Date: Monday, September 19th, 2022
Time: 14:00 –15:30
Place: GoToMeeting

Present: Bartosz, PSE
                Gerrit, EDSN
                Joachim, Westnetz
                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: None

1   Approval of agenda

The agenda was approved with the following additions:

- Can we find a better name than "datahub" for a hub that is a combined data storage, data processing and communication hub, see item 11.1 under AOB.

2   Approval of minutes from previous meeting

The minutes from previous meeting were approved.

3   Status for "Alignment of master data for areas project" (follow up item)

Currently we have the following confirmed participants in the common European energy market "Alignment of master data for areas" 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

We are still awaiting a response from the EU DSO Entity regarding their participation (October?).

4 Continue review of items with red background in the "Comment column" in Appendix B (Status for BRS review)

Ove had as action cleaned up the BRS for Alignment of Accounting Point characteristics. During the clean-up, some issues regarding the definitions of attributes in the request and confirm update Accounting Point characteristics documents were found, which were resolved during the meeting.

Ove had also as action cleaned up the BRS for Measure for Collected Data. It was agreed to remove the attributes added during previous meeting, i.e. product identifier and measure unit. In addition a new chapter "1. Introduction" with a sub chapter "1.1 Basic principles and assumptions" was added. Here it was noted:

- The measurement characteristics of the Metering Point, such as product identifier, direction and measure unit, are master data and assumed to be known by the Metered Data Responsible, hence not exchanged in the processes described in this BRS.

Gerrit and Ove had made a first draft of a survey for how to link APs. The survey was discussed and slightly updated.

Jan has informed that intend to show the following slides at a WG16 meeting later this week:

The slides from Jan were briefly discussed with the remark that we would like Jan to bring such discussion topics to EBG before going to IEC and/or ENTSO-E.

Conclusion:

- The topic above will be added to next EBG agenda.

Action:

- Ove will send the BRS for Alignment of Accounting Point characteristics and the BRS for Measure for Collected Data to ebIX® Forum and EBG for four weeks of approval.

- Ove will send the survey for how to link APs to EBG, asking for response before next EBG meeting, September 26th.

Item closed.

5   Review of HEMRM definitions

The item was postponed.

6   Update of BRSs to HEMRM 2022-01

The item was postponed.

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   Review of BRS for Settle for Reconciliation

The item was postponed.

9   Review of ebIX domain model (low priority item)

The item was postponed.

10   Meeting schedule

GoToMeetings:

- Every Monday from August 29th until December 19th, 2022, except for holydays.

Physical meeting:

- Tuesday and Wednesday December 6th and 7th, 2022, in Hamburg.

11   AOB

11.1   *Can we find a better name than "datahub" for a hub that is a combined data storage, data processing and communication hub*

Joachim informed that there are some problems with the using the term "Data HUB" in Germany - a lot of the people think that a datahub is only a big passive data storage centre. Hence Germany is searching for a better name.

Ove thinks a datahub normally does "everything", including storage of data, data processing (supplier switch etc.) and routing of data exchanges. If Joachim want to be more precise, he could call it a "combined data and communication hub" or even "combined data storage, data processing and communication hub". Or maybe even better, define what is meant with the term datahub by adding a definition in the beginning of a document, such as: *"… in this document the term Datahub is used for a combined data storage, data processing and communication hub"*.

From discussion:

- In Germany they have tried using the term "intelligent datahub", however this is a new word in the market and not clear enough for all.

- In Norway it is solved by finding a new name for the hub – Elhub (Electricity market hub).

- Gerrit thinks that the roles the datahub performs must be introduced, such as the roles of the Metered Data Administrator, Metering Point Administrator, Flexibility Register Administrator, etc.

Conclusion:

- It doesn't seem that there is a good name that includes what Joachim is looking for. Maybe the term "intelligent datahub" is the best proposal so far. Alternatives are using some words explaining the functions of the hub (data storage, data processing, communication etc.) or using the roles the hub performs (Metered Data Administrator, Metering Point Administrator, Flexibility Register Administrator, etc.).

Item closed.

