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

Present: 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 with the following additions:

- The content of Consents - a work done now in Sweden, see item 8.1 under AOB.
- Comments to BRS for Measure for determine and exchange validated meter read, see item 8.2 under AOB.
- ebIX® requests for Contract attribute for discussion in CIM EG Retail market subgroup, see item 8.3 under AOB.

2   Approval of minutes from previous meeting

The minutes from previous meeting were approved.

3   Alignment of master data for areas project

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

Nothing new.

4   Review of update of BRS for Customer move

The BRS for Customer Move is updated with new adjusted Harmonised Electricity Market Role Model (HEMRM) definitions and with addition of the Flexibility Register Administrator to the UseCase "Notify Customer move out".

The definition of the Flexibility Register Administrator was updated to be in line with the current definition of Metering point Administrator:

A party responsible for administrating and making available the characteristics of Resources at Accounting Points used for flexibility services, including registering the parties linked to the Resource and its flexibility services.

Additional information:
The Flexibility Register Administrator also keeps track of pools the Resources are linked to. Based on national rules the Flexibility Register Administrator may also keep track of who the Flexibility Settlement Responsible is for the Accounting Point and Resource and/or keep track of relevant activation windows for the Resource.

Action:

- Since this only is textual updates that doesn't change the process itself, Ove will publish the updated BRS for Customer move directly at www.ebix.org.

- We will inform ebIX® forum about the update during the coming ebIX® Forum.

Item closed.

5   Start on review of Measure for imbalance settlement

It was noted that we must include handling of MR "NMEG 2020-01", which is a request for new areas (domains) used by the gas sector, i.e. Aggregated Reception Station, Calorific Value Area and Temperature Zone.

6   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.

7   Meeting schedule

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

8   AOB

8.1   *The content of Consents - a work done now in Sweden*

The following information had been received from Jan – taken ad notam.

I will expect a decision during February if we will start to exchange consents in a more standardized way in Sweden.

Some background.
Today the consents are sent from an Energy supplier (or ESCO) to a DSO or to (old) supplier in many kinds of formats and ways. It could be an audio file, where the receiver then can hear the customer say "yes" to some questions. It could be any kind of non-standard document where the consent is given. The consent could be without end-date, allowing the Energy supplier to come back several years later and start the process again – perhaps then the customer does not remember that he gave this consent. The hope is that a (mandatory) standard could limit the irritation from many customers not wanting a company to act on their behalf and reduce the amount of manual work within the industry.

The idea is to have standardized (mandatory) forms to be e-mailed from the ESCO to the DSO, from the (new) Energy supplier to the DSO or to the old Energy supplier. However, the idea is also to make it possible, probably as next step, to send these forms as "EDI messages". Most likely the using a JSON-format, but – as I want them – to be based on CIM. The idea, in this next step, is to send both the form and the JSON-file in the same exchange making it possible for the receiver to choose: handle it manually or handle it automatically.

The form, that will be mapped to CIM, will contain a set of information regarding the consent. There will be two variants of the form. One for private customers, and one for corporate customers (and actually including an estate after turn of year when the deceased customer is no longer "a private person"). But very similar.

Let us guess that a consent will have an Id. One important attribute is: what is covered by this consent? The working group has listed about nine different purposes of consents. Consent number 1234 for one or a set of accounting points, can then first have e.g. two of these purposes, later be updated to also include a third purpose. But will not be valid any longer than three months. Three of the purposes are only valid for ESCOs, the others are for Energy suppliers (or brokers trying to the find the best contract for the customer). No consent will last longer than three months, after that it is expected that the customer got what he wanted to happen. I.e. a contract with a new Energy supplier or changes in his current contract, or a contract with an ESCO – with a running information flow.

Looking now at

- [ebIX BRS for administration of consent v1r1C.pdf](#)

I find the relevant "Request consent" to start from
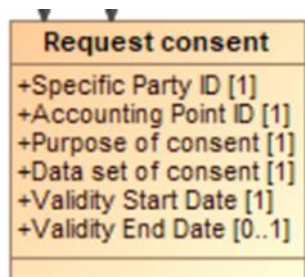
Regarding the nine different purposes of consents, I give you three examples relevant for an ESCO:

6) You are allowed to get information about my earlier use of energy at this accounting point [maximum three years]

7) You are allowed to start getting the metered values at this accounting point [i.e. the DSO will start to send the values to the ESCO]

8) You are allowed to start hourly metering (or higher resolution) at this accounting point [i.e. the ESCO will ask the DSO to change from monthly to hourly metering]

Other purposes are relevant for brokers or Energy suppliers. And of course these purposes will change from country to country and over time.

