Minutes EBG meeting	European forum for energy Business Information eXchange
June 17th, 2022	EBG (ebIX® Business Group)

Date: Monday, June 13th, 2022
Time: 14:00 –15:30
Place: GoToMeeting

Present: Gerrit, EDSN
Jan, Svenska kraftnät
Joachim, Westnetz
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 meeting

The item was postponed.

3 Status for "Alignment of master data for areas project"

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

We now have the following confirmed members of the common European energy sector area project:

Name	Company	Representing
Bartosz Kwiatkowski	PSE	ebIX®
Douglas Hill	ENTSOG	ENTSOG (observer)
Gerrit Fokkema (Convenor)	EDSN	ebIX®
Jon Egil Nordvik	Statnett	ENTSO-E/CIM EG
Kees Sparreboom	TenneT	ebIX® or ENTSO-E
Ove Nesvik (Secretary)	EdiSys	ebIX®
?	?	EU DSO Entity

A mail was sent to the EU DSO Entity members we have been in contact with (Peter, Paul and Georg) asking for a status for finding members.

4 Status for datahub survey

Sylvia and Joachim have sent a request for update of the original "datahub survey" drafted summer 2019. The request is based on a question from the German regulator who wants to know the overall status for other European datahubs.

At the physical EBG meeting the week before, an updated survey was distributed to the ebIX® members that have answered, or is expected to answer, the survey. The main update is addition of a new row in the survey "**Regulation**" to specify the degree of regulation of the implemented datahubs.

We should update the published survey when this new one is finished.

5 Review of the "Structure" UseCase diagram from the ebIX® MagicDraw UML Model

Ove had as action from previous meeting to update the "Structure" UseCase diagram from the ebIX® MagicDraw UML Model, including rename of "Energy flexibility services Phase 2" to "Flexibility administration".

During the update, Ove got two questions:

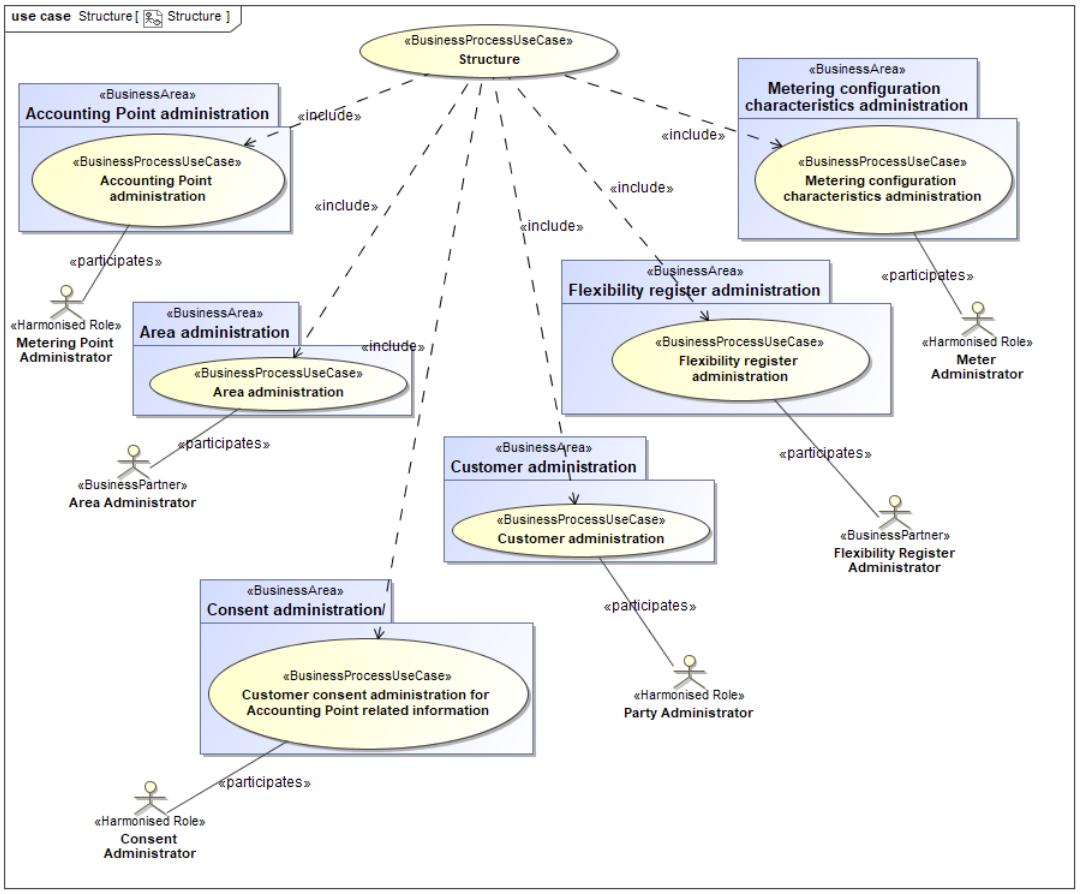
- Shall we add the «Harmonised Role» Scheduling Area Responsible in addition to the «BusinessPartner» Area Administrator for the Area administration.
- What to do with the package "Combined grid and supply billing" – is this more like a subprocess under a business area "Billing administration" or similar.

