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| Minutes EBG meeting |  European forum for energy Business Information eXchange |
| September 19 th , 2023 | EBG (ebIX® Business Group) |


Date: Thursday September 14th and Friday September 15th, 2023
Time: 09:00 - 17:00 and 09:00 – 15:00
Place: Energy Agency office, Strossmayerjeva ulica 30, Maribor, Slovenia


Present: Boštjan, Section IPET (SODO)
Gerrit, EDSN
Jan, Svenska kraftnät
Joachim, Westnetz
Ove, Edisys

Invited guests: Ana Vučina Vršnjak, Energy Industry Chamber of Slovenia (Thursday)
David Copič, section IPET (Thursday)
David, Slovenian Energy Agency
Tine, Slovenian Energy Agency
Janez, Slovenian Energy Agency

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:  2023 09 11 Submetering and sp See item 4, Short presentation of “Sub-metering” in Slovenia (Boštjan).

 PPT IPET Meeting in Slovenia 14 sep 2022: See item 5, Presentation from Energy Industry Chamber of Slovenia by Ana Vučina Vršnjak.

1 Approval of agenda

The participants introduced themselves.

The agenda was approved with the following additions:

- Review of published surveys to see if they still are valid, see item 13.
- Review of EG1 Change of supplier IA, see item 14.
- Request from ETC related to ebIX® MR 2023/016, see item 16.1 under AOB.

2 Approval of minutes from previous meeting

The minutes from previous meeting were approved.

3 Resolve matters related to close down of ebIX®

The agenda for the ebIX® Forum meeting September 20th was reviewed, without any comments.

The plan for close down of ebIX® was reviewed and some updates were done in the status column for EBG tasks. Among others it was agreed to verify if all published ebIX® surveys still are valid (see item 13 below) and to split off the measurement part of the “ebIX® BRS for Quantification and settlement of flexibility services” into a “separate BRS”.

Finally, the memo: “Consequences of closure of ebIX®”, were reviewed, however without any comments.

Actions:

- Ove will split off the measurement part of the “ebIX® BRS for Quantification and settlement of flexibility services” into a “separate BRS”.

4 Short presentation of “Sub-metering” in Slovenia (Boštjan)

Boštjan presented the status for sub-metering in Slovenia. This led to some discussions about linking sub-Accounting Points in serial metering or in parallel metering configuration.

Boštjan also presented the interface to the Slovenian hub, both seen from the customer side and the Energy Supplier side.

The presentation is embedded in the header of these minutes.

Item closed.

5 Presentation from Energy Industry Chamber of Slovenia by Ana Vučina Vršnjak

Ana presented the status for the energy sector in Slovenia.

The presentation is embedded in the header of these minutes.

Item closed.

6 Status for establishment of a German datahub (Joachim)

Joachim gave a brief status report for the status for a German datahub:

- The Hub-project team will next week have a meeting with the German regulator to get a support for continuing the work or preparing a German datahub.
- Among others it is being discussed how to do the implementation, such as starting with one or a few processes (such as metering) or making a complete datahub from the start.

Item closed.

7 Status for handover of “Alignment of master data for areas project” to ENTSO-E

Jon-Egil informed at a Nordic meeting in the end of August that start of the “Alignment of master data for areas project” is postponed until discussed and agreed in the joint wg between EU DSO Entity and ENTSO-E (JWG).

Apparently, this means that there is no time for ebIX® to participate before ebIX® closes down.

Item closed.

8 Making an introduction to the ebIX® BRSs

Comments in the document “Introduction to ebIX® BRSs” were reviewed, and it was agreed to update and republish the BRS for Validate and notify measured data

To remember items until we have finalised the Introduction to ebIX® BRSs:

- Ove will re-publish the following ebIX® BRS, based on comments during review of the Introduction to ebIX® BRSs:
 - Administration of consent
 - Change of Metered Data Responsible
 - Change of Supplier
 - Consented request for Accounting Point characteristics
 - End of Metered Data Responsible
 - End of Supply
 - Measure for determine and notify validated meter read
 - Validate and notify measured data

Action:

- Ove will send the Introduction to ebIX® BRSs to ebIX® Forum for four weeks of commenting before publishing it.

Item closed.

