Minutes ETC meeting, June 5th, 2020



European forum for energy Business Information eXchange

June 15th, 2020

ETC – ebIX[®] Technical Committee

Minutes ETC meeting, June 5th, 2020

Date:	Friday June 5th, 2020				
Time:	10:00 - 12:00				
Place:	GoToMeeting				
Present:	Fre, TenneT				
	Jan (NL), EDSN				
	Jan (SE), Svenska kraftnät				
	Kees, TenneT				
	Ove, Edisys				

Appendixes: Appendix A, MRs for WG16 Appendix B, Status for new BIMs from EBG Appendix C, Proposed/agreed changes to the ebIX[®] Business Information Model 2019.A Appendix D, Suggestions for handling renaming MP-terms into AP-terms

Attachment: ETC workplan (see ebIX[®] file manager at <u>https://filemanager.ebix.org/#</u>)

1 Approval of agenda

The agenda was approved with the following additions:

- BRP vs Energy Trader, see item 6.2;
- Issues with the HRM module of the ebIX[®] model, see item 6.3;
- Information: ebIX (EBG) update principles for BRSs, see item 12.1 under AOB;
- DB Energie GmbH: How to handle "Replace messages" (updates), see item 12.2 under AOB.

The first 15 minutes of the meeting were used to go through the agenda items and discuss the items that could be handled quickly. The rest of the meeting were mainly spent of item 3.1, including reports from Dutch and Nordic CIM projects for the downstream market.

2 Minutes from previous meeting

The minutes from previous meeting were approved.

3 Resolve ebIX[®]/IEC issues

3.1 Making a European Style Downstream Market Profile (ESDMP)

In the Netherlands there are "Issue committees" dealing with issues of different types. Among others Keesand Jan (NL) are participating in a working group making a BRS based on textual results from these Issue committees. The BRS will end up with two basically different clusters, i.e. meter stands and volumes, and time series. The most detailed part of the BRS is the class diagrams – no mapping to xml schemas. The BRS is expected finalised end of June. It is expected that the xml schemas must be finished by end of August.

Jan (SE) presented how far the Nordic CIM project has come. The Nordic project has for instance made packages with extensions, such as

- To the core CIM model at the top level (Model level), mainly based on ebIX[®] MRs to CIM;
- At the "ProfilesIEC62325" package level it is made an ebIX[®] package for message assembly (ABIEs);
- At the EuropeanStyleMarketProfile level it is made extensions to the ESMP packages, such as extended ACCs, data types and enumerations.

It was noted that the Nordic extension to the "ProfilesIEC62325 package" probably should have been a new profile package "European Style Downstream Market Profile" (ESDMP).

Kees explained that when generating xml schemas, the Netherland expect to generate the xml schemas like how ebIX[®] does it today, i.e. like:



Here the root element is the «MA» and not header (as opposite to ENTSO-E where the root element is the MarketDocument). This makes it possible to easily create different headers for different types of implementations.

Also, how to deal with enumerations was discussed. It was agreed that the enumeration literals should be maintained in a separate xml schema and not as a part of the documents. During the meeting, Jan (SE) tested the option in CIMSyntaxGen for generating code lists from the EA model, and it seems to work. However, with hardcoded ENTSO-E header in the code list schemas.

Kees mentioned that the Netherlands intend to make a separate package, in parallel with ESMP, with the European Style Downstream Market Profile, as proposed above for the current Nordic test.

3.2 Energy Supplier and related Supply Start Date

Due to lack of time, the item was postponed.

3.3 Status for MRs to WG16, see Appendix A

Jan (SE) had as homework from previous meeting asked WG16; what are the rules, and where do we find them, for Association end/role names, with the following answer:

• From Becky:

"End role association names are typically the class name, but if needed to represent a specified use case, they may be a different name."

"If there is a requirement to have two associations between the same two classes, the requirement is that they "must" have different end role association names. And there are many cases in the CIM where this can be seen."

• From Greta:

"I recall that IS 62325-450 methodology explains how to use qualifier to specify the name of the link for the data exchange.

For you message profile (ABIE) you can add different qualifier depending on the information you want to exchange, and you could also add multiple link depending on needs."

- In addition, Jan has noted:
 - "If we want to have more than one association between two classes in basic CIM, that should represent specific use cases. E.g. some use cases will describe "MarketEvaluationPoints" associated with one or more "MeteringGridAreas", other use cases will describe "MarketEvaluationPoints" associated a "CalorificValueArea" and vice versa, and there are similar associations in other use cases. However, since new use cases, not yet fully described in BRS:s, will need similar associations, e.g. new roles or areas associated to a MarketEvaluationPoint, a generic solution could be to have a "generic" association in basic CIM, but "specific" associations in a profile. E.g. associating a Balancing Service Provider to an Accounting Point (when needed) could still be between "MarketParticpant" and "MarketEvaluationPoint" in basic CIM, but between a "BalancingServiceProvider" and "MarketEvaluationPoint" in a Profile because that would be related to needs in Europe and therefore described in a European profile.
 - However, in ESMP the latter is not the current case, that is not done until the "Contextual model" – and then using different qualifiers. The usage of qualifiers in ESMP is described in IEC 62325-450 that should be studied before going further with this issue."