And we got some remarks from Kees:

- No remarks on the flexibility part.
- But I do have questions about the consent part. As you notice all (top) UseCases have got a name like …. Administration. Except consent. The consent UseCase is I assume the first level process UseCase instead of the overarching top-UseCase for an administration. That is for now for me the most important remark.
- But, when I looked into the consent UseCases I got the impression, that this partly master data and partly processes. Not processes for change/update consent information as master data, but just for use. But as stated already, this is for later. For now I would suggest bringing the naming of the consent master data top-UseCase in line with the others.

Conclusions:

- We use the «BusinessPartner» Area Administrator as the "responsible role for the Area administration package.
- The "Combined grid and supply billing" should probably be part of the Business Area "Settle" or "Bill", hence not added to the Structure UseCase diagram.
- We will add a task for EBG to update the ebIX® domain model, among others to see if the UseCases "Combined grid and supply billing" and "Settle for reconciliation" should be part of the Business Area "Settle" or "Bill".
- "Administer Customer consent for Accounting Point related information" was renamed to "Customer consent administration for Accounting Point related information".



Action (low priority):

- 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.

6 Review of BRS for Settle for Reconciliation

At the EBG meeting June 8th and 9th, it was started on a review of the BRS, but the BRS seems complicated and difficult to understand for people that were not part of the creation of it. Hence, it was agreed to ask all participants at the EBG meeting to send the BRS to national reconciliation experts, asking if they can understand the BRS and if the content still is valid.

Ove asked if we should ask all EBG members, not only the members participating at the previous EBG meeting, which was agreed.

Action:

- All are asked to send the BRS for Settle for Reconciliation to their national reconciliation experts, asking if they can understand the BRS and if the content still is valid.

7 Review of HEMRM (Harmonised Electricity Market Role Model) roles

The review of OneNet Project proposals for new roles to the HEMRM was started at the end of our physical meeting in Warszawa and continued at this meeting (the “roles” with white background):

OneNet roles not in HEMRM	EBG comment
a) Transmission System Operator (TSO)	Exists as an actor (Party) – System Operator is one of the roles for this party
b) Distribution System Operator	Exists as an actor (Party) – System Operator is one of the roles for this party
c) Prosumer	This is the Party Connected to the Grid (with specialisations to Producer and Consumer)
d) Flexibility Service Provider (FSP)	Currently only the BSP is part of the HEMRM. EBG suggest adding the FSP with the BSP as a specialisation of the FSP
e) Platform	This seems like a "service" and not a role.
f) Unit/Flexibility Provider	This is probably the same as the FSP
g) Distributed Energy Resource	This is probably the same as the Resource
h) Weather Forecast Provider	This is outside of the scope of the HEMRM. If added it is probably the same as the Data Provider or eventually a specialisation of the Data Provider
i) Flexibility Register Operator	EBG has introduced the Flexibility Register Administrator, who covers much of this role.
j) Local Management System (LMS)	This is described as an "IT system planning the charging patterns". We need more information.
k) Independent Market Operator (IMO)	In the ebIX® Energy flexibility project, a Flexibility Settlement Responsible is defined that could cover this proposal.
l) Optimisation Operator	This sems like a very questionable "policing role" – Is it the role publishing the grid constraints? Probably not to be added.
m) Aggregator	The "Cypriot Demo" definition seems to match the HEMRM Resource Aggregator, the "Czech Demo" seems to be in line with the ebIX® flex project's FSP and the "Greek Demo" seems strange as a role in the market (more like integrated planning for TSOs/DSOs, hence no role in the energy market).

Action:

- The result above will be forwarded to the HG.
- At the next meeting we will review the "Agreed changes to HEMRM 2022-02".

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

See Appendix C.

The item was postponed.

9 Meeting schedule

GoToMeetings:

- Every Monday from 14:00 to 15:30, scheduled until July 4th, 2022, continuing August 29th until December 19th, 2022, except for holydays.

Physical meeting:

- Tuesday and Wednesday December 6th and 7th, 2022, in Germany (?)

10 AOB

No items.

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	Finished	• 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:** • Published at www.ebix.org
3.	BRS Validated measured data	Finished	**20220221:** • Published at www.ebix.org
4.	BRS for Measure for Collected Data	Finished	**20200402:** • Published at www.ebix.org. **20200608:** • "Collected Data" should be renamed to "Collected ***Measured*** Data" **20220104:** • The BRS need a layout update, incl. renaming of the term "negative response" to "Rejection".

