Minutes ETC meeting, February 19th and 20th, 2020

Date: Wednesday and Thursday February 19th and 20th, 2020
Time: 09:00 – 17:00 (18:00?) and 09:00 – 16:00
Place: EDSN's offices in Amersfoort
Present: Fre, TenneT
Jan, EDSN
Jan, Svenska kraftnät
Kees, TenneT
Ove, Edisys
Teemu, Fingrid

Appendixes: **Appendix A,** MRs for WG16
Appendix B, CIM based Measure documents
Appendix C, Comments to the HRM 2020-01 from EBG
Appendix D, Status for new BIMs from EBG
Appendix E, Proposed/agreed changes to the ebIX® Business Information Model 2019.A
Appendix F, Update of ebIX® profile after meeting May 15th 2019
Appendix G, Suggestions for handling renaming MP-terms into AP-terms

Attachment: ETC workplan (see ebIX® file manager at https://filemanager.ebix.org/#)**:**

1 Approval of agenda

The agenda was approved with the following additions:

- Downstream requirements for IEC/CIM, see item 3.5
- HG meeting schedule, see item 6.5.
- Preparations for next ebIX® Forum, see item 13.1 under AOB.

2 Minutes from previous meeting

The minutes from previous meeting were approved without comments.

3 Resolve ebIX®/IEC issues

3.1 Status addition of Event class

Nothing new.

Action:

- Kees will bring up the question at the coming WG16 meeting in California in March.

3.2 Status for MRs to WG16, see Appendix A

From Jan (SE) January 17th:

Regarding the planned maintenance request (see Appendix A) item "ebIX® 2020/24, Number of phases" I have sent a question to Margaret Goodrich and Becky Iverson if we can use "phaseCode" in the UsagePoint class or if we should use the attribute "phaseCount" (an integer) in the class "EndDeviceInfo".

Status:

- MR will be submitted to WG16 meeting in March 2020.

And for the planned maintenance request (see Appendix A) item "ebIX® 2020/25, Current limitation" I suggested for Margaret and Becky that we could use the attribute "ratedCurrent" in the UsagePoint class – but can a "flow" datatype be changed to "integer" in the profile?

Status:

- MR will be submitted to WG16 meeting in March 2020.

Regarding ebIX® 2020/26-27, Voltage Level and Pressure level, we already have an attribute for this in UsagePoint (added two years ago).

It is called connectionCategory with the definition "A code used to specify the connection category, e.g., low voltage, where the usage point is defined."

Since we will have different identifications for metering points (usage points) with gas and electricity it would be possible to use the same attribute in UsagePoint – and then in the profile add a qualifier, (voltage/pressure) or from other information, know if it is for gas or electricity.

Status:

- MR will be submitted to WG 16 meeting in March 2020, asking for an update of the definition where also gas is included, i.e.:

  "A code used to specify the connection category, e.g., low voltage or low pressure, where the usage point is defined."

  See MR ebIX 2020/26 in Appendix A

Regarding ebIX® 2020/23, "Capacity of the Accounting Point Measure Unit"

I suggest that we change the datatype for physicalConnectionCapacity from "Decimal" to "StringDecimal" (compare with what we suggested for contractedConnectionCapacity: changing from "String" to "StringQuantity", however after verification from WG16).

But let us look at this at the next meeting, perhaps I have received some comments from Margaret Goodrich, however she is not the fastest one to reply…

Status:

- MR will be submitted to WG16 meeting in March 2020. The reason is the "StringDecimal" includes the unit.

From Jan January 23rd (for information):

Here are the questions that I sent to Margaret and Becky last week. Those can then be discussed with Margaret in Folsom in March.

But let us first discuss them at our next ETC meeting, see also my e-mail sent to ETC members the 17th.

Hi Margaret and Becky!

Some years ago (2017) we added some things into CIM related to the Usage point. Among those the attribute "physicalConnectionCapacity". (Currently we are within WG16 now looking at a similar attribute – related to the MarketEvaluationPoint – that we currently call "contractedConnectionCapacity", that the customer pays for, and this capacity could then be the same or less than this "physicalConnectionCapacity".)

But back to more physical information related to the "metering point", i.e. the Usage point in CIM. We mentioned this (more or less briefly) already back in 2017, but let me know to come back to it. The reason for not going further with this, was probably that it could be possible to find this kind of information in CIM.

Let me then try. One thing is the number of phases. Typically 1 or 3. (And if not specified, we would assume 3). In UsagePoint we find the attribute phaseCode of type PhaseCode. With more than 20 different codes. Hm, we just wanted an integer…

Further away in CIM we in the class EndDeviceInfo find the attribute phaseCount. And that is an integer ☺. So most likely we would then use the association from UsagePoint through EndDevice to EndDeviceInfo, even though it is a little bit "far away". Or may we change the list of "phaseCodes" to just a list of codes "1" or "3" in a profile?

Another thing we want to specify is the current limitation (like 16, 20 or 25 ampere). But here we don't need to go all the way to EndDeviceInfo – there is an attribute ratedCurrent there – but ratedCurrent is already found in UsagePoint. That is probably the one to use. The value is of type flow, but for our needs we just wanted an integer. However that could perhaps be handled in a profile?

Any comments?

From Jan February 4th:

In ebIX® we have a class called "Address". Those attributes can be mapped to different attributes within CIM. However, I have yet failed with two. AddressType and Municipality. You cannot use "type" from StreetDetail since that is telling the type of street, not the type of address (Type of street could be a "boulevard", a "lane", an "avenue" etcetera). Instead you find "mainAddress" and "secondaryAddress" in Location. The "type" attribute in Location may perhaps be used for "AddressType" – however that should rather tell the type of location, not the type of the address.

Better is probably to look at the class Organisation in CIM there you find two types of addresses: streetAddress and postalAddress. Nice. But how to e.g. specify a billing address?

The municipality is not the same as the "City Name" – the municipality is the administrative area (within a "county", within a "state"…) where the "city" (town, village) is located. It has been suggested within WG14 to change compounds below to normal classes. One advantage will be that you may inherit from a basic "Address" class – that you cannot do with compounds. I will probably first ask Margaret Goodrich (model manager within WG14) if, and then how, municipalities should be found in CIM.