Conclusion:

• The information above was taken ad notam - item closed.

Jan had noted that we in the future should complete with what still are valid from figure 122 from the TR:

Conclusion:

 Additions to MktActivityRecord was added to "Appendix A/A.4 Candidates for new MRs related to MktActivityRecord".



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Jan had also made a draft Maintenance request regarding adding Energy Label into CIM as a new class associated with MarketEvaluationPoint:

I would expect questions like "Why can't you use MktPSRtype?" In chapter 2.2 I give two reasons for that:

- 1) That class cannot tell both the fuel and the technology it would need to be extended with a new attribute.
- 2) That class is not associated with MarketEvaluationPoint.

However, Jan had noted that EnergyLabel maybe not is the best name. "Energy label" is a scale from A to G describing the energy efficiency of products like fridges, washing machines, lamps etc. Perhaps a class called "EnergyTechnologyAndFuel" would be better?

Conclusion:

- MRs ebIX[®] 2019/14 to ebIX[®] 2019/17 has been updated in [®]/A.2 and EnergyLabel will be replace with EnergyTechnologyAndFuel.
- Jan (SE) will submit the MRs.

Jan has also updated the Maintenance Requests regarding adding attributes to MarketEvaluationPoint and sent it to WG16 for their telco May 28th.

Conclusion:

• Appendix A is updated.

Jan and Kees have as homework from WG16/WG14 meetings investigated if it would work to use a possible new attribute in "EndDevice" called "isAMR" (a Boolean) instead of an attribute "meteredDataCollectionMethod" within MarketEvaluationPoint – and concluded that it does. In the figure below, there is still the old attribute meteredDataCollectionMethod (String) that is intended to be replaced with "isAMR" (Boolean). But since we in our ebIX[®] model only have two possible codes for the attribute, it would work with a Boolean.



Conclusion:

• Appendix A is updated.

Question:

• Should these be added to Appendix A?

ltem #	Date Requested	Class	Attribute	Description	Discussion Status	Model Status
16	3/5/2020 - Folsom	StreetAddress	MunicipalityDetail; use datatype of "TownDetail". Description "May be used for local addressing" TownDetail; Description update "Town detail.	Need to associate multiple towns with an address; question is how many; one or more, need to clarify the true/final requirements. Fulfills a need for multiple taxing entities per address.	Discussed in WG14 Jun 2nd Mtg: Proposal coming from Part 6	Next step, participate in joint virtual session where Part 6 will present their proposal.
17	3/5/2020 - Folsom	Person	streetAddress; datatype (StreetAddress) postalAddress; datatype (StreetAddress)	Add street address and postal address to the class Person.	Use of PersonRole could represent the various different types of Contacts (Person). Confirmed with Kees diagram. Discussed in WG14 Jun 2nd Mtg : Part 6 needs to provide a proposal	Next step, participate in joint virtual session where Part 6 will present their proposal.

The last question was postponed until next meeting.

3.4 Where to put the ebIX[®] element Energy Industry Classification Type (Electricity or Gas)?

Continued action:

• Jan (SE) will make an ebIX[®] MR to WG16 for addition of Energy Industry Classification Type (Electricity or Gas) to the Market Document class (or another class) in 62325.

3.5 How to add additions to CIM

Due to lack of time, the item was postponed.

3.6 How to associate readings (meter stands) with TimeSeries?

From Jan:

In November 2019, Jan (SE) sent us *Figure 3 Exchange Validated data for Billing assembly model*, see below, and he would like to continue the discussion: how can we associate the readings (i.e. the meter stands) with the Time Series?

But, before doing that, what is actually needed? According to <u>https://eur-lex.europa.eu/legal-</u> <u>content/EN/TXT/?uri=CELEX%3A32019L0944#d1e32-192-1</u> (EU 2019/944), there is no requirement to specify meter stands on an invoice.

Anyhow, if still to be sent, how can this be done using the (existing) classes in CIM?

- Using empty classes "Channel" and "ReadingType", as *Figure 3* shows, is not nice.
- Associating MarketEvaluationPoint with zero, one or more meters, and through MeterReading getting to the readings is another solution. See *Figure 1* The Demo ACC (1) below. However, then you don't identify the register. (And note: the class Reading within ESMP is missing some attributes specially the "value" attribute). Hence, Jan (SE) think the registers is more important than the Meter itself.
- Associating Meter with Registers is possible (through EndDeviceFunction), see *Figure 2* The Demo ACC (2).