Measure BRSs			
#	**BRS**	**Status**	**Comment**
5.	BRS for Measure for determine and exchange validated meter read	Finished	**20220310:** • Published at www.ebix.org.
6.	BRS for Measure for Imbalance Settlement	**20220609:** • Will be sent for four weeks of approval to ebIX® Forum.	**20220609:** • Sent on circulation for comments to ebIX® Forum until August 9th.
7.	BRS for measure for renewable energy certificates	Finished	**20220221:** • Published at www.ebix.org
8.	BRS for Measure for Reconciliation	**20220609:** Will be sent for four weeks of approval to ebIX® Forum.	**20220609:** • Sent on circulation for comments to ebIX® Forum until August 9th.
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. **20220609:** • All EBG participants are asked to send the BRS to national reconciliation experts, asking if they can understand the BRS and if the content still is valid. **Answer before July 4th.**

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)	High	After finalising RtR
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	After finalising RtR
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	Not prioritised	EBG must do a survey for the need of such a 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	After A) and B)
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	TBD
G)	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	Medium	After finalising RtR
H)	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	After finalising RtR
I)	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	After A), B), G) and H)

#	Project description	Priority	Start
J)	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.
K)	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
L)	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

B.2 Approved (and running) projects

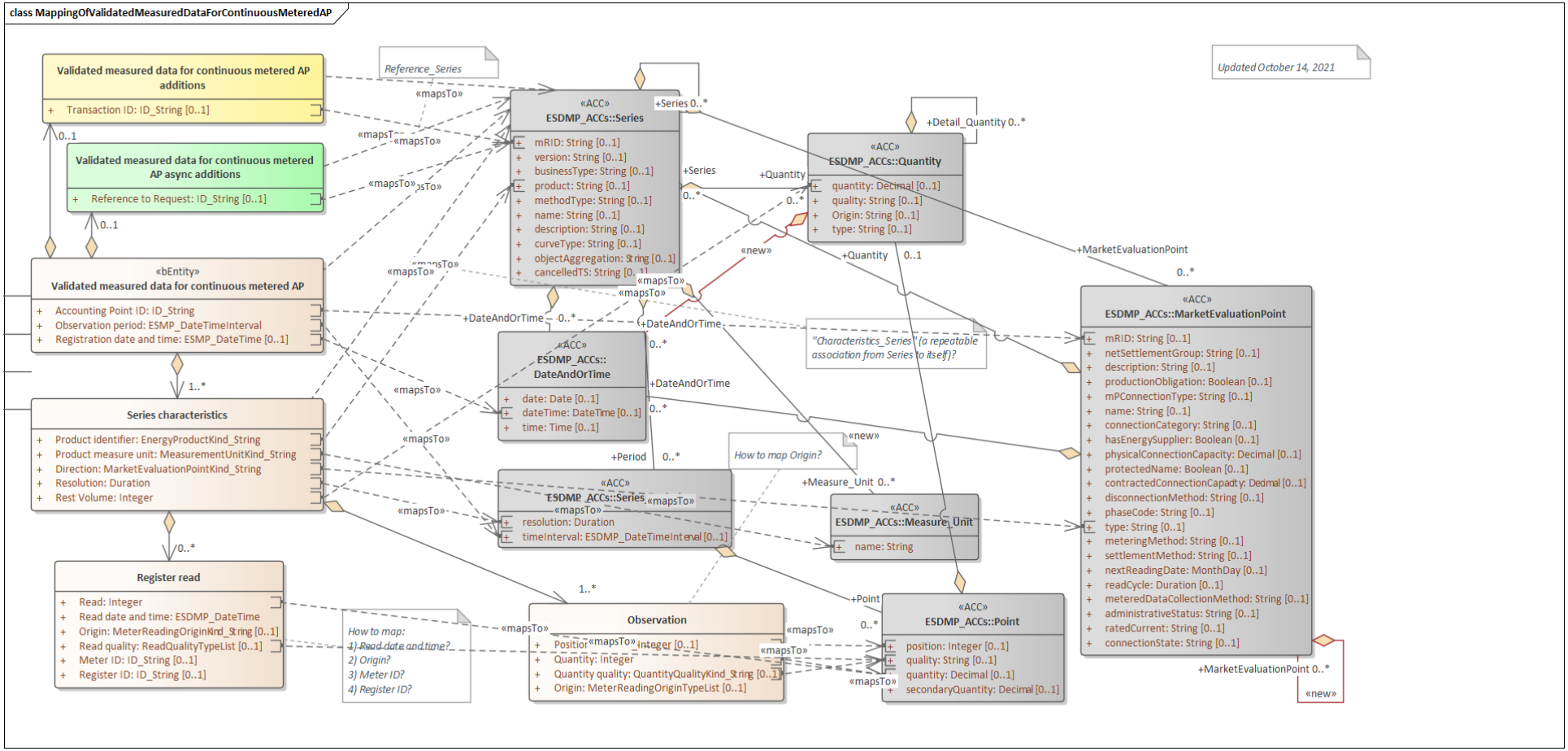
#	Project	Members	Status	Start	End
A)	RtR, Role-to-Role (hub)	All EBG	Start October 2018	Q4 2018	Q4 2021
B)	Common energy market area project	Bartosz, Boštjan (?), Gerrit, Jan (?), Kees, Ove Douglas (ENTSOG), Jon-Egil (ENTSO-E/CIM EG) and ? from EU DSO Entity	Hopefully start October 2022	October 2022?	?

B.3 Surveys

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

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.
Meter ID	The unique identification of the Meter linked to the Accounting Point, which contains the register that has been read.	N/A	

[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