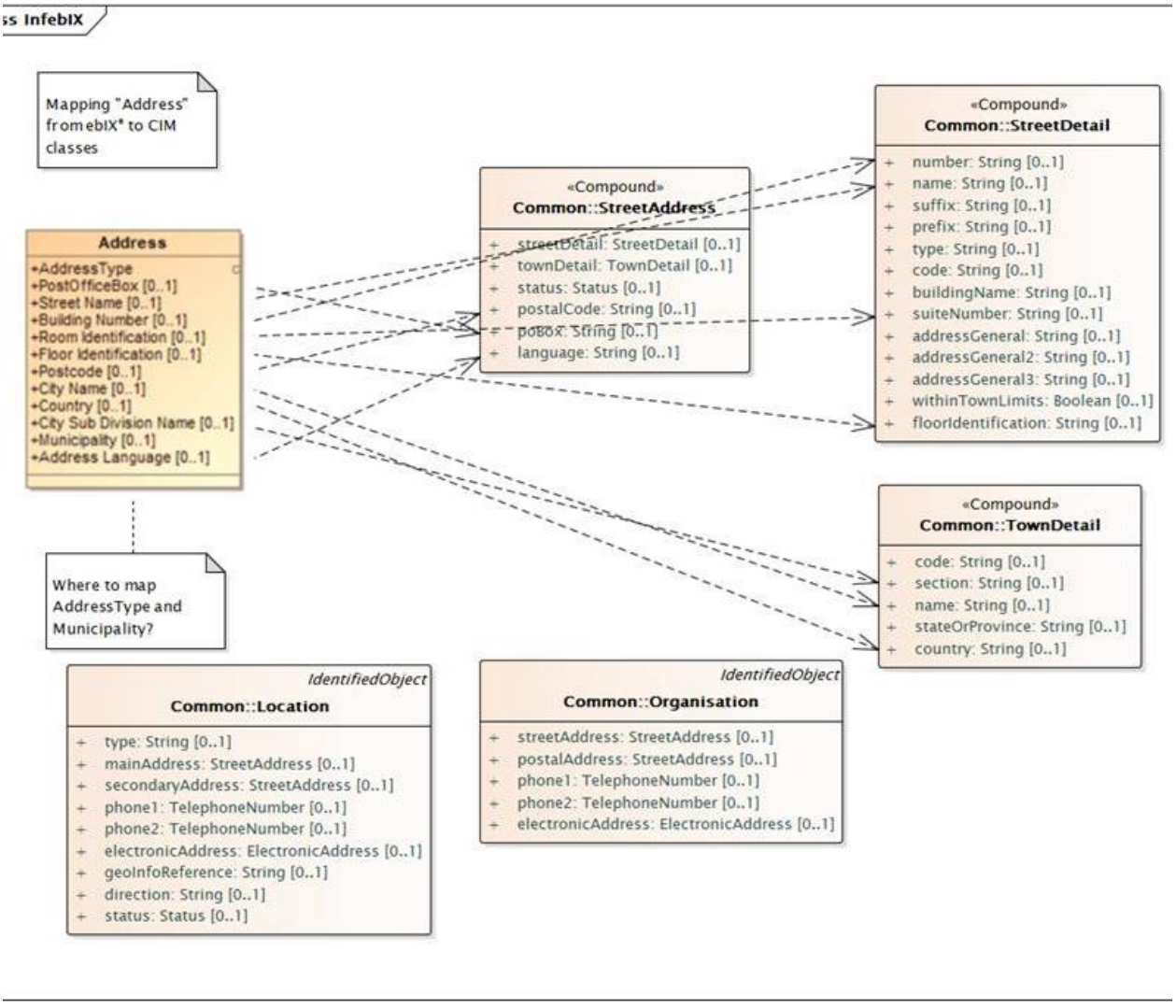
But we may also, from ebIX®, have a suggestion about the datatype. I.e. a municipality should perhaps be a "municipalityDetail", like the attribute townDetail with, the datatype TownDetail. Then, for a municipality, it would be possible to specify:

- The code of the municipality (used by Elhub in Norway)

- The name of the municipality (to be used by the Swedish datahub)
- and some other possible attributes from TownDetail like country

  It could then also be discussed within EBG if todays “City Sub Division Name” is a part of the municipality (an administrative part and then mapped to “municipalityDetail”) or a part of the town (to be used in a postaladdress and then mapped to “townDetail”).

PS: In the future Swedish datahub we will also have some more attributes regarding the address, like “[Building]Letter” – i.e. “Sturegatan 9B” would then be put into three different attributes. There is also an official “UUID” that could be used for Swedish addresses, however the CIM class StreetAddress does not have an mRID.



During this item it was also agreed to skip MR ebIX® 2019/01 (addition of a new MarketEvaluationPointCharacteristic class) and instead add all the proposed attributes into the MarketEvaluationPoint class. This implies withdrawal of MR ebIX® 2019/01, ebIX® 2019/28 and update of MR ebIX® 2019/03 to MR ebIX® 2019/13.

It was also discussed if we should ask for addition of separate association to basic CIM for all relevant domains, such as MGA, Scheduling Area, Bidding Zones etc. And also, eventually for roles connected Market Party. However, the topic must be further analysed before we send a MR to WG16.

Conclusion:

- We will start by bringing up the question in the HG.

Actions:

- Kees will ask WG16:
  - How to see the difference between a postal address and a physical address for persons (currently in CIM only available for organisation);
  - What are the rules, and where do we find them, for Association end/role names?
- Jan (SE) will submit MR ebIX® 2020/23+24+25+26 to the WG16 meeting in due time before the next meeting March 2nd, 2020, i.e. latest on Friday February 21st.
- Jan (SE) will inform WG16 about the withdrawal of MR ebIX® 2019/01, ebIX® 2019/28 and update of MR ebIX® 2019/03 to MR ebIX® 2019/13.

3.3 Interim period for ebIX® migration to CIM

Wouter Meijers, an Enexis colleague of Jan (NL), presented the EA tooling that is developed and used by DSO Enexis.

Jan (SE) informed that it will be discussed during the coming IEC meeting (WG13/WG14) if the CIMTool will be replaced by EA Schema Composer. Hence, Ove's action item from previous meeting to check the CIMTool at https://wiki.cimtool.org/index.html (to see if this also flattens the xml schemas) was postponed until we know the status for the tool.

3.4 How to add additions to CIM

Jan (SE) had as action asked Becky and Greta how "extension package/file" should be maintained:

> After having some correspondence with Jean-Luc Sanson, I have done updates regarding the profile associated to ESMP. Instead of having one XMI file imported directly under the ProfilesIEC62325-package, there are now two XMI files to handle the ebIX® profile. One containing the "documents" (contextual and assembly models with ABIEs & MBIEs), another with the ACCs. And I think that is good idea to separate the two packages (and have separate XMI files). And you might of course have further XMI files – e.g. one for metering another for structuring that can be maintained separately (like the Magic Draw files today).
>
> In order for the CIMConteXtor program to handle the ACCs properly together with the ACCs from ESMP, and especially I think, making ACCs associated with WG13/14 parts of CIM (and then make ABIEs etcetera) the package with our ACCs must be put under the IEC62325-351 Ed.3-package.
>
> Due to my input regarding this, Jean-Luc and André Maizener will see how to handle (regional) extensions without having to put it into the 62325-351-package in order for the CIMConteXtor program to work.
>
> Beside the two new XMI files here, you should also use the XMI-file "ebIX CIM Extension.xmi" that contains (some) of the extensions we want to the basic CIM. See my mail from January 20th.

I also send you two Word files. One describing how to make extensions and save them as XMI files. Another describing how to import the XMI files to an existing eap file with CIM (with ESMP).

Next step I will do is to describe the latter steps for Greta Munnecke Bonnary (that maintains ESMP) and ask if she has some suggestions regarding the verification of such kind of import.

From Jan January 29th:

The last week I have been working with "Metering Point characteristics" (Or Accounting Point Characteristics if we just look at what is needed for points where we change supplier – but I kept the name "Metering Point characteristics" that also is used in the technical report.). I here paste two diagrams, one "contextual model" and one "assembly model" – created using CIMConteXtor. As you can see there are several "new" associations, but also several Extended classes – with qualifier "Ext". A typical extension is just an association to another class. I added those associations in an extension package. And at "ACC"-level I used them for classes having the qualifier "Ext", this in order not to get a conflict with existing classes in ESMP, and not to touch existing CIM (nor ESMP), but to have the extensions in another package. The names of associations here are just "drafts", they can be different in future versions.