So, based on these figures in CIM, you can realise that:

- For a MarketEvaluationPoint you can specify one or more registers.
- For each Register you can, when needed, specify the meter id (through EndDeviceFunction).

But how do you, in an easy way, specify the readings? The class ReadingType can, in detail (in a complex way) describe what has been read. But do we need it? Not in our UseCases.

If we only would need to specify one meter-stand per register, then we could do the opposite in our messages: tell the register for the meter-stand. (Like *Figure 2* below: tell what the meter for the register is). However, there is no direct association from Reading to Register. And if it was, we would have used it the other way around. Of course, we might ask WG16 to add such an association in the market part of CIM – or directly in WG14 part of CIM.

But, are there other solutions? That would not need to use these, perhaps complicated, classes and associations from WG14 part of CIM?



Figure 1 The Demo ACC (1)



Figure 2 The Demo ACC (2)



Figure 3 Exchange Validated data for Billing assembly model

In the Netherlands it is decided to split the time series and meter stand and volume in separate documents. Jan (SE) informed that in Sweden they combine time series with a meter stand.

To be continued.

4 Problems with TT (Eclipse)

Kees had as action contacted In4Mate asking if they have a solution for how to open Eclipse.

Ove informed that Paweł from In4Mate had been in contact several times, asking for config files, update of ".fileTableLock" etc. Latest response from Paweł was May 18th:

Dear Ove,

sorry for the late reply. I've checked my setup however i found it really hard to get old Eclipse and other components. I will try with the newest version and hope to let you know tomorrow.

Paweł

Action:

• Ove will send a reminder to Paweł at In4Mate.

5 Review of BIMs from EBG

See status in Appendix B.

Due to lack of time, the item was postponed.

6 Resolve HG issues

6.1 Status for new project for alignment of Area configuration

Kees is updating the project proposal with a limited trial with one ebIX[®] and one ENTSO-E area (MGA and Scheduling Area?)

6.2 BRP vs Energy Trader

Due to lack of time, the item was postponed.

6.3 Issues with the HRM module of the ebIX[®] model

How to keep the associations from the «BusinessPartner» when updating the HRM in the ebIX® model?

Action:

• Ove will make a test, i.e. update the ebIX[®] model with the latest HRM to see if the associations from the «BusinessPartner» still is working.

How to show which roles an «Initiator» or «Entitled Party» is a generalisation of?

The latter question was postponed.

7 Status for harmonisation of the electricity and gas role models

There has been a kick-off meeting for EG1 phase II, where a common (or aligned, or harmonised...) electricity and gas role model is on the agenda. Unfortunately, ebIX[®] is no longer an observer in the editorial team.

8 ebIX[®] Business Information Model 2019.A

8.1 Use of XOR in combination with cardinalities

Due to lack of time, the item was postponed.

8.2 Reporting interval

Due to lack of time, the item was postponed.

8.3 Comment to Settlement Method Code E15

Due to lack of time, the item was postponed.

8.4 Status for new code requests from UN/CEFACT

Kees had as action from previous meeting made DMRs to UN/CEFACT for new Role Codes:

- Party Administrator (**Z12**), with definition: "A party responsible for maintaining party characteristics".
- Calorific Value Responsible (**Z11**), with definition: "Calorific Value Responsible establishes the calorific value for a set of Metering points".
- Metered Data Administrator, with definition "A party responsible for storing and distributing validated measured data".

In addition, Kees had made a DMR for rename of Balance Power Supplier to Energy Supplier.

Action:

• Kees will submit the four DMRs to UN/CEFACT.

Item closed

8.5 Continue review and update of version 2020.A

Review of proposed updates in Appendix C and Appendix D.

Due to lack of time, the item was postponed.

9 Code lists from Magic Draw model in Word format

Due to lack of time, the item was postponed.

10 Review of ETC workplan

Due to lack of time, the item was postponed.

11 Next meetings

- Wednesday June 24th, 2020, 10:00 -11:30 and 13:00 14:30, GoToMeeting
- Tuesday August 25th, 2020, 10:00 -11:30 and 13:00 14:30, GoToMeeting
- Tuesday September 15th, 2020, 10:00 -11:30 and 13:00 14:30, GoToMeeting
- Wednesday and Thursday November 18th and 19th, 2020, BDEW's offices in Berlin.

All meeting starts 09:00 the first day and end at 16:00 unless otherwise explicitly stated.

12 AOB

12.1 Information: ebIX (EBG) update principles for BRSs

Kees/Ove informed that EBG has updated the document "Memo - ebIX (EBG) update principles for BRSs". The document has been uploaded to the ebIX[®] File Manager under ETC and today's meeting directory.