9 Review of ebIX® domain model (low priority item)

The ebIX® domain model was reviewed and updated.

Action:

- Ove will send the Domain model to ebIX® Forum for four weeks of commenting before publishing it.

Item closed.

10 Review of Appendix A EBG project and survey list

Appendix A, EBG project and survey list, was reviewed and updated.

11 Review of BRS for Settle for Reconciliation

The BRS for Settle for Reconciliation was briefly reviewed. It was once again noted that the BRS is difficult to understand. Further, the number of Accounting Points that are profiled is getting fewer every year and, in some countries, there are no profiled Accounting Points at all.

Action:

- Ove will add a note to the document at the ebIX® web site.

| | |
|---|--|
| Business Requirements Specifications for Settlement and reconciliation | |
| Note: This is an older document and some parts of it may be outdated. | |
| • ebIX BRS for Settle Reconciliation 1r0- | |

Item closed.

12 Mapping from ebIX® Class diagrams to CIM, see Appendix B

Appendix B was reviewed. Making the mapping, as shown in the class diagram in Appendix B, should be ETC responsibility.

When it comes to the definitions, we could make examples of how the definitions in ESMP could be made more understandable. We will try doing this at our coming GoToMeetings.

13 Review of published surveys to see if they still are valid

The published surveys were reviewed to see if they still are valid. Except for the ebIX® Study - multiple suppliers at one connection, all documents seem to be valid.

Action:

- Ove will republish ebIX® Study - multiple suppliers at one connection – both Word and PowerPoint versions.
- Add a “(see below):

| | | |
|--|---|--------------------|
| Survey DataHub v1r3 20220914.pdf | In spring 2019 the ebIX® member countries answered a questionnaire (see below) trying to find a good basis for the ebIX® Role-To-Role (HUB) Project and to get a common understanding of the meaning of a DataHub. The result was published June 7, 2019. In spring 2022 a new survey was sent to the ebIX® members, triggered by a discussion in Germany related to the possible introduction of a German datahub. | September 14, 2022 |
|--|---|--------------------|

14 Review of EG1 Change of supplier IA

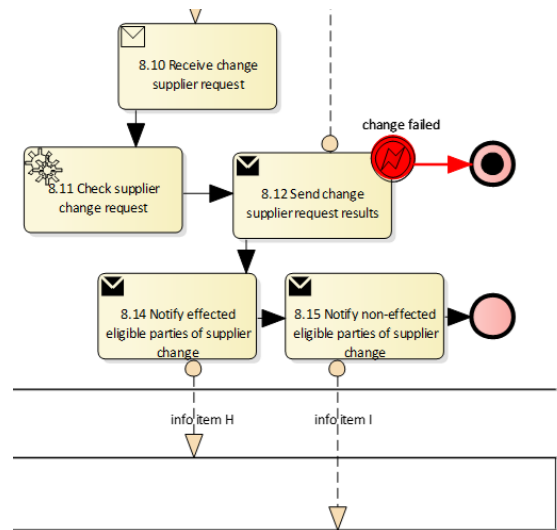
The latest draft IA for change of supplier was reviewed and a set of changes proposed, such as:

