Minutes ETC meeting, December 14th, 2022

Date: December 14th, 2022
Time: Wednesday 10:00 – 12:00 and 13:00-15:00
Place: GoToMeeting

Present: Jan (NL), EDSN
                Jan (SE), Svenska kraftnät
                Ove, Edisys

Appendix A: ebIX® rules for how to make MRs to WG16

Attachment:

1. Appendixes for ETC minutes (docx)
2. ETC workplan (see ebIX® file manager at https://filemanager.ebix.org/#)

1   Approval of agenda

The agenda was approved.

2   Approval of minutes from previous meeting

The minutes from previous meeting were approved after correction of two spelling errors and addition of paragraph header "4.1.1.1 Source and target for associations according to UML and CCTS between basic CIM (301) and ESMP (351)".

3   Status for a common ebIX®, EU DSO Entity, ENTSO-E (CIM EG) and ENTSOG Area project

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

Name	Company	Representing	Comment
~~Bartosz Kwiatkowski~~	~~PSE~~	~~ebIX®~~	Will change job from January 1st, hence he will not be able to participate in the project
Douglas Hill	ENTSOG	ENTSOG (observer)	
Gerrit Fokkema (Convenor)	EDSN	ebIX®	
Jan Owe	Svenska kraftnät	ebIX® or ENTSO-E	Observer
Jon Egil Nordvik	Statnett	ENTSO-E/CIM EG	
Kees Sparreboom	TenneT	ebIX® or ENTSO-E	

Ove Nesvik (Secretary)	Edisys	ebIX®	
Pamina Samarasuriya	Energinet	???	Want to participate as observer
?	?	EU DSO Entity	

The following invitation was sent to the members during previous week's EBG meeting:

We suggest running the meeting on every second Tuesday mornings 10:00 to 12:00, starting with a kick off on Tuesday January 17th.

An alternative could be every second Thursday morning, also from 10:00 to 12:00, starting with a kick off meeting Thursday January 26th.

Please let us know as soon as possible, and **latest by the end of this week**, if any of these time slot fits your calendar.

We suggest the following agenda for the kick off meeting:

1. Welcome and brief introduction of project members
2. Review of project plan
3. Agree the way of working and meeting schedule, including discussions if the meeting shall be on-line meetings and/or physical meetings
4. Start on the Business Requirements (BRS) for alignment of MGA characteristics.

4 Resolve ebIX®/IEC issues

4.1 Making a European Style Downstream Market Profile (ESDMP)

4.1.1 MRs to WG16 CIM modelling team and Information from IEC meetings

MRs to WG16 and their status are found in a separate document "MRs from ebIX to WG16". The document can be downloaded from the ebIX® File Manager.

Minutes from WG16 meetings can be found at: WG16 / Modelling-Team-Minutes.

Jan (SE) informed that WG13, WG14 and WG16 are discussing if the default data type for mRID should be a UUID. It was stressed that this will be an issue for existing implementations where we for instance use VAT number for company IDs and social security number for persons.

Continued action:
- Jan (SE) will ask Alvaro if the aggregations with wrong source/target should be updated, such as the aggregation from TimeSeries to FlowDirection.

4.1.2 MRs based on Dutch requirements

Continued actions:
- Kees will add a MR to the series of other MRs that will be sent from ebIX® based on the Dutch requirements for changing the cardinality of the association between Acknowledgement_ MarketDocument and Sender_MarketParticipant/Receiver_MarketParticipant from mandatory [1] into optional [0..1].
- Kees will try to come up with a refined table showing the Dutch MRs, including examples.
- Kees will investigate the usage of a reference to a related document (probably only used in the acknowledgement in the Netherlands) and see if he can find a justification of the "rename of the association named Original Market Document to something more generic".
- Jan (NL) and Kees will go through the Dutch MRs and see if more of the MRs are MRs to 62325-351 (ESMP).

- Jan (NL) will investigate if the attributes measureUnit and priceMeasureUnit should be associations to the Unit class in 301 (MeasureUnit class in ESDMP) instead of attributes in the Product class. According to Kees the measureUnit and priceMeasureUnit should be attributes in the Product class because of normalisation rules.
- Jan (NL) will find a better justification for a MR for the new class Product (ebIX®/2021-035).
- Jan (NL) will investigate if the attributes measureUnit and priceMeasureUnit should be associations to the Unit class in 301 (MeasureUnit class in ESDMP) instead of attributes in the Product class. According to Kees the measureUnit and priceMeasureUnit should be attributes in the Product class because of normalisation rules.