12.2 DB Energie GmbH: How to handle "Replace messages" (updates)

Dear Sir/Madam,

I am working at the Deutsche Bahn and I am also representing DB in the UIC Forum regarding the internal exchange of metered energy data.

Currently, I am facing an issue and I am trying to find the missing gap of my understanding, especially regarding "Replace Messages" as incoming data.

For the Railway Energy Sector, we have been using the UTITLS Message for a couple of years. This is working so far so good, but when it comes to "Replace Message" there are some parties involved, who has a different understand for that message or what that message should contain.

The problem is:

When we firstly received an UTITLS Message (Function Code 9), and later on, an updated of UTILTS Message is coming in (Function Code 5), how is the data of this replace message look like?

Will it only contain data, which were changed or updated, or shall it actually include the data which were sent from the original message, including the changed and updated data?

For my understanding, it should cover the entire information what was sent from the original Message, including the changed and updated data.

If only the updated data is sent in the replace message, the receiving party has difficulties with the "missing data" in the replace message, as we currently always refer to the original message.

I wasn't able to find any documentation particularly to this matter. Are you able to refer me to the specific documentation how it is generally dealt with?

Best regards,

Darren Dang

Mit freundlichen Grüßen

Darren The-Cuong Dang Energiedatenmanagement / Abrechnung Traktionsenergien (I.EFN 2(1)) DB Energie GmbH Im Galluspark 25, 60326 Frankfurt am Main Tel. +49 69 265 23263, intern 95523263, Fax +49 69 265 36735

More info:

Currently, the data exchange is based on UTILTS (TS=TimeSeries), in which the traction energy data for one or multiple TUs (Traction Units / to simplify = Train) is compiled in the UTITLS.

For each of the TU, the timeseries is stated in the DTM Segment as follow: DTM+324:201808010450201808010610:719'

This information indicates the energy data for the specific given period in the original massage, read as from: **201808010450** to: **201808010610 (Format: YYYYMMDDHHMM)**

When there is an updated from the sender party, to our opinion, the replace message (function code) should mirror that particular affected TU in reference to the timeseries provided in the original message, including now the complete timeseries with the changes.

It is then up to the receiving system to either accept the whole "new timeseries" in the replace message (as it completely reflects the entire original message) and import it as such, or that system is processing a comparison original vs replace timeseries and then just import the changes. This way the receiving party know that the replace message has a corresponding original message and timeseries.

Hope to receive a feedback from you after the meeting on Friday.

If you need any further information, please feel free to contact me.

Best Regards, Darren

In the ebIX[®] UTILTS IG from September 2004, it is stated:

1225	MESSAGE FUNCTION CODE	R	an3	Code	25:
				3	Deletion
				5	Replace of a previously sent message.
				9	Original message.

Conclusion:

- All supported the view of Darren, i.e. that the whole period from the original message should be resent when using Message Function Code "5, Replace of a previously sent message".
- Ove will send an answer to Darren.

Appendix A MRs for WG16

A.1 Event class

The request for an Event class has been submitted as PowerPoint presentation and is part of the TR.

To be followed up.

MR #	ebIX [®] element	To do	Definition	Status
ebIX® 2019/1	Market Evaluation Point Characteristic	Add a new MarketEvaluationP ointCharacteristic class	The relevant administrative characteristics of a Market Evaluation Point.	Submitted to WG16 20200219: Will be withdrawn. Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint 20200221: Withdrawn. Item closed
ebIX® 2019/2	Balance Group ID	Add new association from MarketEvaluation- Point class [01] to the Domain class [01], where the association end name at the Domain side is BalanceGroup		TBD
ebIX® 2019/3	Metering Point Type	Add marketEvaluation- PointType attribute (string) to the MarketEvaluation- PointCharacteristic class	A code specifying the direction of the active energy flow for the Market Evaluation Point(s), such as consumption, production or combined.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16.

A.2 MRs related to new class MarketEvaluationPointCharacteristic

MR #	ebIX [®] element	To do	Definition	Status
ebIX® 2019/4	Metering Method	Add new meteringMethod attribute (string) in the MarketEvaluation- PointCharacteristic class [01]	A code specifying how the energy volumes are established for the Market Evaluation Point(s), such as continuous- non- continuous- or not- metered.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16.
ebIX [®] 2019/5	Settlement Method	Add new settlementMethod attribute (string) in the MarketEvaluation- PointCharacteristic class [01]	A code specifying how the energy volumes are treated for settlement for the Market Evaluation Point(s), such as profiled or non- profiled.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16.
ebIX® 2019/6	Scheduled Meter Reading Date	Add new scheduledMeterRe adingDate attribute (string) in the MarketEvaluation- PointCharacteristic class [01]	The indication of when the regular meter reading is scheduled.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16. 20200326: Will be discussed with WG14 in future weekly meeting(s). Suggested to be a string. 20200526: WG14: Agreed on the addition of a new attribute in UsagePoint; nextReadingDate.