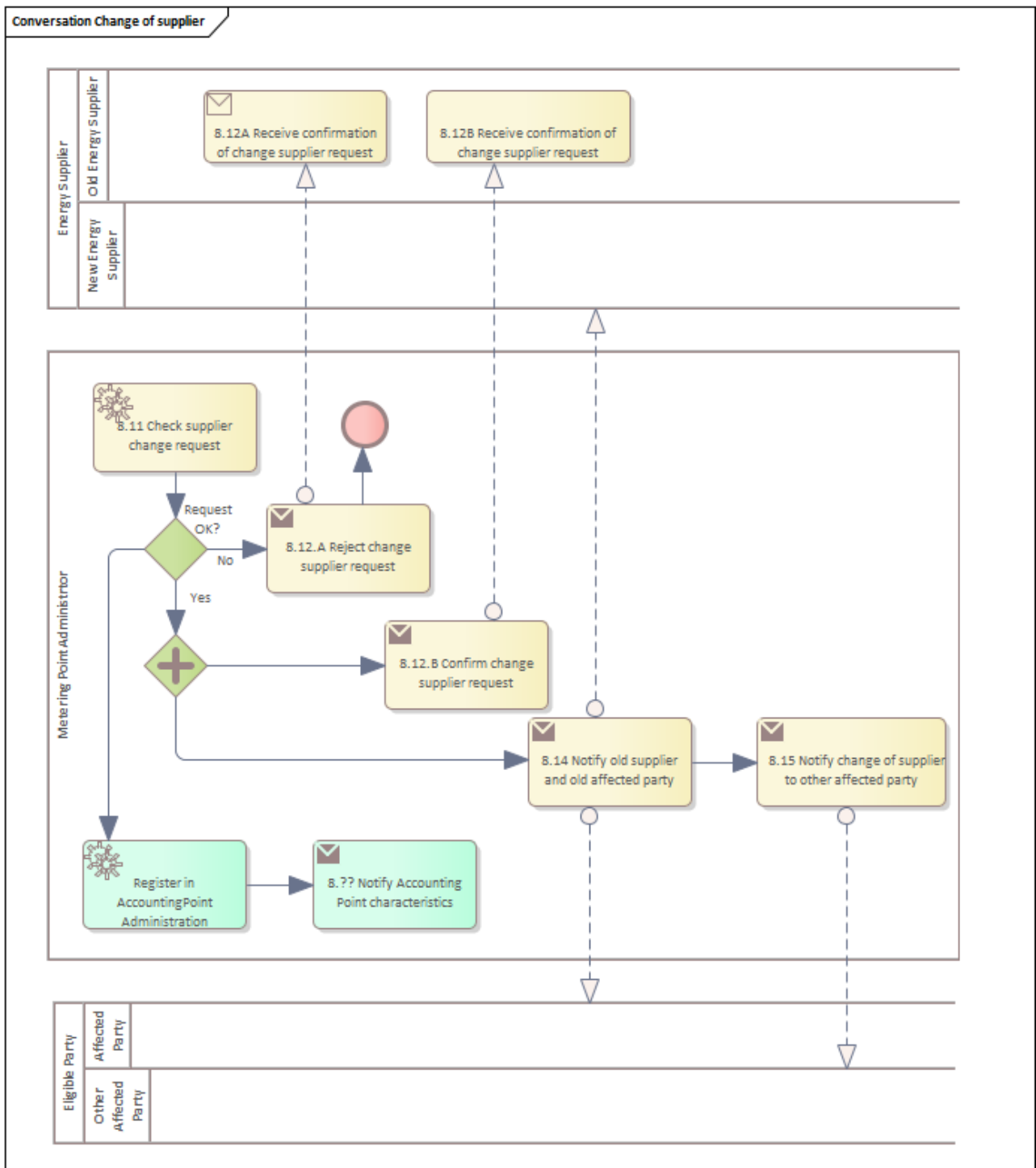
- “Check consent” was missing several places.
- Rename 8.12 to “Confirm request change of supplier”.
- Rename 8.14 to “Notify old supplier and old affected party”.
- Rename 8.15 to “Notify change of supplier to other affected party”.
- Add a decision after 8.11: “Request change OK?”.
 - If OK:

- Run 8.14
- Run 8.15
- Run the new 8.12
- Add new actions “8.9 Register in Accounting Point Administration” and add from there new actions “Notify Metering Point characteristics.”
 - If not OK:
 - Run new action “Reject request change of supplier” to new supplier and end the process,

The process is described like this in the current BPMN diagram (see right):

At the meeting, the following update was proposed:





Action:

- Jan will bring the proposal above to the EG1 WS dealing with the change of supplier process.

15 Meeting schedule

GoToMeetings:

- Every Monday until December 18th, 2023.

Physical meeting:

- Wednesday December 13th and Thursday December 14th, in Oslo.

16 AOB

16.1 Request from ETC related to ebIX® MR 2023/016

From ETC:

- We will ask in the EBG meeting next week if we need a Register Multiplier Kind in MR 2023/016 or if it is enough with the “Value: float” attribute. If needed, what Multiplier Kind is needed for a Meter and what Multiplier Kind is needed for a Register?

The question was discussed, and the conclusion was that we do not need the kind attribute, i.e. only the value attribute.