Jan (NL) is working on finding what MRs to submit to the Retail market WG and IEC. However, it is clear that the number of MRs will be reduced. To be continued.

4.1.3   Review of non-submitted MRs from the ETC Excel sheet - focus item

Based on "Suggestions from TR 62325-103 yet to be handled status 2022-06-22.pdf" from Jan (SE).

- At an AccountingPoint you can have values of different kind, such as Active Energy, Reactive Energy, …
  - Proposal: Add a Product class, with Product type and a Measure unit and associate it with TimeSeries, MarketEvaluationPoint and RegisteredResource.
  - Currently added to the "ebIX® Excel sheet" as ebIX® MR 2021/035

Action:

- Ove will make MRs to send to EBG before submission to ENTSO-E retail market group:

  - 2022/026: Add the attribute VATobliged (Boolean) to ChargeType in 62325-301 and 62325-351.
  - 2022/035: Add the attribute VATlevel (String (may be a percentage or low/high…)) to ChargeType in 62325-301 and 62325-351.
  - 2022/025: Add an association from ChargeType to Period (62325-301) and from ChargeType to Series_Period (62325-351)
  - 2022/024: Add an association from ChargeGroup to ChargeType in 62325-351.
  - 2022/023: Add an association from ChargeType to MarketParticipant in 62325-301 and 62325-351.
  - 2022/022: Add an association from Series to ChargeType in 62325-301 and 62325-351.

4.1.4   Status for governance of reference models: basic IEC CIM and ESDMP (follow-up item on the agenda)

Alvaro is maintaining the latest version of the ESMP, based on decisions in CIM EG. Hence, these updates are extensions to the CIM 62325-351 standard. Currently the ESDMP is maintained by ETC.

It was noted that there is a new version of ESMP at the ENTSO-E intranet – from 9th of December. However, this is not based on the latest version of CIM62325.

4.1.5   Suggestions from TR 62325-103 yet to be handled

The item was move to (merged with) item 4.1.3 above.

4.1.6   Not yet mapped attributes from the BRS for Alignment of metering configuration characteristics

Continued action:

- Ove will make a mapping from the class diagram for metering configuration characteristics to CIM to discover need for MRs (low priority item).

4.2   Status for ENTSO-E CIM EG Retail market workgroup (follow-up item on the agenda)

4.2.1   MRs to ENTSO-E CIM EG Retail market workgroup

Ove had as action asked the following question to the Norwegian Energy Supplier Fortum (Torleif):

> Are there fuse sizes that need decimal places, such as "13.2A" - or is it always integer (10A, 16A, 20A....)?

With the following answer:

> Fuses have fixed values without decimal.

> Circuit breakers can (in theory) be adjusted with decimal places, but very rarely and most often for the protection of motors and equipment.

> So, the normal is that protection does not have decimal places.

Shall we send an MR to the Retail market workgroup asking for making a ESMP datatype for CurrentFlow of type integer?
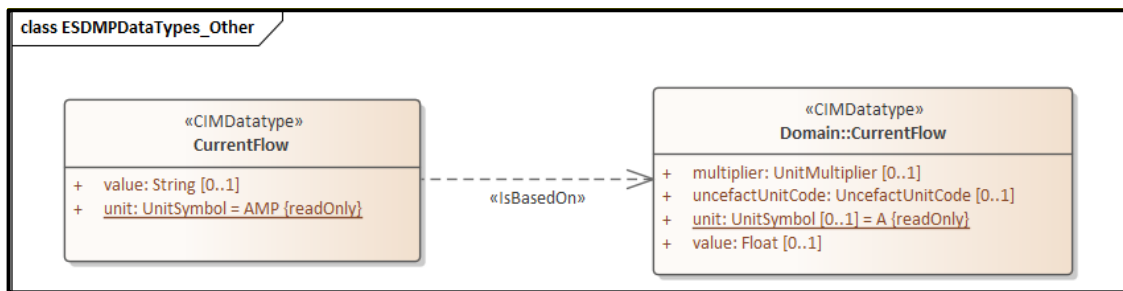
Action:
- Ove will make a first draft of a MR for addition of a ratedCurrent attribute to MarketEvaluationPoint class
  - And the related datatype for CurrentFlow. The Current Flow will be of datatype Integer and UnitSymbol will be fixed AMP (from UN/Recommendation 20).
- Ove will make a first draft of a MR for addition of phaseCount: Integer [0..1] to MarketEvaluationPoint in ESMP.