MR #	ebIX [®] element	To do	Definition	Status
ebIX® 2019/7	Meter Reading Periodicity	Add new meterReading- Periodicity attribute (string) in the MarketEvaluation- PointCharacteristic class [01]	The length of time between the regular meter readings.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16. 20200326: Will be discussed with WG14 in future weekly meeting(s). Probably readCycle in UsagePoint can be used. 20200520: Jan (SE): To be verified: Can the attribute readCycle from UsagePoint be used?
ebIX® 2019/8	Metered Data Collection Method	Add new meteredData- CollectionMethod attribute (string) in the MarketEvaluation- PointCharacteristic class [01]	A code specifying how a Metered Data Collector collects data from the Meter for the Market Evaluation Point, such as Automatic or Manually.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16. 20200326: The attribute, amrSystem, in class EndDevice, is an alternative. To be further discussed. 20200526: <i>WG14:</i> AMR is linked to a meter, not to a UsagePoint. amiBillingReady - refers to the meter is ami ready for billing purposes. amrSystem indicates the EndDevice is an AMR (ITRON AMR System). Boolean flag could be added to EndDevice - isAMR.

MR #	ebIX [®] element	To do	Definition	Status
ebIX® 2019/9	Grid Agreement Type	Add new gridAgreementTyp e attribute (string) in the MarketEvaluation- PointCharacteristic class [01]	Specification of type of grid contract, such as if the contract is directly between the Grid Company and the Grid Customer, or through the Energy Supplier.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16. 20200403: Suggest a new attribute to UsagePoint called "Agreement type", but with the description suggested form ebIX. Calling it "Agreement type" makes it a bit more general than "Grid Agreement Type". 20200526: Use inherited "type" attribute from Document. Add a new attribute "agreementType" in UsagePoint to describe the type of CustomerAgreement (Contract) associated with the UsagePoint. This new attribute would have a String datatype - with the capability of using a coded string (outside of UML) defined as "DSO" or "Supplier". Within IEC62325 the class MarketEvaluationPoint will inherit the new "agreementType" from UsagePoint. No model changes paceesary
ebIX® 2019/10	Administrative Status	Add new administrativeStatu s attribute (string) in the MarketEvaluation- PointCharacteristic class [01]	A code specifying whether (or not) the Market Evaluation Point is active part of the imbalance settlement.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16.

MR #	ebIX [®] element	To do	Definition	Status
ebIX [®] 2019/11	Contracted Connection Capacity	Add new contracted- ConnectionCapacit y attribute (string) in the MarketEvaluation- PointCharacteristic class [01]	Quantitative information about the capacity of the connection that is contracted for the Market Evaluation Point.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16. 20200602: WG14: New attribute contractedConnectionCapacity (DecimalQuantity) Description: "It is the contractually agreed capacity that the affiliated party reasonably expects to need at most at any point in the year for this metering point. The attribute ContractedCapacity is for large consumption metering points only." Add the new attribute to CustomerAgreement.
ebIX® 2019/12	Contracted Connection Capacity Measure Unit	Add new contracted- ConnectionCapacit y MeasureUnit attribute (uncefactUnitCode) in the MarketEvaluation- PointCharacteristic class [01]	The unit of measure used for the Contracted Connection Capacity.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16. 20200326: Could be discussed with WG14 to change cardinality between UsagePoint and CustomerAgreement to use the inherited Document.type attribute. 20200520: Jan (SE): Use a data type for contractedConnectionCapacity having a unit, the suggestion would be DecimalQuantity

MR #	ebIX [®] element	To do	Definition	Status
ebIX® 2019/13	Disconnection Contract	Add new disconnection- Contract attribute (Boolean) in the MarketEvaluation- PointCharacteristic class [01]	Disconnection Contract indicates if there is a contract at the Market Evaluation Point for disconnection as a result of the demand side management or the load management for the Market Evaluation Point. The element is Boolean and is used for both gas and electricity.	Submitted to WG16 20200219: Instead of creation of a new class MarketEvaluationPointCharacteristic, we will ask for addition of the attributes to MarketEvaluationPoint. 20200221: MR sent to WG16.
ebIX® 2019/14	Energy Label	Add a new EnergyTechnology- AndFuel class in the MarketManageme nt package.	A class indicating the origin of the energy produced at the related Market Evaluation Point(s).	Planned submitted to WG16 Q1/2020
ebIX® 2019/15	Energy Label	Add a new association from MarketEvaluationP oint class [0*] to the Energy- TechnologyAndFuel class [0*]		Planned submitted to WG16 Q1/2020
ebIX® 2019/16	Technology	Add new technology attribute (string) in the Energy- TechnologyAndFuel class [01]	An indication of the technology of the energy production, or part of the energy production, that is potentially fed into the grid at the related Market Evaluation Point(s). It is advised to use codes from the AIB-EECS-FS05 code list.	Planned submitted to WG16 Q1/2020

