Forum in March next year. Thereafter we suggest having less face-to-face meetings than before the COVID shut down – instead having more GoToMeetings in-between.

Ove had as action sent the questions and comments above to EBG and ask for a response before the EBG meeting November 1st. The following responses were received:

Question	Andrzej, PSE
1. Do you agree to split the weekly EBG/RtR meetings into separate meetings for EBG and RtR and run RtR meetings bi-weekly and EBG meetings monthly?	I Agree
2. Do you think this will increase the participation in EBG and RtR?	There is a chance
3. Please also try to find extra (new) RtR members with measure expertise, as proposed by ebIX® Forum!	Might be hard

Conclusion:

The following e-mail was sent to all EBG members and observers:

The earlier survey where we asked for how to increase participation in EBG meeting, gave few responses and no conclusive directions. Therefor we propose the following way of working:

1. We continue with a small number of participants at the EBG/RtR meeting were we prepare and/or upgrade BRSs.
2. Thereafter, before the BRS is sent to ebIX® forum for approval, we need a thorough review of the final version of the BRSs from all EBG/RtR members.
3. We keep the weekly meeting on Monday afternoon (14:00 – 15:30). Where everybody is invited to call in.

We hope everyone can agree - if not, please send a response as soon as possible!

Item closed.

4 Area project plan

The updated project plan for an “European energy sector area project”, proposed by EBG, was approved by ebIX® Forum.

At the previous EBG meeting, Ove got an action to make a proposal for a short mail to be sent from Vlatka to the EU DSO Entity, ENTSOG and ENTSO-E (CIM EG), with the project plan attached to the mail – see Appendix A.

In response on a mail from Vlatka, Eurogas was reviewed and does not seem the appropriate organisation. Gerrit will try to get contact for ENTSOG and EASEE-gas.

To be continued at next meeting.

5 Final review of BRS for Validated measured data

Kees was asked for time slots (one to two hours) where we can discuss the final comments from him in the BRS for Validated measured data.

The review of the BRS is postponed until comments from Kees have been clarified in a separate meeting.

6 Review of BRS for Measure for Labelling / Measure for renewable energy certificates

The first parts of the BRS, introduction and Business Domain View, were reviewed and most of the proposed changes were either accepted or clarified. Among others the changes include:

- The general paragraph related to UMM in chapter A. About this document were agreed to be updated in all BRSs:

In line with UN/CEFACT Modelling Methodology version 2 (UMM-2) ebIX® defines the business requirements ~~before starting the actual~~ **as the first step in modelling energy market processes. This document specifies an UMM Business Requirements View, which consist of the three sub views: Business Domain View, Business Partner View and Business Entity View.**
- A check consent UseCase was added (include) to the “Exchange Validated Data for renewable energy certificates” UseCase.
- It was agreed that the check consent UseCase as part of the “Request validated measured data for renewable energy certificates” UseCase is included.
- We will change the term “negative response” will be replaced with “Rejection” an all Measure BRSs.

At the next meeting we will continue at chapter “3, Business Partner View: Measure for renewable energy certificates”.

7 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

The item was postponed.

8 Meeting schedule

It was agreed to prolong the series of GoToMeetings until Easter 2022.

Corona GoToMeetings:

- Every Monday from 14:00 to 15:30, scheduled until Easter (Monday April 4th), 2022, 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

9 AOB

No items.

Appendix A Draft letter to ENTSO-E, ENTSOG and EU DSO Entity

Dear Vlatka,

At the latest ebIX® Forum meeting, we agreed to extend the “common European energy sector area project” to include the whole energy sector. Therefore we should send an invitation for participation in the project to ENTSO-E, ENTSOG and EU DSO Entity.

We (Gerrit and I) suggest that you (Vlatka) send the invitation below to:

- Peter Vermaat, EU DSO Entity, peter.vermaat@eudsoentity.eu
- Jon-Egil Nordvik, convenor of CIM EG, jon-egil.nordvik@statnett.no
- Olivier Aine, ENTSO-E, olivier.aine@entsoe.eu (???)
- Lilia Jakobsson, ENTSOG, Lilia.Jakobsson@entsog.eu (???)