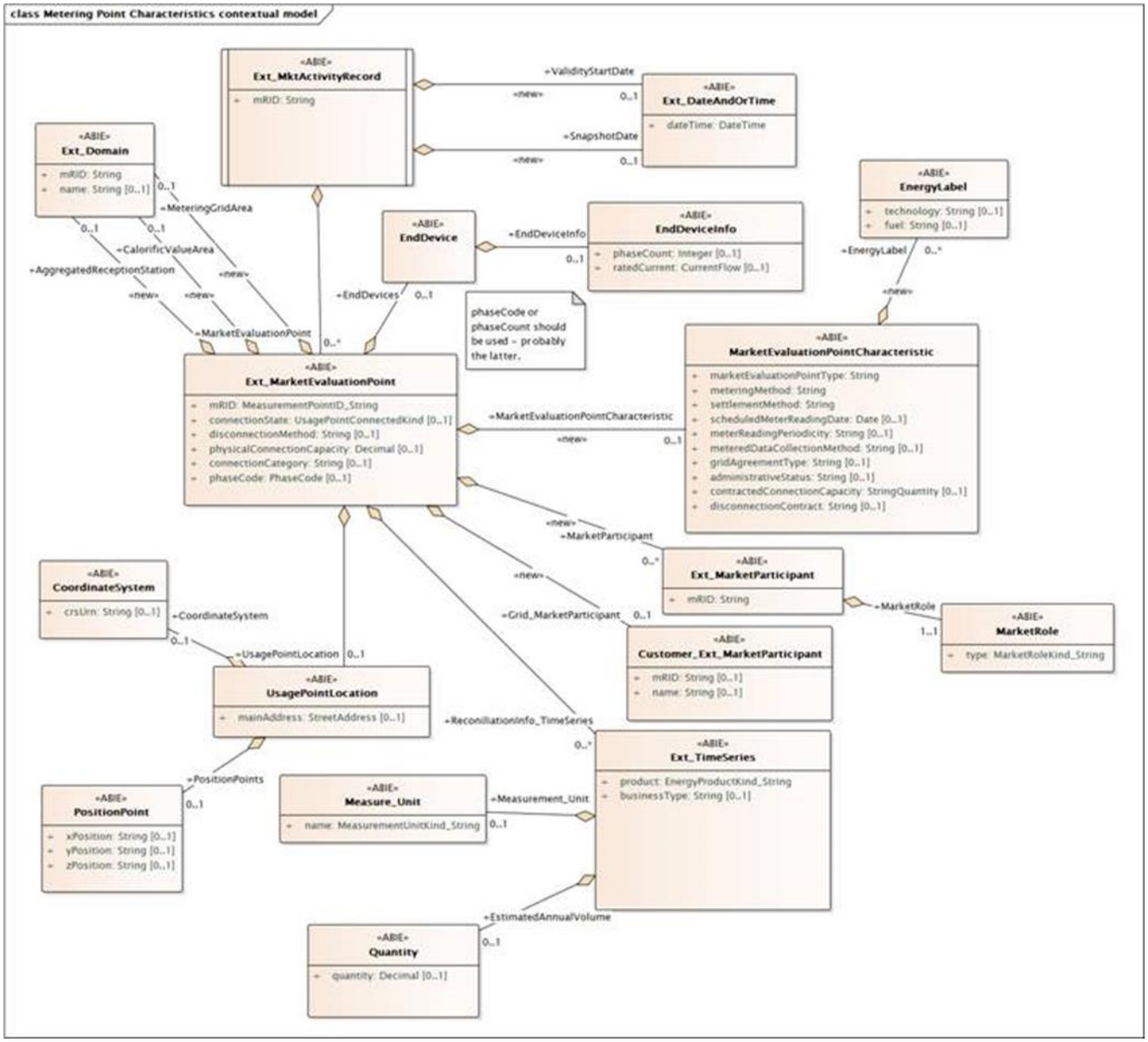
I will later today or tomorrow update the ".XMI"-files, and verify that I can import them from a fresh CIM file and get all associations and diagrams OK.

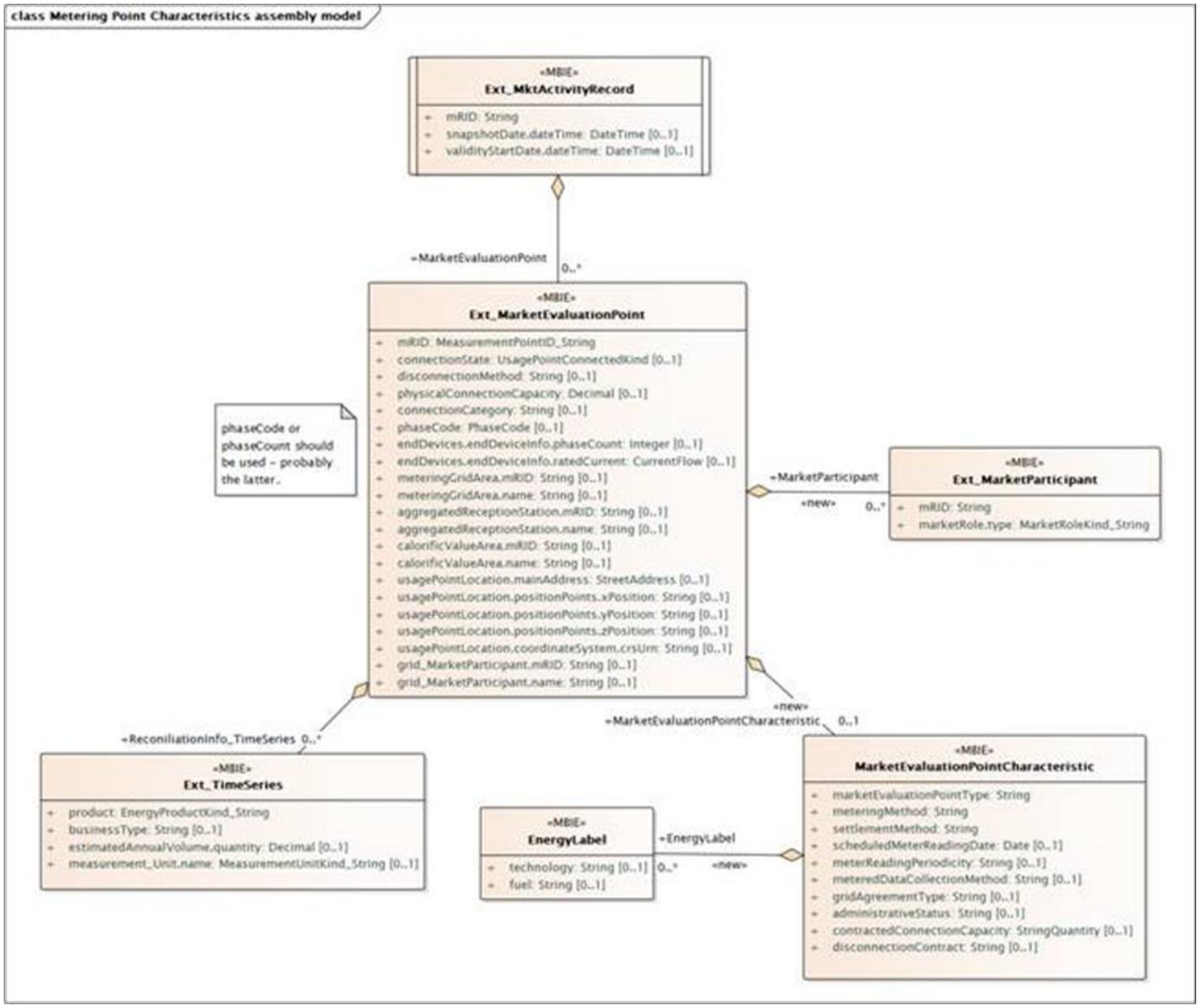
At our next ETC-meeting we can go through these different extensions and write further Maintenance Requests to CIM. I will in my next e-mail send you figures with just the extensions.