Perhaps we will group the purposes into some "types of consent", in a way related to the role of the Specific Party, but rather the process, e.g. "Change of supplier", "Move in/move out", "ESCO-related", "Invoicing"

Looking a bit into CIM, I could expect a "consent class" to be based on "Document" – almost 50 classes in CIM are directly based on Document, so one more will not be noticed… But I will now look more into this and can show later this month or next, an early draft. Dependent of course what will be decided to happen with the project.

Item closed.

8.2 Comments to BRS for Measure for determine and exchange validated meter read

The BRS for Measure for determine and exchange validated meter read has been sent to ebIX® Forum and EBG on circulation for comments until March 10th. However, Gerrit had made some comments to it that was reviewed:

- It was added clarifying text, such as replacing "a change of a characteristic" to "(such as change of supplier or Balance Responsible Party, or Customer move, etc.)".

- Addition of an UC diagram showing which other BRSs that reference BRS for Measure for determine and exchange validated meter read.

- The UC description of "Determine and exchange validated meter read" was updated to be in line with what we say in the BRS, such as

  o Begins when "the Metered Data Responsible receives a notification of a change of Metering Point characteristics" and not when "the Metered Data Responsible is triggered for the need for a validated meter read at the change date" as the trigger-process is part of the UC.

  o Ends when "the validated meter read for the change, and if applicable the associated volume, has been made available for the *Metered Data Administrator*" and not when "the validated meter read for the change, and if applicable the associated volume, has been made available to those parties that are entitled for it", as that is not part of the UC, but may be the next step for the Metered Data Administrator to do.

  o Postcondition "the Metered Data Administrator has received validated measured data for the change and is ready to distribute it to the parties that are entitled for the validated meter read for the change in Accounting Point characteristics" and not "the parties that are entitled for the validated meter read for the change in Accounting Point characteristics have received it….".

- The Business Partner View was simplified, i.e. the parties not part of the elaborated UCs were removed.

Action:

- Ove will add agreed changes to the BRS for Measure for determine and exchange validated meter read and distribute it (with changes tracked) to ebIX® Forum (for information) together with publication.

Item closed.

## 8.3 ebIX® requests for Contract attribute for discussion in CIM EG Retail market subgroup

From Jan:

"Regarding pt 2) where I wrote

"… to Flexibility Contract", keeping it as Boolean, with the description "Indicates if there is a contract at this AccountingPoint as a result of the demand side management or the load management for the AccountingPoint"." that could include not only one, but more contracts. So a better text could be "Indicates if there are contract(s) at this AccountingPoint as a result of the demand side management or the load management for the AccountingPoint." Then the Energy supplier will be informed if there are contract(s) of this kind. Or not. If there are contracts, only "entitled other parties" should be informed about the details in such contracts (one "entitled other party" may be the Energy supplier). That information, including the "type of contract", should be – as we suggested – put into another class that would be associated with the MarketEvaluationPoint. But also with RegisteredResource. Then we can inform about not only one "type of contract", but "type of contract" for all the contracts associated with the MarketEvaluationPoint.

So Flexibility Contract will only tell that there are such contracts, the Energy supplier being informed about that may not be involved in any of those contracts or not entitled to be informed of the details. The details (like "type of contract") could be put into another class, being repeatable for the Market Evaluation Point. And perhaps the Energy supplier also could get this information. See draft figure where I added the suggested new association between MarketEvaluationPoint and MarketAgreement (see ebIX® MR 2022/005, described in an e-mail sent February 9th). But now also a possible new class to be used for "Flexibility Agreements", that I would suggest to be associated also with RegisteredResource (however not in the figure). In the figure I show all inherited attributes for "FlexibilityAgreement", like "type" that would tell "type of contract". But I would say we should only add this new class if we add new attributes or new associations to it. Otherwise we can use MarketAgreement. What will be relevant around flexibility we will see in the development of those markets. Currently we can stick to the addition of information in "Accounting point" that there are such contracts.