Appendix A   Status for update of BRSs to HEMRM 2022-01 and other updates

A.1   Structure BRSs

#	BRS	Status	Comments
1.	BRS for administration of consent	Updated the definition of the role Consumer. Updated Appendix A.	a) Shall we add Flexibility Register Administrator to the UC "Check consent"? If yes, we should probably send it to ebIX Forum for approval. b) There were mismatch between some of the class diagrams and the related element definitions, which has been corrected.
2.	BRS for Alignment of AP characteristics	Roles are updated to be in line with HEMRM 2022-01. Updated Appendix A.	*20220919:* • Sent it to EBG and ebIX® Forum for approval.
3.	BRS for Alignment of Area characteristics	Updated the definition of the role Market Operator. Updated Appendix A.	Shall we publish it directly?
4.	BRS for Alignment of characteristics of a Customer at an AP	No changes to roles needed. Updated Appendix A.	Shall we publish it directly?
5.	BRS for Alignment of metering configuration characteristics	No changes to needed. Updated Appendix A.	Shall we publish it directly?
6.	BRS for bulk change of BRP	No changes to roles needed	
7.	BRS for Bulk change of Shipper	Updated Balance Supplier to Energy Supplier, incl. update of the definition.	Shall we publish it directly?
8.	BRS for Change of BRP	Updated roles, such as Balance Supplier to Energy Supplier, incl. update of the definitions.	Shall we publish it directly?
9.	BRS for Change of Metered Data Responsible	Updated definitions of Metered Data Responsible and Metering Point Administrator incl. update of the definition.	Shall we publish it directly?
10.	BRS for Change of Shipper	Updated roles, such as Balance Supplier to Energy Supplier, incl. update of the definitions.	Shall we publish it directly?

#	BRS	Status	Comments
11.	BRS for Change of supplier	Updated role definitions incl. update of Energy Supplier to fit gas.	The definition of the Energy Supplier in the Business Partner View is updated to fit gas. Shall we present it to the group harmonising HGRM and HEMRM[1]?
12.	BRS for Combined grid and supply billing	No changes to roles needed, however there are from earlier some corrections of spelling and grammatical errors.	Shall we review it and publish it directly?
13.	BRS for Consented request for Accounting Point characteristics	No changes to roles or other updates needed.	
14.	BRS for Customer move	No changes to roles needed. Updated attribute sequence in class diagrams.	Shall we publish it directly?
15.	BRS for End of Metered Data Responsible	Updated definitions of Metered Data Responsible and Metering Point Administrator incl. update of the definition. Updated attribute sequence in class diagrams.	Shall we publish it directly?
16.	BRS for End of supply	Updated definitions of BRP, Balance Supplier (to Energy Supplier) and Metering Point Administrator incl. update of the definition. Updated attribute sequence in class diagrams.	Shall we publish it directly?
17.	BRS for Manage APs	No changes to roles or other updates needed. Updated attribute sequence in class diagrams.	Shall we publish it directly?
18.	BRS for Rearrange MPs between grids	Updated definitions of BRP, Balance Supplier (to Energy Supplier) and Metering Point Administrator incl. update of the definition.	Shall we publish it directly?

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[1] Action item 2022a-02 from ebIX® Forum: EBG/RtR will 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.

A.2 Measure BRSs

#	BRS	Status	Comments
1.	BRS for Measure for Billing	No changes to roles needed to roles.	However, the sequence of attributes in "Series characteristics" in "Validated measured data for billing" has been updated (Moved Resolution to the Product, unit cluster) and the layout in Appendix A have been updated. Exchange UCs has been renamed to Notify. Updated Appendix A. Shall we publish it directly?
2.	BRS for Measure for Collected Data	Update of roles to be in line with the ebIX®, EFET and ENTSO-E Harmonised Electricity Market Role Model version 2022-01.	*20220919:* • Sent it to EBG and ebIX® Forum for approval.
3.	BRS for Measure for Determine and exchange validated meter read	No changes to roles needed to roles.	Exchange UCs and documents has been renamed to Notify. Shall we publish it directly?
4.	BRS for Measure for Imbalance Settlement	No changes to roles needed to roles.	
5.	BRS for Measure for Reconciliation	No changes to roles needed to roles.	
6.	BRS for Measure for renewable energy certificates		Moved Resolution to the Product, unit cluster in all class diagrams. Updated Appendix A.
7.	BRS for Validate and ~~exchange~~ notify measured data	No changes to roles needed to roles.	Moved Resolution to the Product, unit cluster in all class diagrams. Exchange UCs and documents has been renamed to Notify.

A.3 Distributed Flexibility BRSs

#	BRS	Status	Comments
1.	BRS for Flexibility register administration	No changes to roles or other updates needed.	See comments in the memo: "usage of attributes in confirm and reject documents in ebIX BRSs"
2.	BRS for Prepare and aggregate Resources for flexibility services	No changes to roles or other updates needed.	

A.4 Settlement and reconciliation BRSs

#	BRS	Status	Comments
1.	BRS for Settle for Reconciliation	TBD	TBD

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	Finished **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
13.	Consented (earlier Upfront) request for Metering Point Characteristics	Published at www.ebix.org	Finished
14.	Customer move	Published at www.ebix.org	Finished.

Structure BRSs			
#	BRS	Status	Comment
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".
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.	**20220905:** • Published at www.ebix.org.
7.	BRS for measure for renewable energy certificates	Finished	**20220905:** • 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.