What is not part of the draft model below are some attributes from the ebIX® model:

- AP Billing Characteristics"; I am not sure what to use from CIM.
- Some attributes from the header level (including Additions). Some existing attributes in MktActivityRecord may be used for that like "reason" and "type".
- BalanceGroup
- Standard Load Profile and Meter Time Frame Type. Because of that there is no repetition here of EstimatedAnnualVolume, and I think those attributes need more investigation (and more update of CIM/ESMP).
- Some attributes regarding the address (below you just see "mainAddress" in UsagePointLocation). Here it is a need to update ESMP that has a bit limited address information – and one error.
- There are also some minor differences regarding classifications – the attributes "ValidityStartDate" and "SnapShotDate" are not required below, but should perhaps be required.

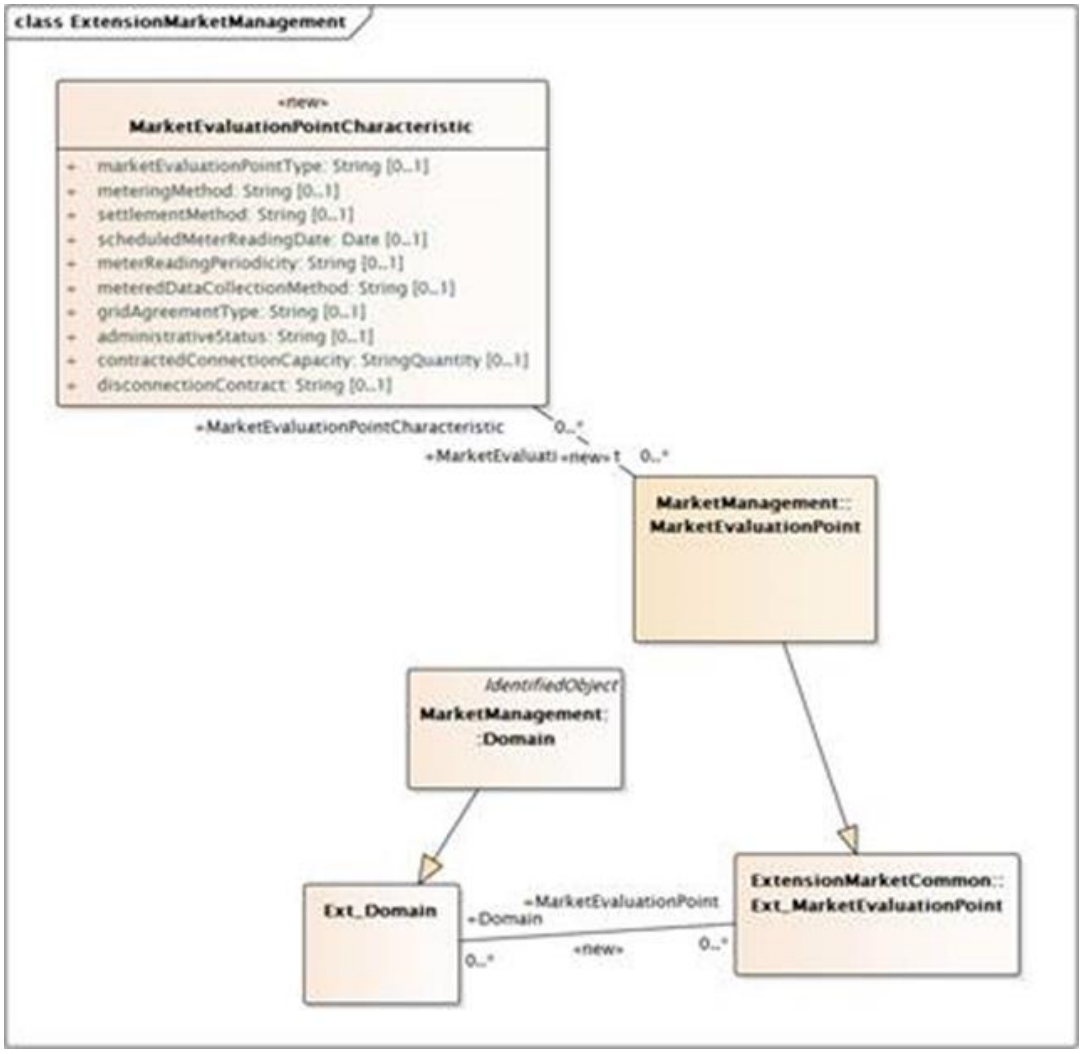
Other work that would need to be done before having usable XSD:s is (for instance) to use existing or new datatypes plus adding codes (enumerations). But the focus now is to update CIM. And of course, we don't know yet what will happen with our suggested extensions – some could be changed before approval, including those not yet sent in.


class Metering Point Characteristics contextual model
«ABIE»
Ext_MktActivityRecord
+ mRID: String
+ValidityStartDate
«new»
0..1
«ABIE»
Ext_DateAndOrTime
+ dateTime: DateTime
+SnapshotDate
«new»
0..1
«ABIE»
Ext_Domain
+ mRID: String
+ name: String [0..1]
0..1
+MeteringGridArea
0..1
0..1
+CalorificValueArea
+AggregatedReceptionStation
«new»
«new»
«new»
«ABIE»
EndDevice
+EndDeviceInfo
0..1
«ABIE»
EndDeviceInfo
+ phaseCount: Integer [0..1]
+ ratedCurrent: CurrentFlow [0..1]
«ABIE»
EnergyLabel
+ technology: String [0..1]
+ fuel: String [0..1]
+EnergyLabel
0..*
«new»
+EndDevices
0..1
phaseCode or phaseCount should be used - probably the latter.
+MarketEvaluationPoint
0..*
«ABIE»
Ext_MarketEvaluationPoint
+ mRID: MeasurementPointID_String
+ connectionState: UsagePointConnectedKind [0..1]
+ disconnectionMethod: String [0..1]
+ physicalConnectionCapacity: Decimal [0..1]
+ connectionCategory: String [0..1]
+ phaseCode: PhaseCode [0..1]
+MarketEvaluationPointCharacteristic
«new»
0..1
«ABIE»
MarketEvaluationPointCharacteristic
+ marketEvaluationPointType: String
+ meteringMethod: String
+ settlementMethod: String
+ scheduledMeterReadingDate: Date [0..1]
+ meterReadingPeriodicity: String [0..1]
+ meteredDataCollectionMethod: String [0..1]
+ gridAgreementType: String [0..1]
+ administrativeStatus: String [0..1]
+ contractedConnectionCapacity: StringQuantity [0..1]
+ disconnectionContract: String [0..1]
«new»
+MarketParticipant
0..*
«ABIE»
Ext_MarketParticipant
+ mRID: String
+MarketRole
1..1
«ABIE»
MarketRole
+ type: MarketRoleKind_String
«ABIE»
CoordinateSystem
+ crsUrn: String [0..1]
+CoordinateSystem
0..1
«new»
+Grid_MarketParticipant
0..1
«ABIE»
Customer_Ext_MarketParticipant
+ mRID: String [0..1]
+ name: String [0..1]
+UsagePointLocation
0..1
«ABIE»
UsagePointLocation
+ mainAddress: StreetAddress [0..1]
+ReconciliationInfo_TimeSeries
0..*
«ABIE»
Ext_TimeSeries
+ product: EnergyProductKind_String
+ businessType: String [0..1]
+PositionPoints
0..1
«ABIE»
PositionPoint
+ xPosition: String [0..1]
+ yPosition: String [0..1]
+ zPosition: String [0..1]
«ABIE»
Measure_Unit
+ name: MeasurementUnitKind_String
+Measurement_Unit
0..1
+EstimatedAnnualVolume
0..1
«ABIE»
Quantity
+ quantity: Decimal [0..1]



From Jan January 30th:

Here comes a better figure showing how to handle new associations. Those should be added as associations to extensions – see the example below for the new suggested association between Domain and MarketEvaluationPoint. Here I have added extension-classes on both sides. It is possible having it on just one side. (Otherwise the association from MarketEvaluationPointCharacteristic should go to "Ext_MarketEvaluationPoint", but it doesn't.)

