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| Minutes EBG meeting |  European forum for energy Business Information eXchange |
| January 4 th , 2021 | EBG (ebIX® Business Group) |

Date: Monday, January 3rd, 2022

Time: 14:00 – 15:30

Place: GoToMeeting

Present: Boštjan, SODO
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.

2 Approval of minutes from previous meeting

The minutes from previous meeting were approved.

3 Alignment of master data for areas project

Noting new. It is not expected any news before end of January or beginning of February.

4 Final review of BRS for Measure for renewable energy certificates (earlier BRS for Measure for Labeling)

Ove had as action looked for a better term for “Delivered quantity” – something meaning “quantity from Resource with renewable certificates”. The suggestion was to rename “Delivered quantity” to “Certificate entitled quantity” or “Certificate eligible quantity”. However, during the meeting it was decided to keep the name “Delivered quantity”.

Ove had investigated older AIB documents to see if Meter ID and Register ID is used there, however without finding any usage of Meter ID and Register ID. Ove had also checked the latest AIB [EECS CMO-CMO Exchange v.71](#) and the only identification is the Production device ID. During the meeting it was decided to remove the Register and keep the Meter with a cardinality of [0..*].

Action:

- Ove will send the BRS to EBG for two weeks of commenting before it is sent to ebIX® Forum for final approval and publication.

5 Start review of BRS for Determine Meter Read

The review of BRS for Determine Meter Read was started, i.e. the introduction part was aligned with the other updated measure BRSs and the sequence diagram in the overview chapter was updated.

Action:

- Ove will rename the text “Master Data documents” at the document page of the ebIX® web site to “Documents for the structuring phase”.
- Ove will clean up the BRS and send it to EBG before next meeting.

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

The item was postponed.

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

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 | <p>Finished</p> <p>To remember: Review of MR NMEG 2021/2 – Addition of a Supply Start Date to the AP Administrative Characteristics class,</p> <p>To remember: Review of MR NMEG 2021/3 – Addition of a Reporting resolution and Reporting Interval to the AP Administrative Characteristics class.</p> <p>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.</p> |
| 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 | <ul style="list-style-type: none"> The content of the BRS is moved to a separate UseCase in BRS for Measure for Billing. |
| 2. | BRS for Measure for Billing | 20211025: <ul style="list-style-type: none"> Draft for version 3.1.A, which includes a UseCase for “Publish established calorific values”, will be sent to EBG for 14 days (before sent to ebIX® Forum for final approval for four weeks – Until January 9th, 2022. | 20211025: <ul style="list-style-type: none"> Services, such as flex-services, is expected added in the next version of the BRS (v3.2). Addition of flex-services includes addition of a Resource ID to the class diagram(s) and extension of the Basic assumption chapter. |

| Measure BRSs | | | |
|--------------|---|---|---|
| # | BRS | Status | Comment |
| 3. | BRS Validated measured data | 20211129: <ul style="list-style-type: none"> Final review by EBG/RtR. | 20211129: <ul style="list-style-type: none"> The BRS will be sent for review by EBG (14 days) before sent to ebIX® Forum for final approval. |
| 4. | BRS for Measure for Collected Data | 20200402: <ul style="list-style-type: none"> Published at www.ebix.org. | Finished. The BRS may be used as a template for how the Measure BRS may look like. 20200608: <ul style="list-style-type: none"> “Collected Data” should be renamed to “Collected <i>Measured</i> Data” 20220104: <ul style="list-style-type: none"> The BRS need a layout update, incl. renaming of the term “negative response” to “Rejection”. |
| 5. | BRS for Measure for Determine Meter Read | 20220103: RtR Review started | 20210125: <ul style="list-style-type: none"> Investigate the need for addition of MDR and MGA in the “root class”, ref Dutch requirements. |
| 6. | BRS for Measure for Imbalance Settlement | To be reviewed | 20200615: <ul style="list-style-type: none"> Include handling of MR “NMEG 2020-01”. 20210125: <ul style="list-style-type: none"> Investigate the need for addition of MDR and MGA in the “root class”, ref Dutch requirements. |
| 7. | BRS for measure for renewable energy certificates | <ul style="list-style-type: none"> Review started at GoToMeeting February 17th; | 20210125: <ul style="list-style-type: none"> Investigate the need for addition of MDR and MGA in the “root class”, ref Dutch requirements. 20211011: <ul style="list-style-type: none"> Renamed from “BRS for Measure for Labeling” |

| Measure BRSs | | | |
|--------------|------------------------------------|----------------|--|
| # | BRS | Status | Comment |
| 8. | BRS for Measure for Reconciliation | To be reviewed | 20210125: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 24 th , 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