Before I leave this item for today, I would like to raise the question: Should this new attribute (flexibilityContract) in AccountingPoint be moved to MarketEvaluationPoint? There are operative situations where you disconnect an ExchangePoint (intentionally or unintentionally). But are there market situations when you do that? If not, let us keep the attribute in AccountingPoint."
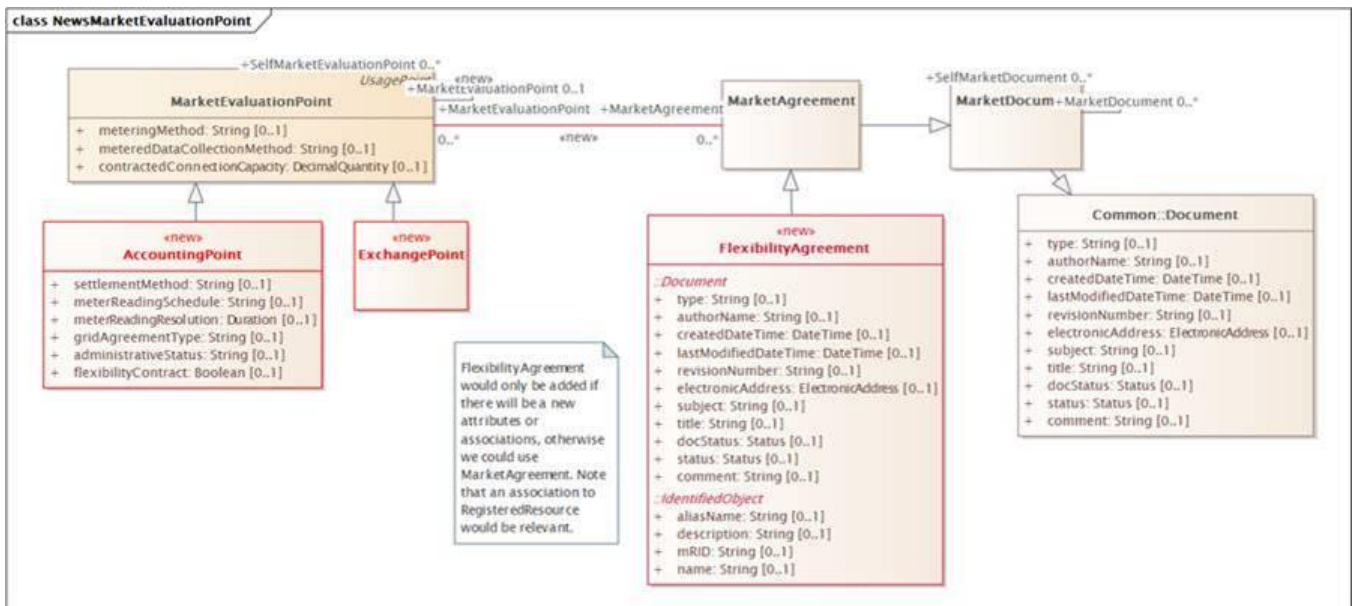
Conclusion:

- The participants at the meeting think renaming of the attribute from "Disconnectable Contract" to "Flexibility Contract" is a good idea - keeping it as a Boolean.

- It was added a comment in "BRS for Alignment of AP characteristic" that "Disconnectable Contract" should be renamed to "Flexibility Contract" next time we update the BRS.

Item closed.

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

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	• The content of the BRS is moved to a separate UseCase in BRS for Measure for Billing.
2.	BRS for Measure for Billing	**20211209:** Published at www.ebix.org	• Finished
3.	BRS Validated measured data	**20220124:** • Sent to ebIX® Forum for 4 weeks of approval, until **Friday February 18th, 2022.**	•

