

<b>Minutes EBG meeting</b>	 <b>European forum for energy Business Information eXchange</b>
August 21 <sup>st</sup> , 2023	<b>EBG (ebIX® Business Group)</b>

**Date:** Monday August 21<sup>st</sup>, 2023  
**Time:** 14:00 to 15:30  
**Place:** GoToMeeting  
**Present:** Boštjan, Section IPET (SODO)  
Gerrit, EDSN  
Jan, Svenska kraftnät  
Ove, Edisys

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**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.

## 2 Approval of minutes from previous meeting

The minutes from previous meeting were approved.

## 3 Prepare agenda for Maribor meeting Thursday September 14<sup>th</sup> and Friday September 15<sup>th</sup>

An agenda was agreed.

### **Action:**

- Ove will distribute it after the meeting.

## 4 Resolve matters related to close down of ebIX®

At the EBG meeting July 3<sup>rd</sup>, the following definition was drafted for the gas sector domain Temperature Zone:

### **Temperature Zone**

A set of gas Accounting Points where the temperature is assumed to be the same, hence also the same gas pressure.

However, Gerrit suggested an update after the meeting:

### **Temperature Zone**

A set of gas Accounting Points where the temperature is assumed to be the same, ~~hence also the same gas pressure.~~

*The red text should be deleted as it is not fully correct and not the only use of a temperature zone. It leads to the same pressure correction factor, however not necessarily the same pressure. It may also be used for the same weather correction factor for the temperature.*

**Conclusion:**

- Jan and Ove will inform Olivier about Gerrit's proposal for update of the definition of the Temperature Zone at the next HGRM/HEMRM meeting September 19<sup>th</sup>.

**5 Status for establishment of a German datahub (Joachim)**

The item was postponed.

**6 Status for handover of "Alignment of master data for areas project" to ENTSO-E**

The item was postponed.

**7 Error! Reference source not found., see Error! Reference source not found.**

Ove had as action cleaned up and re-published all Structure BRSs (18 BRSs), all Measure BRSs (7 BRSs) and an error correction in BRS for Flexibility register administration (removed one out of two occurrences of the Grid connection ID attribute in the class diagram for Flexibility register information).

Item closed.

**7.1 Making an introduction to the ebIX® BRSs**

Ove had as action clean up the "introduction to the ebIX® BRSs" based on comments from the meeting July 3<sup>rd</sup>.

Joachim and Gerrit had sent some comments to the introduction to the ebIX® BRSs, which were reviewed:

- Regarding comments from Joachim:
  - We leave the text in the ebIX® BRS for administration of consent and in the introduction as is.
  - We remove the reference to a "hub" from the introduction to ebIX® BRS for Change of Metered Data Responsible. This was also corrected in the BRS, which will be re-published.
- Also the comments from Gerrit were reviewed and resolved.

**Action:**

- Ove will re-publish the ebIX® BRS for Change of Metered Data Responsible.

**8 Review of ebIX® domain model (low priority item)**

Ove had compared the ebIX® (CuS) domain model from April 2010 with the domain model from the ebIX® Overview of energy flexibility services (from October 2019) as input for a review session.

However, there was no time to review the document.

**9 Meeting schedule****GoToMeetings:**

- Every Monday until December 18<sup>th</sup>, 2023.

**Note:**

- The meeting planned August 28<sup>th</sup> was moved, due to traveling for Nordic participants, to Thursday August 24<sup>th</sup>, 10:00 – 11:30.

- The meeting September 4<sup>th</sup> may be cancelled on short notice.
- If we run the meetings September 11<sup>th</sup> and 18<sup>th</sup> will be decided based on load, since they are close to the physical meeting in Maribor.

*Physical meetings:*

- Thursday September 14<sup>th</sup> and Friday September 15<sup>th</sup>, in Maribor, Slovenia.

**Hotel suggestion:** Hotel Orel

***Items for the agenda:***

- Bostjan will give a short presentation of “Sub-metering” in Slovenia.
- Tuesday December 12<sup>th</sup>, Wednesday December 13<sup>th</sup> and Thursday December 14<sup>th</sup>, in Oslo.

**10 AOB**

## 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	<b>20230206:</b> <ul style="list-style-type: none"> <li>Started February 2023</li> </ul>
B)	Efficient data alignment, including the possibility to request historical and/or future master data. See “very general” data act from EU: <a href="https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/13045-Data-Act-amended-rules-on-the-legal-protection-of-databases_en">https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/13045-Data-Act-amended-rules-on-the-legal-protection-of-databases_en</a> . EBG should start with a survey for the need of such a project.	To be decided by ebIX® Forum	<b>20230417:</b> <ul style="list-style-type: none"> <li>Not achievable.</li> </ul>
C)	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	<b>20230417:</b> <ul style="list-style-type: none"> <li>Not achievable.</li> </ul>
D)	Making a BRS for alignment of Exchange Point characteristics	High	<b>20230417:</b> <ul style="list-style-type: none"> <li>Not achievable.</li> </ul>
E)	Making an introduction to the ebIX® BRSs, including an overview of the BRSs and a short description.	In finalising Rtr	<b>20230417:</b> <ul style="list-style-type: none"> <li>Is on next EBG agenda</li> </ul>
F)	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	<b>20230417:</b> <ul style="list-style-type: none"> <li>If time item</li> </ul>
G)	Update of Gas Role Model with addition of Aggregated Reception Station, Calorific Value Area and Temperature Area for gas.	Low	<b>20230417:</b> <ul style="list-style-type: none"> <li>Inform the HGRM wg of the suggested domains.</li> </ul>
H)	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	<b>20230417:</b> <ul style="list-style-type: none"> <li>TBD</li> </ul>
I)	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	<b>20230417:</b> <ul style="list-style-type: none"> <li>When updating role definitions in BRSs</li> </ul>
J)	Review of BRS for Settle for Reconciliation, ref. minutes from EBG meeting October 10 <sup>th</sup> , 2022.	Low	<b>20230417:</b> <ul style="list-style-type: none"> <li>At least to consider during handover to EU DSO Entity.</li> </ul>