MR #	ebIX [®] element	To do	Definition	Status
eblX® 2019/17	Fuel	Add new fuel attribute (string) in the Energy- TechnologyAndFuel class [01]	An indication of the fuel used for the energy production, or part of the energy production, that is potentially fed into the grid at the related Market Evaluation Point(s). It is advised to use codes from the AIB-EECS-FS05 code list.	Planned submitted to WG16 Q1/2020
ebIX® 2020/18	Metering Grid Area	Add new association from MarketEvaluation- Point class [01] to the Domain class [01], where the association end name at the Domain side is MeteringGridArea	A Metering Grid Area is a physical area where consumption, production and exchange of (electrical) energy can be metered. It is delimited by the placement of meters for period measurement (continuous metering) for input to, and withdrawal from the area. It can be used to establish the sum of consumption and production with no period measurement (profiled Market Evaluation Point s) and network losses.	TBD
ebIX® 2020/19	Identification	Use mRID attribute in the Domain class	The unique identification of the Metering Grid Area to which this Market Evaluation Point belongs.	TBD
ebIX® 2020/20	MGA Name	Use name attribute in the Domain class	The name, in clear text, of the Metering Grid Area.	TBD

MR #	ebIX [®] element	To do	Definition	Status
	Aggregated Reception Station	Add new association from MarketEvaluation- Point class [01] to the Domain class [01], where the association end name at the Domain side is Aggregated- ReceptionStation.	An administrative entity that represents one or more reception (and distribution) stations for gas (which are physical installations). This entity functions as the exchange point between grids where calorific value and volumes are established.	TBD
		Remark: The ARS is expected to be replaced by the CVA, hence to be deprecated from the ebIX [®] business requirement s and NOT to be added to CIM.		
	Identification	Use mRID attribute in the Domain class. Remark: The ARS is expected to be replaced by the CVA, hence to be deprecated from the ebIX [®] business requirement s and NOT to be added to CIM.	The unique identification of the Aggregated Reception Station to which this Market Evaluation Point belongs.	TBD

MR #	ebIX [®] element	To do	Definition	Status
ebIX® 2020/21	Calorific Value Area	Add new association from MarketEvaluation- Point class [01] to the Domain class [01], where the association end name at the Domain side is CalorificValueArea	A Calorific Value Area is a predefined set of Market Evaluation Points for which the same established calorific value is applied.	TBD
ebIX [®] 2020/22	Identification	Use mRID attribute in the Domain class	The unique identification of the Calorific Value Area to which this Market Evaluation Point belongs.	TBD

A.3 MRs related to additions to the class Usage Point

MR #	ebIX [®] element	To do	Definition	Status
	Connection Status	Already there; Use connectionState attribute in UsagePoint	State of the usage point with respect to connection to the network.	Already approved Item closed.
	Disconnection Method	Already there; Use disconnection- Method attribute in UsagePoint	Is an indication of how the usage point is physically connected or disconnected.	Already approved Item closed.
	Capacity of the Accounting Point	Already there; Use physicalConnection- Capacity attribute in UsagePoint	Quantitative information about the maximum physical capacity of the connection for the UsagePoint.	Already approved Item closed.
ebIX [®] 2020/23	Capacity of the Accounting Point	Change the datatype for physicalConnection- Capacity from "Decimal" to "StringDecimal" (to include the unit)		 Action: Jan (SE) will send the DMR to WG16 to be handled at the meeting March 2nd. 20200221: MR sent to WG16. 20200326: Approved, but changed from "StringDecimal" to "DecimalQuantity". Item closed.
ebIX® 2020/24	Number of phases	Add new numberOfPhases attribute (integer) in the UsagePoint class [01] Remark: We have noted the phaseCode, but it is not clear how it serves our purpose.	The number of phases in the UsagePoint, either 1 or 3.	 Action: Jan (SE) will send the DMR to WG16 to be handled at the meeting March 2nd. 20200221: MR sent to WG16. 20200326: Approved, the attribute phaseCount will be added to UsagePoint. Item closed.