From Jan (SE) 20221207:

> At next ENTSO-E CIM EG Retail market workgroup meeting we can close some of the already agreed MRs.

> At least ebIX®/2022-028, 031, 033 and 034. Some of others will be discussed in ebIX® next week.

> ebIX®/2022-017 + 029 will be discussed in WG16.

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> Below is the status of MRs sent to the Retail Group - also updated in the Excel file via Teams:

>> o   ebIX®/2022-017: connectionState, agreed in the Retail group, but ebIX 2022-029 needs to solved first, will be brought to WG16, see further below.

o ebIX®/2022-027: DirectionType, discuss in ETC and update the MR (Consumption, Production, Combined - and usage of direction? UP/DOWN...)

From discussion:
- Jan (SE) informed that Denmark is using an extended code list for the MeteringPointType, see figure to the right.
- The current proposal from CIM retail market WG is changing the MR ebIX®/2022-017 to addition of a new attribute to the MarketEvaluationPoint class instead of extending the current DirectionType enumeration.
- Jan (NL) suggested the name energyDirectionCategory for a new attribute:

«Enumeration» MeteringPointTypeList
- «enum» Consumption
- «enum» Production
- «enum» Combined
- «enum» Exchange
- «enum» VE production
- «enum» Analysis
- «enum» Not used
- «enum» Surplus production group 6
- «enum» Net production
- «enum» Supply to grid
- «enum» Consumption from grid
- «enum» Whole sale services / information
- «enum» Own production
- «enum» Net from grid
- «enum» Net to grid
- «enum» Total consumption
- «enum» Net loss correction
- «enum» Electrical heating
- «enum» Net Consumption
- «enum» Other Consumption
- «enum» Other Production
- «enum» Exchange - Reactive energy
- «enum» Internal use

Conclusion:
- We suggest changing the MR ebIX®/2022-017 to add a new attribute to the MarketEvaluationPoint class instead of extending the current DirectionType enumeration, to 62325 and ESMP.
  - Name energyDirectionCategory
  - Data type will be an enumeration, among others containing consumption, production and combined.

Action:
- Jan (SE) and Ove will ask EBG for comments to the proposal of changing the MR ebIX®/2022-017 to add a new attribute to the MarketEvaluationPoint class instead of extending the current DirectionType enumeration, to 62325 and ESMP.
  - Name energyDirectionCategory
  - Data type will be an enumeration, among others containing consumption, production and combined.

o ebIX®/2022-028: SettlementMethod, supposed to be closed at next Retail group meeting (agreed).

o ebIX®/2022-029: UsagePointConnectedKind, agreed in the Retail group, but needs to be discussed in WG16 how to handle the already existing enumeration in CIM?

o ebIX®/2022-030: GridAgreementType, discuss in ETC, add a class "ContractualAgreement" between MarketEvaluationPoint (AccountingPoint) and MarketParticipant?

Check which codes of the four that actually are in use.

From discussion:
- We believe all four codes are in use.
- We do not think the usage of an association to MarketParticipant and/or MarketRole will simplify – probably complicate.
- It is an option to add a new attribute gridAgreementCategory to the MarketAgreement class – this may be more flexible for the future:
  - There is already an inherited association between MarketAgreement and MarketParticipant
  - There is an association between MarketEvaluationPoint and MarketAgreement.

Action:
- Jan (SE) will bring the comments to ebIX®/2022-030 regarding GridAgreementType to the ENTSO-E retail market WG.

o ebIX®/2022-031: AdministrativeStatusType, supposed to be closed at next Retail group meeting (agreed).

- ebIX®/2022-032: MeasurementMethod, agreed (after removal of E21), but the usage of E16/E24 needs to be investigated and described - what is the difference between "Calculated" and "Not metered"? Make examples. Suggests update of the descriptions. To be discussed in ETC.