Item closed.

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 | 20230206: <ul style="list-style-type: none"> Started February 2023 20230914: <ul style="list-style-type: none"> Considered done |
| B) | 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 . EBG should start with a survey for the need of such a project. | To be decided by ebIX® Forum | 20230417: <ul style="list-style-type: none"> Not achievable. |
| 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 | 20230417: <ul style="list-style-type: none"> Not achievable. |
| D) | Making a BRS for alignment of Exchange Point characteristics | High | 20230417: <ul style="list-style-type: none"> Not achievable. |
| E) | Making an introduction to the ebIX® BRSs, including an overview of the BRSs and a short description. | In finalising RtR | 20230417: <ul style="list-style-type: none"> Is on next EBG agenda 20230914: <ul style="list-style-type: none"> Done |
| 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 | 20230417: <ul style="list-style-type: none"> If time item 20230914: <ul style="list-style-type: none"> See also row L) below |
| G) | Update of Gas Role Model with addition of Aggregated Reception Station, Calorific Value Area and Temperature Area for gas. | Low | 20230417: <ul style="list-style-type: none"> Inform the HGRM wg of the suggested domains. 20230914: <ul style="list-style-type: none"> Done |
| 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 | 20230417: <ul style="list-style-type: none"> TBD 20230914: <ul style="list-style-type: none"> In progress |
| I) | Verify extensions to the definitions of roles with the group harmonising the electricity and gas markets role | Continuous | 20230417: |

| # | Project description | Priority | Start |
|----|--|--------------|--|
| | models before adding the extension to the role definitions in a BRS to include gas. | | <ul style="list-style-type: none"> When updating role definitions in BRSs |
| J) | Review of BRS for Settle for Reconciliation, ref. minutes from EBG meeting October 10 th , 2022. | Low | <p>20230417:</p> <ul style="list-style-type: none"> At least to consider during handover to EU DSO Entity. <p>20230914:</p> <ul style="list-style-type: none"> We will keep it as is |
| 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 | <p>20230426:</p> <ul style="list-style-type: none"> If time <p>20230914:</p> <ul style="list-style-type: none"> Considered done |
| L) | Mapping from ebIX® Class diagrams to CIM, see Appendix B | If time item | <p>20230821:</p> <ul style="list-style-type: none"> For review at next physical EBG meeting in September 2023 See also F) above |