MR #	ebIX [®] element	To do	Definition	Status
ebIX® 2020/25	Current limitation	Add new currentLimitation attribute (CurrentFlow) in the UsagePoint class [01]	The current limitation, i.e. maximum current or fuse size, for the UsagePoint in Ampere.	 Action: Jan (SE) will send the DMR to WG16 to be handled at the meeting March 2nd. 20200221: MR sent to WG16. Most likely this change request can be withdrawn. 20200326: We will use the existing attribute "ratedCurrent" in UsagePoint". Item closed.
	Current limitation Measure Unit	Implicit given by the data type (CurrentFlow), which always is Ampere	The measure unit used for the current limitation, i.e. Ampere	
ebIX® 2020/26	connectionCat egory	Rephrase the definition: "A code used to specify the connection category, e.g., low voltage or low pressure, where the usage point is defined."		 Action: Jan (SE) will send the DMR to WG16 to be handled at the meeting March 2nd. 20200221: MR sent to WG16. 20200326: The definition will be updated: "A code used to specify the connection category, e.g., low voltage or low pressure, where the usage point is defined". Item closed.
ebIX® 2020/27	Pressure level	Add new pressureCategory attribute (integer) in the UsagePoint class [01] Remark: In Europe level (high, medium, low) is used,	A code specifying the gas pressure in the grid to which the installation of the UsagePoint is connected.	

MR #	ebIX [®] element	To do	Definition	Status
eblX[®] 2019/28	MarketEvaluat ionPointChara cteristic	Add new association from MarketEvaluation- Point class [0*] to the MarketEvaluation- PointCharacteristic class [0*]		Submitted to WG16. 20200221: Withdrawn.

A.4 Candidates for new MRs related to MktActivityRecord

We should make MRs from what still are valid from figure 122 from the TR:



Figure 122 - MktActivityRecord, suggested extensions in CIM

Appendix B Status for new BIMs from EBG

See draft BIMs, approved BIMs and workplan at the ebIX[®] File Manager.

- 1. Alignment of characteristics for a Customer linked to an AP:
 - o At this meeting we will finalising the associations not yet added:
 - Association from «ABIE» Customer Party to «ABIE» Contact;
 - Association from «ABIE» Customer Party to «ABIE» Domain Location (AP);
 - Association from «ABIE» Customer Party to «ABIE» Metering Point Address;
 - Association from «ABIE» Customer Party to «ABIE» Communication;
 - Association from «ABIE» Contact «ABIE» Communication;
 - Association from «ABIE» Communication to «ABIE» Communication Preference;
- 2. Change of TCR:
 - o The BIM is ready for review.
- 3. Alignment of Metering Configuration Characteristics:
 - o The Business Choreography View is ready for review, but Ove has some questions regarding the Business Information View:
 - How to map Snap Shot Date?
 - Most of the attributes in Meter, Register, Conversion factor, Placement Information and Gateway are missing.
 - We mis a Role Code for ESCO.
 -
- 4. Alignment of AP Characteristics:
 - o Notify AP Characteristics:
 - We must remove Voltage Level, Pressure Level and Physical Status Type from «ABIE» AdministrativeMeteringPoint_Characteristic.
 - The Capacity of AP Measurement Unit in AP Physical Characteristics and Contracted Connection Capacity Measurement Unit in AP Administrative Characteristics are currently mapped to the Energy Product Characteristics Quantity Unit, which requires a Product Code, but since we also use the Energy Product Characteristics in the Reconciliation Information with several Product Types this seems a bit strange (six different Product Types instead of one; Connection Capacity). Should we add MeasurementUnitCommon_CodeType to unitCode in «BDT» MeasureType instead?
 - Where to map the Capacity of the Accounting Point (in «ABIE» PhysicalMeteringPoint_Characteristic)?
 - The content of the MeteredDataCollectionMethod_CodeType shoul be MeteredDataCollectionMethodCode (from ebIX® Original) and not AdministrativeStatusCode (from ebIX® Subset)

E MeteredDataCollectionMethod CodeType «BDT»

- O +content : ebix:org::Codes::ebIX Assembled::AdministrativeStatusCode [1] «CON»

— O +listIdentifier : ebix:org::Codes::ebIX Assembled::CodeListIdentificationCode [0..1] «SUP»

+listAgencyIdentifier : ebix:org::Codes::ebIX Assembled::CodeListResponsibleAgencyCode [1] «SUP»

- Missing a «BBIE» for MGA Name.
- o Request AP Characteristics:
 - How to map Initiator ID?
- o Reject Request AP Characteristics:
 - Ready for review.
- o Request Change AP Characteristics from GAP:
 - Same comments/questions as for Notify MP Characteristics
- o Request Change AP Characteristics from BS:
 - Missing the ID Scheme Type Code + the Reference code qualifier (CEFACT) + the Assembled ID Scheme Type Code (Kees' homework).
- o Request Creation of new AP
 - Missing an association for GAP from MP_Event to Energy Party
 - Missing an association from MP_Event to MP Address
 - Document Name Code is missing for all connection documents (Create, Connect, Disconnect and Decommission)
 - The Reason Code should be reviewed for all connection documents (Create, Connect, Disconnect and Decommission)
- o Confirm Request Creation of new AP
 - Missing an association for GAP from Response_Event to Energy Party

Appendix C Proposed/agreed changes to the ebIX[®] Business Information Model 2019.A

C.1 UN/CEFACT DMR

1) Verify that addition of an ASCC between the ACC Event and the ACC Address is on the list of ebIX[®] changes to UN/CCL

Status 20190424:

o Postponed

C.2 General question for later elaboration

Can we remove the Document Name Code from the ebIX[®] models?