  From discussion:
  - The definitions of MeasurementMethod codes E16/E24 were updated.

  Action:
  - Jan (SE) and Ove will ask EBG to review the update of MeasurementMethod codes E16/E24. Thereafter Jan (SE) will bring the comments to the ENTSO-E retail market WG.

- ebIX®/2022-033: MeteredDataCollectionMethodType, supposed to be closed at next Retail group meeting (agreed).
- ebIX®/2022-034: DisconnectionMethodTypeList, supposed to be closed at next Retail group meeting (agreed).

4.3   Preparations for coming WG16 meetings

The ETC position regarding the UUID discussions within WG16 is that we want the mRID to be a string also in the future. If the datatype should require a UUID should be specified by the profiles and not in basic CIM.

4.4   Status for European (ebIX® and CIM EG Retail market workgroup) MRs to CIM

Review and update of Excel sheet keeping track of the MRs sent from ebIX®, via the CIM EG Retail Market workgroup to WG 16. The Excel file is uploaded to the Teams "Team" "ebIX® ETC" where Jan (NL), Jan (SE), Kees and Ove can edit the document simultaneously.

Jan (SE) had as action updated the dates and status for the latest submitted MRs in the common Teams Excel sheet.

5   EG1 status

Nothing reported.

6   Resolve HG issues - Prioritised item on ETC meeting September 27th

6.1   BRP vs Energy Trader

Now a Trade Responsible Party inherits from a BRP, which means that he inherits all the characteristics of the BRP. However the Trade Responsible Party has always a "balance position", i.e. not dealing with physical energy. Hence, we suggest turning the direction of the generalisation.

In addition we suggest a rephrasing of the definition of the Trade Responsible Party:

> A party who can be brought to rights, legally and financially, for any financial imbalance within a given imbalance settlement period between energy nominated and consumed for all associated Accounting Points.
> **Note:**
> A power exchange without any privileged responsibilities acts as a Trade Responsible Party.

Continued action:

- Kees and Jan (SE) are asked to verify the proposal above within TenneT and Svenska kraftnät.

6.2   Status for harmonisation of the electricity and gas markets role models

The interim report from the HEMRM/HGRM group has been published at the ebIX®, ENTSO-E, EASEE-Gas and ENTSOG web sites.

6.3   Suggestions for HEMRM extensions

The intention with this item is to describe the roles not suitable for HEMRM / HGRM, such as Hub, DSO, TSO etc.

Continued action:

- Kees will try to make the table below more "understandable":

Business roles	Implementation-dependent roles	Roles linked to physical devices
HRM / GRM This is already available in the present HRM and GRM (maybe with the exception of the meter-related roles which may have to be moved to the physical devices)	Exchange architecture: • Document exchange • Web service • Data sharing	
	System/device roles	

The item was postponed.

7   ebIX® Business Information Model 2022.A

7.1   Use of XOR in combination with cardinalities

Continued action:

- Kees will make a proposal for update the "ebIX® introduction to Business Requirements and Information Models" with a chapter explaining the relationship between cardinalities and OR/XOR, including:

   o XOR and cardinality of [1] lead to a required choice in the XML schema.
   o XOR and cardinality of [0..1] lead to an optional choice in the XML schema.

The item was postponed.

7.2   Continue review and update of version 2022.A

Review of proposed updates in Appendix A and Appendix B in the separate appendix document.

The item was postponed.

8   Next meetings[1]

- January 18th, 10:00 – 12:00 and 13:00 – 15:00, 2023, GoToMeeting
- February 14th and 15th, 2023, Amersfoort
- March 30th, 10:00 – 12:00 and 13:00 – 15:00, 2023, GoToMeeting

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[1] All Face-to-face meeting starts 09:00 the first day and end at 16:00 unless otherwise explicitly stated.

9 AOB

No items.

Appendix A   ebIX® rules for how to make MRs to WG16

1) Artefacts used for MRs to WG16 shall be stored as separate packages in the common cloud EA model.

2) Always review existing definitions of attributes, classes etc. that are related to the MR in question and if needed propose updates to these definitions.

3) First investigate basic CIM to see if the object we intend to send an MR for already is available there.

   If yes, we should make a MR for 62325-351 (ESMP), if not we make a MR for both basic CIM and ESMP.