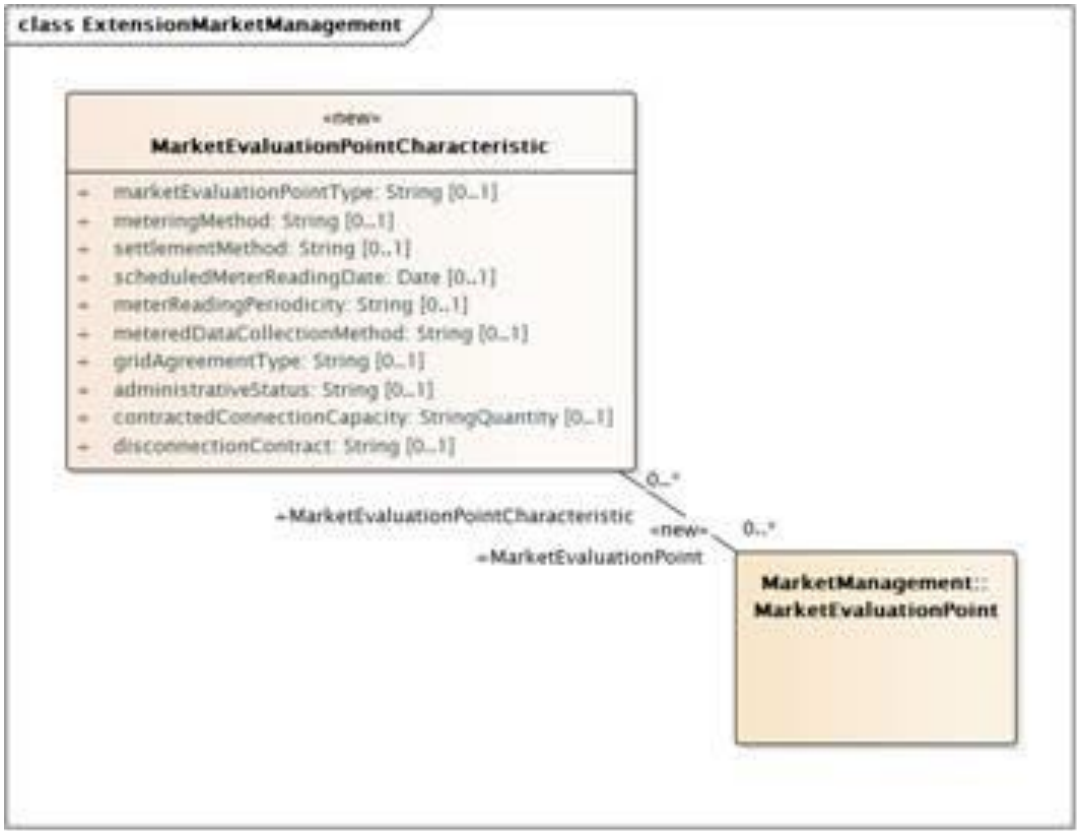


I here send you three XMI files. I also send you a somewhat updated document describing how these XMI files were created. In order to import the XMI files into an CIM ESMP file, use the description in "Adding ebIX packages to CIM.docx" that I sent 23rd of January.

In our ETC work it should then be possible to create more XMI-files that extends CIM (and ESMP). And someone may work on "structure" extensions, while another – at the same time – work on "metering" extensions. It would also be of interest to look at making (and using) locally extended XMI-files based on extended CIM, like having a "dutch XMI file". But, currently only for testing – these three XMI files are just drafts.

From Jan January 30th, second mail:

At the WG16 call we discussed some of the suggested additions to CIM.



For some of the attributes there will be a discussion between WG16 and WG14 at the IEC meeting beginning of March in California. E.g. Is there something like “Metered data collection method” in the WG14 part of the model? (i.e. part of, or associated to Usage point). The same for: “Scheduled meter reading date”.

And for “Meter reading periodicity”, could the attribute “readCycle” within UsagePoint be used? Definition: “Cycle day on which the meter for this usage point will normally be read. Usually correlated with the billing cycle.”. Ask WG14: how is that attribute used? What kind of information is specified?

For “Metering method” (typically continuous or non-continuous, but may also be e.g. calculated), ask WG14: is there something like that in the WG14 part of CIM? Regarding “Contracted connection capacity”, if that is a numeric value it should rather not have the datatype String, but rather “DecimalQuantity”(?). Then you will also get a unit. But we can also check – how is this handled for attributes like this within ESMP? Can we do something similar?

If we drop some of our maintenance requests, and use attributes from UsagePoint (inherited) we will not have the many-to-many association from MarketEvaluationPoint to MarketEvaluationPointCharacteristic for those attributes. Will that be a problem? For which use cases is there a need to have that many-to-many association?

(Trying now to find some…:

- “For this metering point: what has been the last three scheduled meter reading dates?”
- “For this metering point: what are the possible grid agreement types?”
- “Who are the metering points for this settlement method?”

- "Who are the metering points having this market evaluation point type?"

However, these questions are probably not part of use cases… or do have better questions answered by some use cases for what we would like to have a many-to-many relation? Most likely we can handle information exchanges without having this relation. And since we don't have a "date and time" related to the characteristic class, we can not tell when something was valid for a specific metering point.).

I said at the WG16 meeting that we should look at this within ebIX®, i.e. at our next ETC meeting. One reason for having a many-to-many relation is that this is something you typically have "over time", i.e. the characteristics change. But do you exchange that kind of information? Is there a need to tell both "before and after" of an attribute in an exchange? Or is it enough to tell: "This is the situation at this snapshot date, or this will be the situation at this specific date".