@ Vlatka, Lucy, Jan and Kees: do you have any comments to the proposed recipients or does any of you have additional recipients (I'm not sure that Olivier and Lilian are correct recipients).

@Vlaka: Is chair@ebix.org ok as email or should you use vlatka.cordes@westnetz.de?

Dear ENTSO-E, ENTSOG and EU DSO entity,

ebIX® has prepared a project plan for harmonising master data for Metering Grid Areas between European energy market segments, see attached pdf-document.

Background:

During the last years, several new areas have been introduced to the ENTSO-E, EFET and ebIX® Harmonised Electricity Market Role Model (HEMRM), see https://www.ebix.org/artikel/role_model, among others because of the introduction of new Network Codes. In the gas sector also various kinds of areas as a grouping of Metering Points are used. Analysis shows that these areas are used and defined differently in different countries, hence there is a need for common business requirements for the exchange of master data for these areas.

The Metering Grid Area (MGA) is the centrally placed area in the HEMRM, and all other areas defined in the HEMRM are based on a set of MGAs. For this reason, ebIX® has drafted a project plan that describes a project to jointly define the master data for the MGA and the processes (UseCases) needed to exchange these master data between different actors and market segments.

To make sure that relevant market segments in the European energy sector are represented in the project, ENTSO-E, ENTSOG and the EU DSO entity are invited to join ebIX® in this project.

The goal for the project is to make a harmonised core model, defined as a Business Requirement Specification (BRS), for the exchange of master data for a Metering Grid Area that fits the relevant market segments in the European energy sector. Further the project will document the way of working (methodology) when defining business processes for areas, including the basic principles underpinning these business processes.

If your organisation is interested in joining ebIX® in this project, please contact me, the convenor of the ebIX® Business Group (EBG), Mr. Gerrit Fokkema, gerrit.fokkema@edsn.nl, or the ebIX® secretary, Ove Nesvik, secretary@ebix.org.

Kind regards,

Vlatka Cordes,

chair@ebix.org.

Appendix B 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	To be reviewed	<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	20211025: <ul style="list-style-type: none"> Draft for version 3.1.A, which includes a UseCase for “Publish established calorific values”, will be sent to EBG for 14 days (before sent to ebIX® Forum for final approval for four weeks. 	20211025: <ul style="list-style-type: none"> Services, such as flex-services, is expected added in the next version of the BRS (v3.2). Addition of flex-services includes addition of a Resource ID to the class diagram(s) and extension of the Basic assumption chapter.

Measure BRSs			
#	BRS	Status	Comment
3.	BRS Validated measured data	20210315: <ul style="list-style-type: none"> Final review by EBG (14 days) before sent to ebIX® Forum for approval. 	
4.	BRS for Measure for Collected Data	20200402: <ul style="list-style-type: none"> Published at www.ebix.org. 	Finished. The BRS may be used as a template for how the Measure BRS may look like. 20200608: <ul style="list-style-type: none"> “Collected Data” should be renamed to “Collected <i>Measured</i> Data”
5.	BRS for Measure for Determine Meter Read	To be reviewed	20210125: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Include handling of MR “NMEG 2020-01”. 20210125: <ul style="list-style-type: none"> Investigate the need for addition of MDR and MGA in the “root class”, ref Dutch requirements.
7.	BRS for measure for renewable energy certificates	<ul style="list-style-type: none"> Review started at GoToMeeting February 17th; 	20210125: <ul style="list-style-type: none"> Investigate the need for addition of MDR and MGA in the “root class”, ref Dutch requirements. 20211011: <ul style="list-style-type: none"> Renamed from “BRS for Measure for Labeling”
8.	BRS for Measure for Reconciliation	To be reviewed	20210125: <ul style="list-style-type: none"> Investigate the need for addition of MDR and MGA in the “root class”, ref Dutch requirements.

Measure BRSs			
#	BRS	Status	Comment
9.	BRS for Settle for Reconciliation	To be reviewed	20210125: <ul style="list-style-type: none"> Investigate the need for addition of MDR and MGA in the “root class”, ref Dutch requirements.

Appendix C EBG project and survey list

C.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

C.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

C.3 Surveys

#	Survey	Status
A)		•

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	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	<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	