#	Project description	Priority	Start
K)	Uniform the way of using attributes in “Addition” and “Async addition” classes, see memo: “Usage of attributes in confirm and reject documents in ebIX BRSs”	Low	<b>20230426:</b> <ul style="list-style-type: none"> <li>• If time</li> </ul>
L)	Mapping from ebIX® Class diagrams to CIM, see Appendix B	If time item	<b>20230821:</b> <ul style="list-style-type: none"> <li>• <i>For review at next physical EBG meeting in September 2023</i></li> </ul>

### A.2 Approved (and running) projects

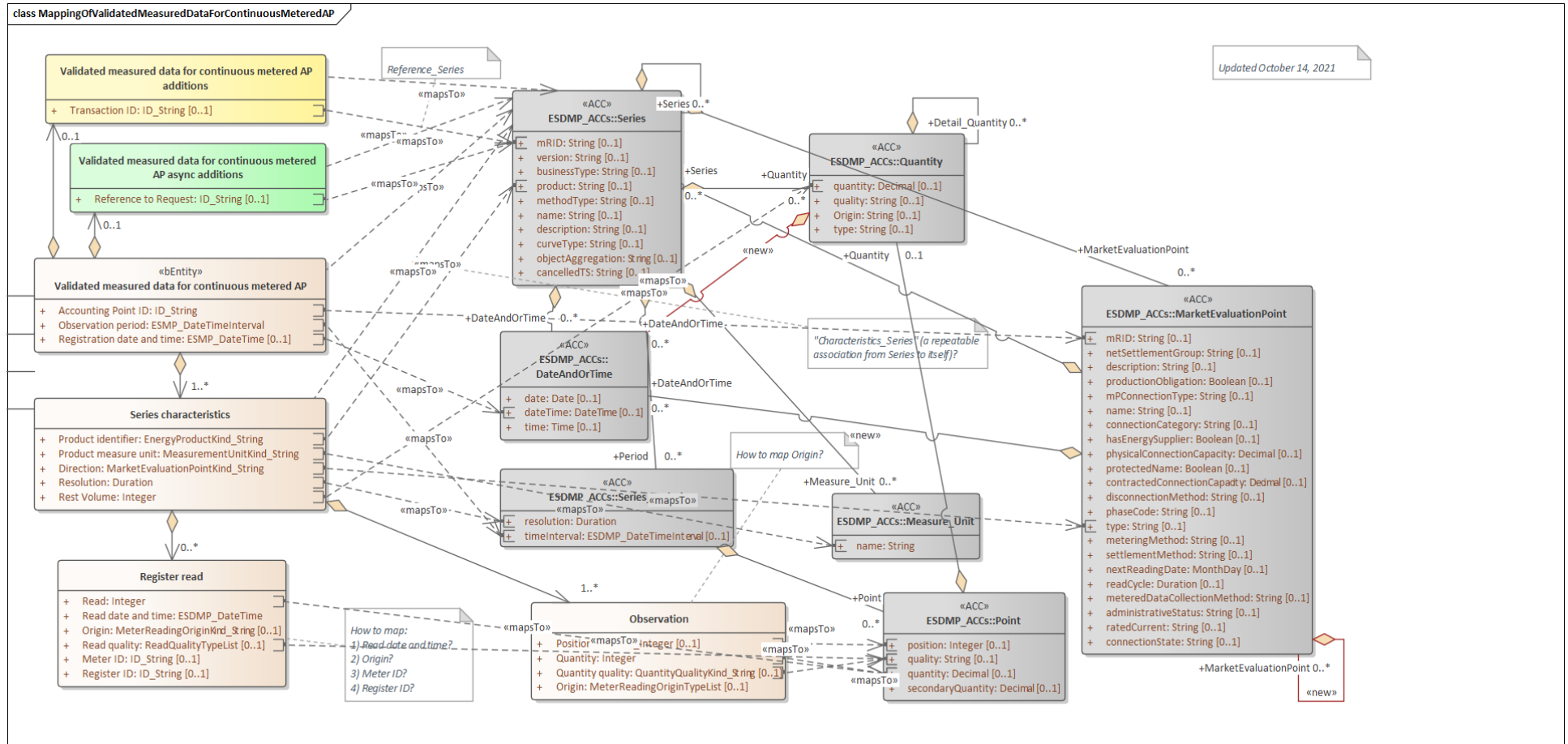
#	Project	Members	Status	Start	End
A)	Common energy market area project	<b>EBG:</b> Bartosz, Boštjan (?), Gerrit, Kees and Ove. <b>“External”:</b> Douglas (ENTSOG), Jon-Egil (ENTSO-E/CIM EG) and ? from EU DSO Entity	Hopefully start October 2022	Dependent on ENTSO-E	?

### A.3 Surveys

#	Survey	Status
A)	None.	

## 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	<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 <b>PT15M</b> 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 <sup>1</sup>	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	

<sup>1</sup> 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	<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.
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>

class MappingOfValidatedMeasuredDataForContinuousMeteredAP

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