3.5 Downstream requirements for IEC/CIM

Kees presented some thoughts:

1. EU requirements in next network codes for information exchange in European markets:
    a) Reference models for both Electricity and Gas:
        1. Use role model (preferably HRM);
        2. Use reference information/data model (preferably IEC CIM);
        3. Use core process model (ebIX model?);
        4. Core Components for creating technology dependent information exchange formats.
    b) So, we need:
        1. IEC CIM as a reference information model both for Electricity and Gas;
        2. We need a European market profile that for the downstream market is fit for both Electricity and Gas.
2. Governance reference information model:
    a) Will be different government for different parts (reference models), such as:
        1. Basic CIM will be governed by IEC;
        2. The ESMP will be governed by ENTSO-E;
        3. ebIX® profile(s) will be governed by ebIX®;
        4. etc.
    b) We should make a table describing where each part is governed.
3. Requirements for model:
    a) Content Information Model;
    b) Content Core Component Profile:
        1. Use ACC from UN/CEFACT;
        2. Define IEC ABIE based on the ACC (and of course on the basis of business requirements);
        3. Create regional/national MBIE based on ABIE (+ regional/national business requirements).
    c) Technology/format:
        1. Technology (=tool) independent;
        2. Effective standard interface between tools;
        3. Secure back-up.
4. ebIX model in combination with IEC CIM:
    a) Business requirements (BRV):
        1. We keep the present ebIX® model in MagicDraw;

2. We map the elements in the Business Requirements View (BRV) to an imported XMI version of the basic CIM modules.

b) Enumerations:
   1. We keep the present ebIX way to specify enumerations (code list). In this way we maintain the required flexibility for regional/national customization.

c) Business Information Model (BIM):
   1. Use ACC from UN/CEFACT;
   2. Define IEC ABIE on this basis;
   3. Create regional/national MBIE based on ABIE (+ regional/national business requirements);
   4. We can use both Enterprise Architect and MagicDraw for work on the BIM's.

Actions:

- Kees will make a proposal for a table explaining governance on different levels and distribute it to the ETC participants at the meeting for comments;
- The "governance table" is intended to be presented at the coming WG16 meeting beginning of March and at the coming ebIX® Forum meeting end of March.

4 Problems with TT (Eclipse)

Ove had as action tried to install Open Java to see if this works, however without success.

Action:

- Kees will contact In4Mate asking if they have a solution for how to open Eclipse.

5 Review of BIMs from EBG

Due to lack of time the item was postponed. See status in Appendix D.

6 Resolve HG issues

6.1 Status for new project for alignment of Area configuration

Nothing new – will be on the agenda for the next CIM EG, April 2nd and 3rd.

6.2 Status for question from David regarding introduction of a Constraint Service Provider (CSP) to the HRM

Jan (SE) and Ove had as homework asked their Nordic colleagues if CGM used for congestion management will require changes to the HRM. The answer was that it doesn't seem that CIM or CGM has anything directly related to congestion management. However, it was noted that the CGM will be used as a basis for defining where congestions take place.

The ebIX® member of the HG (Jan, Kees and Ove) and David had a telephone conference related to addition of CSP to the HRM. It was agreed to bring the topic up at the next ebIX® Forum meeting end of March:

- Currently there are no regulations that can be the basis for a definition of a "Congestion/Constraint/Capacity Service Provider" (CSP);

- We think we need one or more new role(s) in the HRM that can provide services to the System Operator for solving issues like congestion, voltage control, controlled islanding, n-1 redundancy support etc.;
- We think the CSP will buy capacity from another producing or consuming role, such as a Resource Provider, a Resource Aggregator;
- We think there also is a need for a new role "Flexibility Settlement Responsible", that can handle data related to lifting of congestion and maybe compensations;
- We hope to look into the "Flexibility Settlement Responsibility" in ebIX® Flex project phase II and the CSP in ebIX® Flex project phase III.

Item closed.

6.3 Comments to the HRM 2020-01 from EBG and the ebIX® Billing project

The comments to HRM from EBG and the ebIX® Billing project was reviewed. The conclusions can be found in Appendix C.

Item closed.

6.4 ENTSO-E Energy Trader proposal for new role code

For information, it was agreed at the latest HG meeting to rename Trader to Energy Trader.

Item closed.

6.5 HG meeting schedule

The following E-mail had been received from Olivier (ENTSO-E):

> As already shared, ENTSO-E secretariat was asked to focus on ENTSO-E mandates and we have proposed to schedule 3 HG 1-day physical meetings maximum in total for 2020 (there can be calls in between). (**see email from 4th of November 2019**).
>
> In addition, practically speaking, we have a lot to do with Alvaro on Network Code implementation this year (CSA, FSKAR) and Clean Energy Package (Capacity register). We cannot duplicate ourselves.
>
> Therefore, Alvaro will be able to participate on meetings on 26th of May 2020 and 24th of November 2020 (on top of the meeting that took place yesterday in ENTSO-E premises) maximum. Please advise if this is compatible with your delivery plan and the modeling role from Alvaro (or if there is a need to reconsider the organization).

The following response was drafted:

> Dear Olivier,
>
> The HRM, maintained jointly by ebIX®, EFET and ENTSO-E, is now recognized as one of the key artefacts within the European electricity market.
>
> It has inspired the gas industry to make a similar model, and we see the need to cooperate with them in order to keep definitions and relations similar – if not equal.

Since the HRM now is well known and used within Europe, we are also getting input and questions from the users. Good input, and good questions that we need to act on. Most recently now from the Croatian regulator.

Currently we are having a list of 24 agreed changes to the role model. The plan is to publish those changes in a new role model before summer 2020. Those changes have been added to the draft model (the .eap version) by Alvaro.

Beside those 24 agreed changes, we are also having a list of 9 possible changes to be further elaborated. And I believe we will finalize some of those at the April meeting. Then some work will have to be done by Alvaro.

More important – related to what is needed to be updated in the next role model – is however the homework we decided at the meeting last week.

Each of the members in the Harmonisation Group, will check a handful definitions in the HRM and compare those with definitions in the network codes and especially with the clean energy package regulation + directive. Two definitions were already redefined at the meeting last week, and I expect we will agree upon some more redefinitions at the April meeting.

Those redefinitions will then be put into the role model, and we then expect that to be done by Alvaro.

The next HRM agreed upon within the Harmonisation Group will have to be sent out at least two weeks before the CIM Expert group meeting May 27-28th. Otherwise that version of the HRM may not be published until the autumn.

Will Alvaro have time before that to update the role model based on our work in April?

Perhaps he can join remotely for up to an hour before we end the April meeting, so that we can go through the changes agreed during that meeting. Then it will be easier for Alvaro to do the changes.

At the HRM meeting in May we will go through the comments received so far from ENTSO-E, ebIX® and EFET. However, we may also expect more comments after the CIM Expert group meeting end of May. Therefore, we will schedule a preliminary telco in June in order to agree upon what to do with those comments. I would guess that we, for some of the possible comments, will decide discussing them further in the Autumn.

But what has been agreed can then be published as a new HRM before the summer holidays.

For the work in the autumn 2020, we expect more to be done based on the definitions found in the Clean energy package. The homework now is to compare the existing definitions. But we will not finalize all updates in April, and I also expect the group to discuss other objects defined in the Clean energy package that currently is not part of the HRM. Even if those objects not will be candidates for updating the HRM, it is good to have a common knowledge about them.

More important work for the Autumn will be related to input from the different “flexibility projects” carried out in Europe (like EU-SysFlex and CoordiNet). Related to that we can expect more role(s) of the type “service provider”, beside the current “Balancing Service Provider”. There is also a need for a role that settle the results.

At the ebIX® Forum meeting, March 24th, ebIX® will discuss how to best secure the future work of the HRM.

At the planned meeting in September we will of course, as usual, document changes that we agree upon. But since Alvaro will not participate, his work will have to be done afterwards. However, it would

be helpful if Alvaro can join remotely a part of the second day of the September meeting – like now in April – in order to go through the agreed changes.

Item closed.

7 Status for harmonisation of the electricity and gas role models

Nothing new.

8 ebIX® Business Information Model 2020.A

8.1 Use of XOR in combination with cardinalities

Due to lack of time the item was postponed.

8.2 Continue review and update of version 2020.A

Due to lack of time the review of proposed updates in Appendix E, 0 and Appendix G were postponed.