Measure BRSs			
#	BRS	Status	Comment
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 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)	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 2021/3 – Addition of a Reporting resolution and Reporting Interval to the AP Administrative Characteristics class. in Alignment of AP characteristics BRS	Medium	After finalising RtR
H)	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) and G)
I)	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.
J)	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

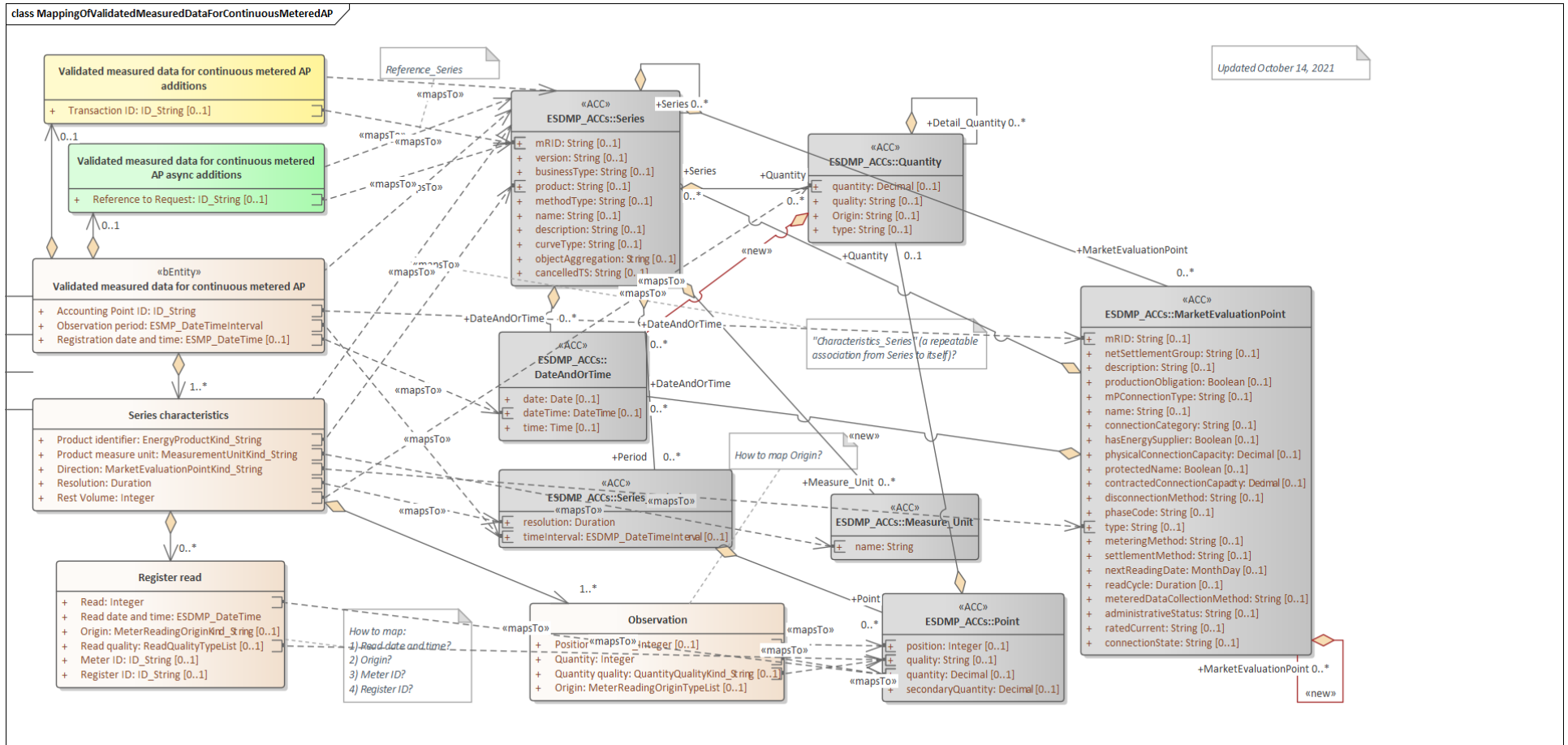| #	Project description	Priority	Start
K)	Verify extensions to the definitions of roles with the group harmonising the electricity and gas markets role models before adding the extension to the role definitions in a BRS to include gas.	Continuous	When updating role definitions in BRSs

C.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	**EBG:** Bartosz, Boštjan (?), Gerrit, Kees and Ove. **"External":** Douglas (ENTSOG), Jon-Egil (ENTSO-E/CIM EG) and ? from EU DSO Entity	Hopefully start October 2022	October 2022?	?

C.3 Surveys

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

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[2]	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	

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[2] 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.

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