Status:

• The question will be kept for later elaboration

C.3 BRS for Request Change grid responsibility

- a) ETC is asked to find Document Name codes for:
 - o Request change grid responsibility;
 - o Response change grid responsibility;
 - o Notify change grid responsibility;
- b) And Business Reason codes for Change grid responsibility.

C.4 Requests from EMD

a) How to represent the exchange of calorific value in ABIEs

C.5 General model updates

- a) Replace the ACCs, BCCs etc. in the current CEFACT Profile with the "CEFACT Profile_Recast.mdzip" from Belgium and add generalisation from the "ebIX[®] assembled code list" to the related Belgian code list, received from Thibaut.
- b) Make the usage of "Time of Use" and "Meter Time Frame" consistent
 - o Check what is agreed with IEC in the TR
 - o Check what is the significance of "Time of Use"/"Meter Time Frame" in the proposal from Atrias
 - o Make the ebIX[®] model (Business requirements view and BIES) in line with the Atrias proposal
- c) At previous meeting, the ABIE MeteringPoint_Characteristic was split into AdministrativeMeteringPoint_Characteristic and PhysicalMeteringPoint_Characteristic. Due to this change, both the MDS and the EMD part of the ebIX[®] model must be corrected. Ove had corrected the MDS part, but noted that also the EMD document "Mapping Validated Data for Labeling for Certificate Issuer" needs to be corrected.

Homework 20190612:

- o Kees will review the "BRS for Validated Data for Labeling for Certificate Issuer" and prepare a discussion for ETC.
- d) Clean up of not used national enumerations



e) In the file generic\ebIX_ValidatedDataForBillingEnergy_2016pA.xsd I read

xsd:schema xmlns:xsd="<u>http://www.w3.org/2001/XMLSchema</u>" xmlns:<mark>rsm</mark>="un:unece:260:data:EEM" ...

and later

<xsd:element name="ValidatedDataForBillingEnergy" type="crs:ValidatedDataForBillingEnergyType"/>...

<xsd:element ref="crs:Header" minOccurs="0" maxOccurs="1"/>

The namespaces doesn't match. Should be "rsm" or "crs" in both places, not different.

C.6 Code request from EBG

- 1) For all Reason codes, change (added at ETC meeting 20190212):
 - o Balance Supplier to Energy Supplier;
 - o Metering Point to Accounting Point.
- 2) Add remining Reason codes, ref BRS for Customer consent:
 - a. Dataset does not fit
 - b. Consent ID not identifiable



- 3) ETC will be asked to rename the following Response Reason Description Codes:
 - o E10: "Metering Point ..." to "Accounting Point"
 - o E16: "Unauthorised Balance Supplier" to "Unauthorised Energy Supplier"
 - o E18: "Unauthorised Balance Responsible" to "Unauthorised Balance Responsible Party"
- 4) ETC will be asked to rename the Business Role Code Transport Capacity Responsible Party to Shipper:



5) For ETC: Can we rename Balance power supplier to Energy Supplier?



6) Add a Type of Area code, ref BRS for Bulk change of BRP:



- 7) New Document Name Codes
 - a. Request consent
 - b. Response request consent
 - c. Notify consent
 - d. Termination of consent
 - e. Notify withdrawal of consent
 - f. Request termination of consent
 - g. Response request termination of consent
 - h. Request withdrawal of consent
 - i. Response request withdrawal of consent
 - j. Notify termination of consent
 - k. Request valid consent
 - I. Response request valid consent
- 8) New Business Reason Codes
 - a. Consent administration
 - b. Change of Shipper
- 9) New Document Name Codes
 - a. Specific Party

C.7 «extend» request from EBG

- 1) Add an extension from UC "Change metering configuration characteristics" to "Determine Meter Read";
- 2) Add an extension from UC "Bulk change of BRP" to "Determine Meter Read";
- 3) Remove one out of two extensions from UC "Bulk change of Shipper" to "Determine Meter Read".



C.8 New codes from Sweden

1. In 6.1.1.2 in the (soon) published code list I find the list of Swedish "Document Name Code". A new code will be used now in April 2019: **S08** Accepted bids. (We are using this code in UTILTS messages sent in Operation phase. Earlier we have just used UTILTS in the metering and settlement phases.)

C.9 Codes without a code name

1. All codes without a code name should be deprecated.



Appendix D Suggestions for handling renaming MP-terms into AP-terms