8.3 Comment to Settlement Method Code E15

Due to lack of time the item was postponed.

9 Status for upgrade of MagicDraw to version 19.0

The upgrade has been done.

Item closed.

10 Code lists from Magic Draw model in Word format

Due to lack of time the item was postponed.

11 Review of ETC workplan

The ETC workplan was updated, see ebIX® File Manager.

12 Next meetings

- Wednesday and Thursday March 25th and 26th, 2020, BDEW's offices in Berlin.
- Wednesday and Thursday May 13th and 14th, 2020, Svenska kraftnät's offices in Sundbyberg (Stockholm).
- Tuesday and Wednesday June 23rd and 24th, 2020, Warszawa at "innogy Polska IT Support" (new company name) Towarowa 7A or Holliday Inn, Twarda 52.
- Combined with ebIX® Forum September/October 2020
- Wednesday and Thursday November 18th and 19th, 2020, Fingrid's offices in Helsinki.

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

13 AOB

13.1 Preparations for next ebIX® Forum

The ebIX® Forum agenda was reviewed and a new item 8 (Usage of IEC/CIM for downstream data exchanges (Jan/Kees)) was proposed added.

Also, the summary bullet pints from item 6.2 above was added to the ETC status presentation for ebIX® Forum.

Appendix A MRs for WG16

A.1 MRs related to new class MarketEvaluationPointCharacteristic

MR #	ebIX® element	To do	Definition	Status
ebIX® 2019/1	~~Market Evaluation Point Characteristic~~	~~Add a new MarketEvaluationPointCharacteristic 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.
ebIX® 2019/2	Balance Group ID	Add new association from MarketEvaluationPoint class [0..1] to the Domain class [0..1], where the association end name at the Domain side is BalanceGroup		TBD
ebIX® 2019/3	Metering Point Type	Add marketEvaluationPointType attribute (string) to the MarketEvaluationPointCharacteristic 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.
ebIX® 2019/4	Metering Method	Add new meteringMethod attribute (string) in the MarketEvaluationPointCharacteristic class [0..1]	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.

MR #	ebIX® element	To do	Definition	Status
ebIX® 2019/5	Settlement Method	Add new settlementMethod attribute (string) in the MarketEvaluationPointCharacteristic class [0..1]	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 scheduledMeterReadingDate attribute (string) in the MarketEvaluationPointCharacteristic class [0..1]	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.
ebIX® 2019/7	Meter Reading Periodicity	Add new meterReadingPeriodicity attribute (string) in the MarketEvaluationPointCharacteristic class [0..1]	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.
ebIX® 2019/8	Metered Data Collection Method	Add new meteredDataCollectionMethod attribute (string) in the MarketEvaluationPointCharacteristic class [0..1]	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.

MR #	ebIX® element	To do	Definition	Status
ebIX® 2019/9	Grid Agreement Type	Add new gridAgreementType attribute (string) in the MarketEvaluationPointCharacteristic class [0..1]	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.
ebIX® 2019/10	Administrative Status	Add new administrativeStatus attribute (string) in the MarketEvaluationPointCharacteristic class [0..1]	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.
ebIX® 2019/11	Contracted Connection Capacity	Add new contractedConnectionCapacity attribute (string) in the MarketEvaluationPointCharacteristic class [0..1]	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.
ebIX® 2019/12	Contracted Connection Capacity Measure Unit	Add new contractedConnectionCapacity MeasureUnit attribute (uncefactUnitCode) in the MarketEvaluationPointCharacteristic class [0..1]	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.

MR #	ebIX® element	To do	Definition	Status
ebIX® 2019/13	Disconnection Contract	Add new disconnectionContract attribute (Boolean) in the MarketEvaluationPointCharacteristic class [0..1]	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 EnergyLabel class	A class indicating the origin of the energy produced at this Market Evaluation Point	Planned submitted to WG16 Q1/2020
ebIX® 2019/15	Energy Label	Add new association from MarketEvaluationPointCharacteristic class [0..1] to the EnergyLabel class [0..*]		Planned submitted to WG16 Q1/2020
ebIX® 2019/16	Technology	Add new technology attribute (string) in the EnergyLabel class [0..1]	An indication of the technology of the energy production, or part of the energy production, that is potentially fed into the grid at this Market Evaluation Point. It is advised to use code from the AIB-EECS-FS05 code list.	Planned submitted to WG16 Q1/2020

MR #	ebIX® element	To do	Definition	Status
ebIX® 2019/17	Fuel	Add new fuel attribute (string) in the EnergyLabel class [0..1]	An indication of the fuel used for the energy production, or part of the energy production, that is potentially fed into the grid at this Market Evaluation Point. It is advised to use code from the AIB-EECS-FS05 code list.	Planned submitted to WG16 Q1/2020
ebIX® 2020/18	Metering Grid Area	Add new association from MarketEvaluationPoint class [0..1] to the Domain class [0..1], 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 MarketEvaluationPoint class [0..1] to the Domain class [0..1], where the association end name at the Domain side is AggregatedReceptionStation. **Remark**: The ARS is expected to be replaced by the CVA, hence to be deprecated from the ebIX® business requirements and NOT to be added to CIM.	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
	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 requirements 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 MarketEvaluationPoint class [0..1] to the Domain class [0..1], 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.2 MRs related to additions to the class Usage Point