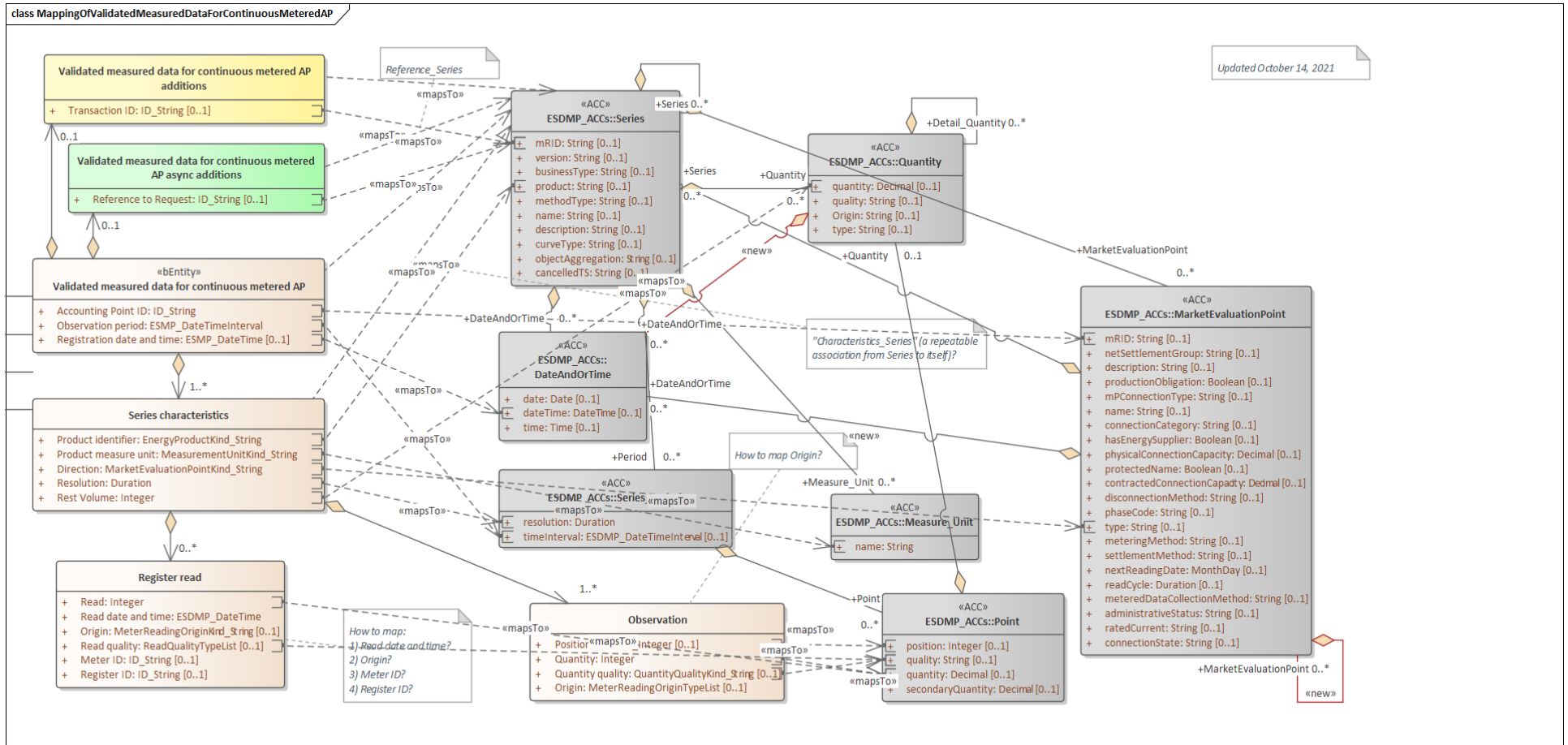
| # | Project | EBG members | Status | Start | End |
|----|-------------------------|-------------|--------------------|---------|---------|
| A) | RtR, Role-to-Role (hub) | All EBG | Start October 2018 | Q4 2018 | Q4 2021 |

B.3 Surveys

| # | Survey | Status |
|----|--------|--------|
| A) | | • |

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 | <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 | |
| 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. |

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 | <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. |

| 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 | <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

| Source \ Target | 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 ... → quantity | | | |
| 3 Series characteristics | | Maps To Direct... → type | Maps To Produ... → name | | Maps To Rest V... → quantity | Maps To Produ... → product Maps To → | Maps To Resol... → resolu... |
| 4 Validated measured dat... | Maps To Regist... → dateTi... Maps To Accou... → mRID | | | | | Maps To → | Maps To Obser... → timel... |
| 5 Validated measured dat... | | | | | | Maps To Trans... → mRID Maps To → | |
| 6 Validated measured dat... | | | | | | Maps To → Maps To Refer... → mRID | |