A.2 Approved (and running) projects

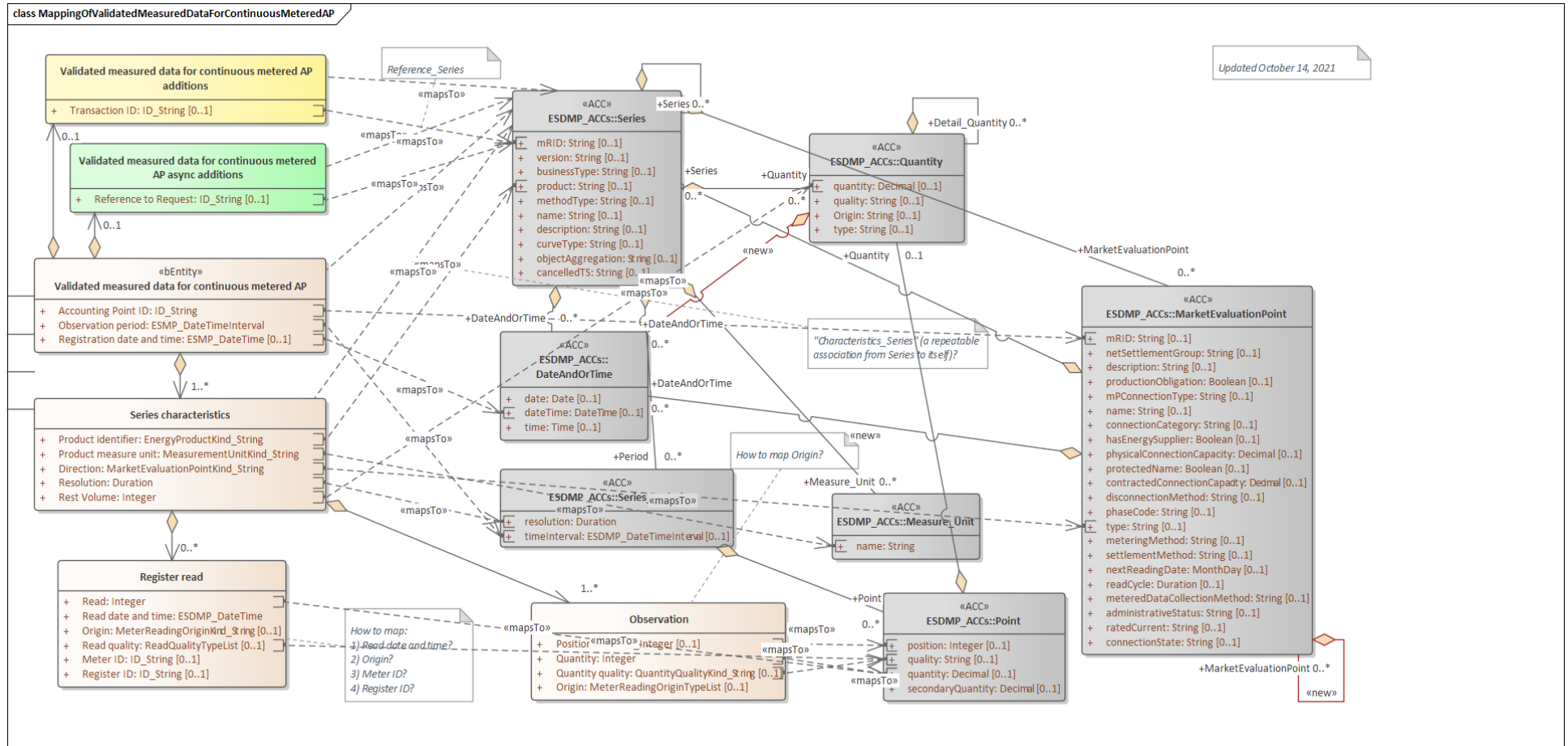
| # | Project | Members | Status | Start | End |
|----|-----------------------------------|---|--|----------------------|-----|
| A) | Common energy market area project | <p>EBG: Bartosz, Boštjan (?), Gerrit, Kees and Ove.</p> <p>“External”: Douglas (ENTSOG), Jon-Egil (ENTSO-E/CIM EG) and ? from EU DSO Entity</p> | <p>20230914:</p> <ul style="list-style-type: none"> Too late for ebIX® to join the project | 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. |

| BRS attribute | BRS definition | CIM attribute | CIM definition |
|---------------|--|------------------------------|--|
| Direction | <p>A code specifying the direction of the energy flow that was measured with this validated measured data.</p> <p>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.</p> | MarketEvaluationPoint / type | Specifies if the Market Evaluation Point is an Exchange Point or an Accounting Point. |
| Resolution | <p>The resolution is the time between two observations, leading to the number of observations in this timeseries (calculated from the Observation Period divided by the Resolution).</p> <p>The Observation Period must contain a whole number of observations as derived from the resolution.</p> <p>The resolution is expressed in compliance with ISO 8601 in the following format:</p> <p style="text-align: center;">PnYnMnDTnHnMnS.</p> <p>For example PT15M for 15 minutes resolution.</p> | Series / resolution | The number of units of time that compose an individual step within a period. |
| Rest Volume | The Rest Volume is used for a volume that cannot be related to the 'normal' measured time series observations, i.e., the difference, for the Observation Period, between the start- and end meter read and the aggregated volume from the exchanged time series. | Quantity / quantity | <p>The quantity value.</p> <p>The association role provides the information about what is expressed.</p> |
| Register read | A read from the register of the Meter linked to the Accounting Point and characteristics of the read. This read is at the basis of the validated measured data in the Observation. | N/A | |

| BRS attribute | BRS definition | CIM attribute | CIM definition |
|--------------------|---|------------------|--|
| 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 | |
| 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 | |

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 |
|---|---|---------------|--|
| 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... → quality Maps To Position → position Maps To Quantity → quantity | | | |
| 2 Register read | | | | Maps To Read → quantity Maps To Read ... → quality | | | |
| 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 | |