Measure BRSs			
#	BRS	Status	Comment
4.	BRS for Measure for Collected Data	**20200402:** • Published at www.ebix.org.	First RtR review finished. **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 Meter Read	**20220124:** • Will be sent on circulation for comments to EBG for two weeks before sent to ebIX® Forum for 4 weeks of approval. **20220209** • Sent to EBG and ebIX® Forum for approval until March 10th.	
6.	BRS for Measure for Imbalance Settlement	**20220124:** EBG/RtR review to start January 31st, 2022.	**20200615:** • Include handling of MR "NMEG 2020-01".
7.	BRS for measure for renewable energy certificates	**20220124:** • Sent to ebIX® Forum for 4 weeks of approval, until **Friday February 18th, 2022.**	
8.	BRS for Measure for Reconciliation	To be reviewed	**20210125:** • 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	**20210125:** • 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 24th, 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
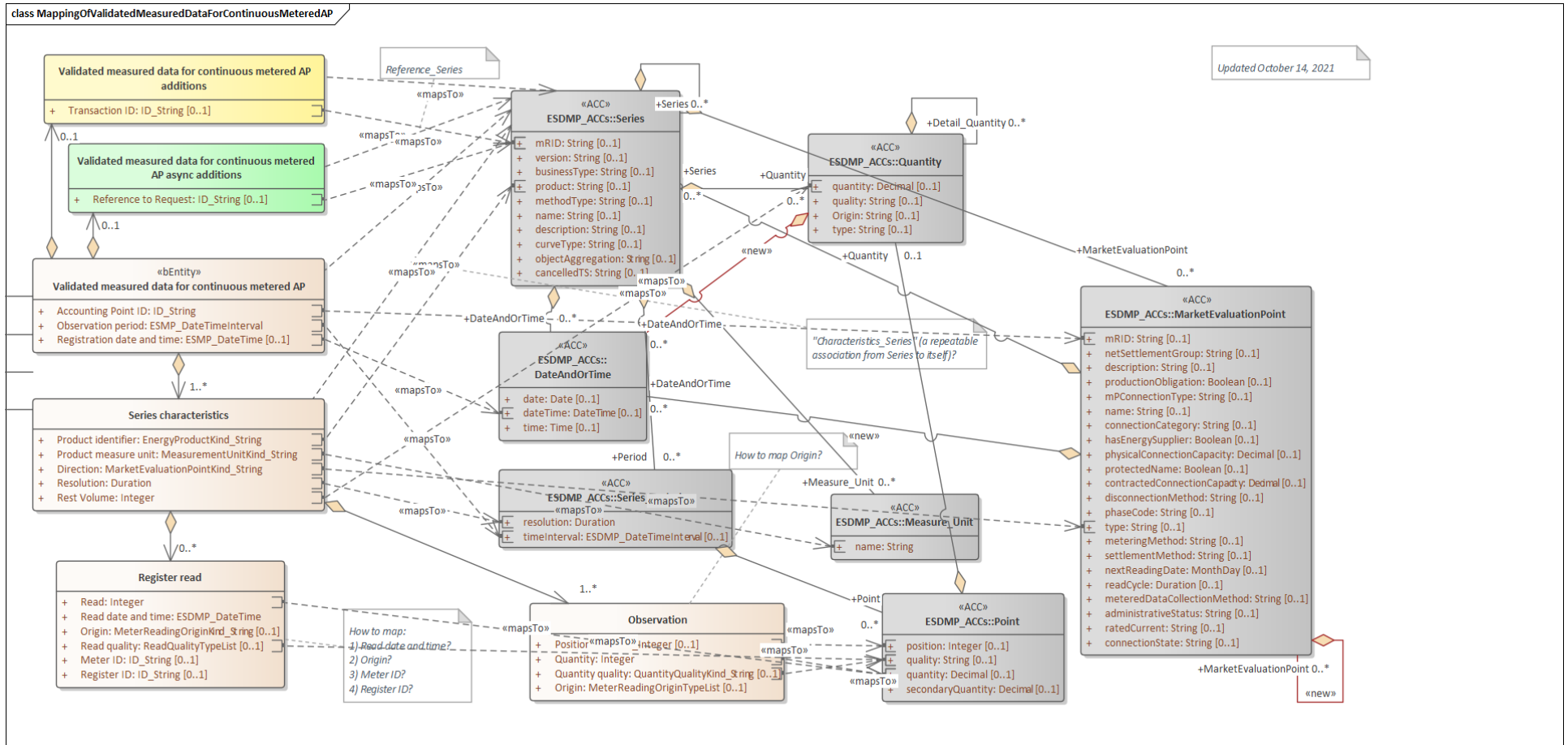
#	Project	EBG members	Status	Start	End
A)	RtR, Role-to-Role (hub)	All EBG	Start October 2018	Q4 2018	Q4 2021

B.3   Surveys

#	Survey	Status
A)		•

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.

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[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	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

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