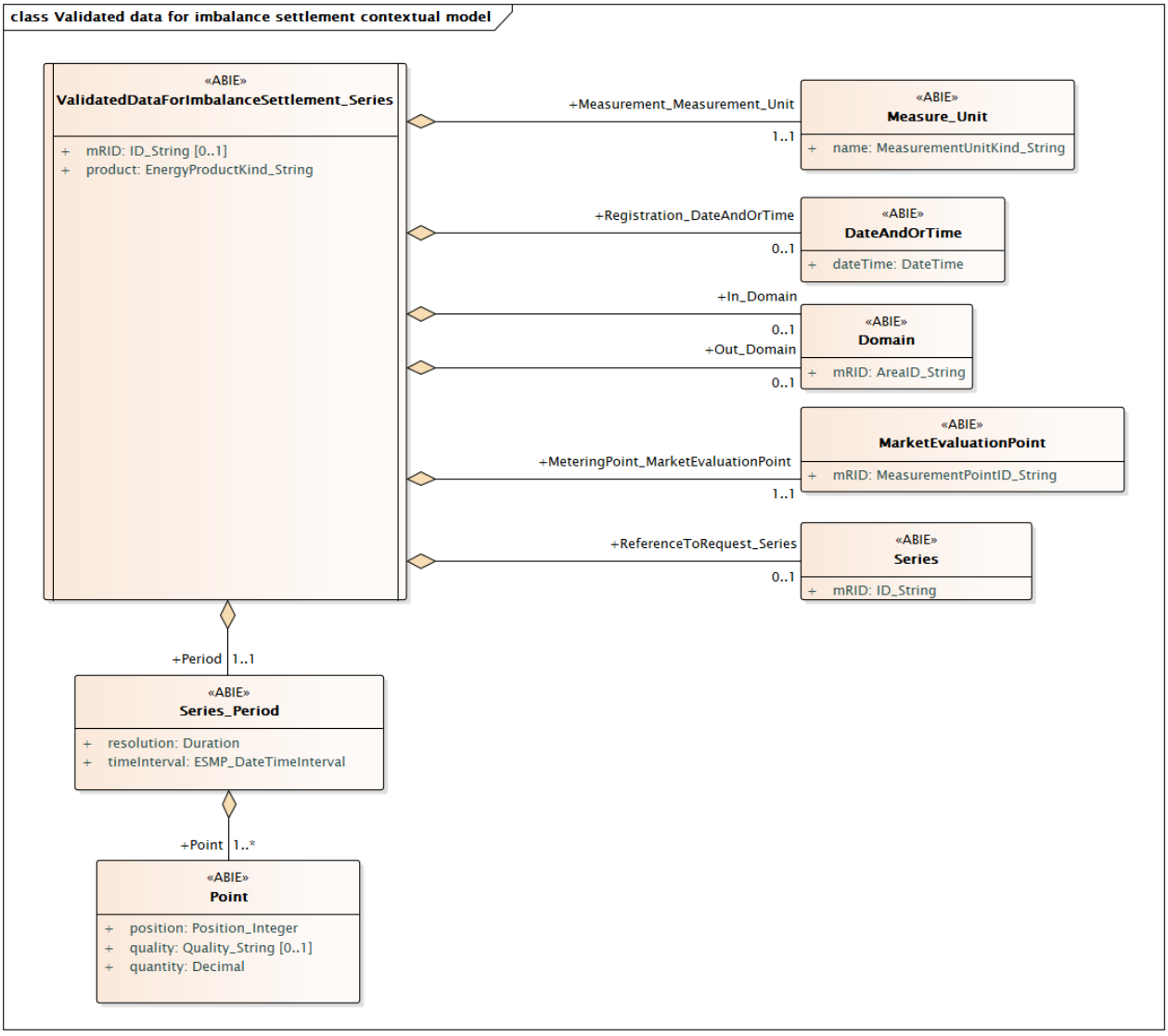
MR #	ebIX® element	To do	Definition	Status
	Connection Status	Already there; Use connectionState attribute in UsagePoint	State of the usage point with respect to connection to the network.	Already approved
	Disconnection Method	Already there; Use disconnectionMethod attribute in UsagePoint	Is an indication of how the usage point is physically connected or disconnected.	Already approved
	Capacity of the Accounting Point	Already there; Use physicalConnectionCapacity attribute in UsagePoint	Quantitative information about the maximum physical capacity of the connection for the UsagePoint.	Already approved
ebIX® 2020/23	Capacity of the Accounting Point	Change the datatype for physicalConnectionCapacity 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.
~~ebIX® 2020/23~~	~~Capacity of the Accounting Point Measure Unit~~	~~Add an association from the UsagePoint class [0..1] to the Unit class [0..1] where the association end name at the Unit side is CapacityUsagePoint MeasureUnit~~	~~The measure unit used for the capacity of the UsagePoint.~~ ~~For gas the maximum capacity for the Accounting Point is given in m³/hour, usually determined by the physical constraints of the (nozzles in the) Meter.~~	Changed, see above

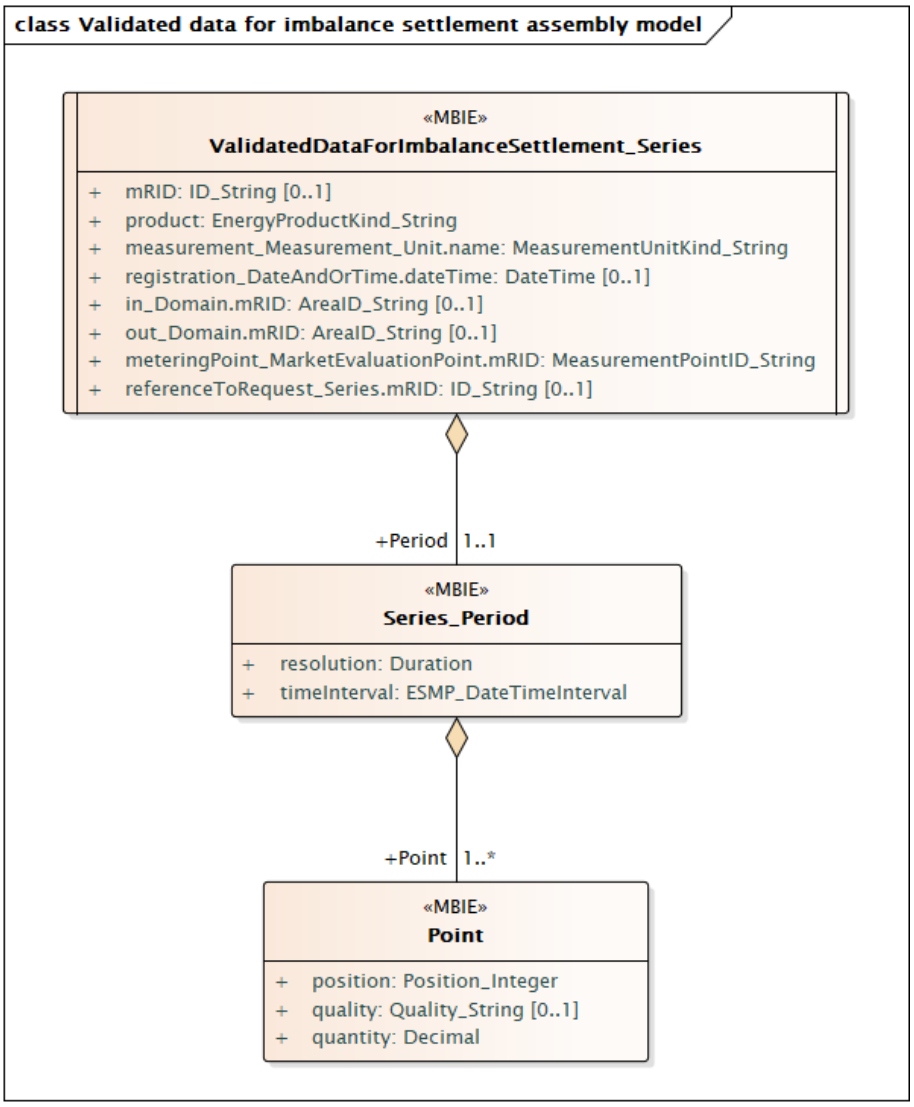
MR #	ebIX® element	To do	Definition	Status
ebIX® 2020/24	Number of phases	Add new numberOfPhases attribute (integer) in the UsagePoint class [0..1] **Remark:** We have noted the phaseCode, but it is not clear how it serves our purpose.	The number of phases in the UsagePoint, either 1 or 3.	***Action:*** Jan (SE) will send the DMR to WG16 to be handled at the meeting March 2nd. **20200221:** MR sent to WG16.
ebIX® 2020/25	Current limitation	Add new currentLimitation attribute (CurrentFlow) in the UsagePoint class [0..1]	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*.
	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~~	~~Voltage Level~~	~~Add new voltageCategory attribute (string) in the UsagePoint class [0..1]~~ ~~**Remark:** In Europe a category (high, medium, low…) is used.~~	~~A code specifying the voltage category of the grid to which the installation of the UsagePoint is connected.~~	MR 2020/26 and 2020/27 will be combined (see below).

MR #	ebIX® element	To do	Definition	Status
ebIX® 2020/26	connectionCategory	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.
~~ebIX® 2020/27~~	~~Pressure level~~	~~Add new pressureCategory attribute (integer) in the UsagePoint class [0..1]~~ ~~**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.~~	
ebIX® 2019/28	MarketEvaluationPointCharacteristic	Add new association from MarketEvaluationPoint class [0..*] to the MarketEvaluationPointCharacteristic class [0..*]		Submitted to WG16. **20200221:** Withdrawn.

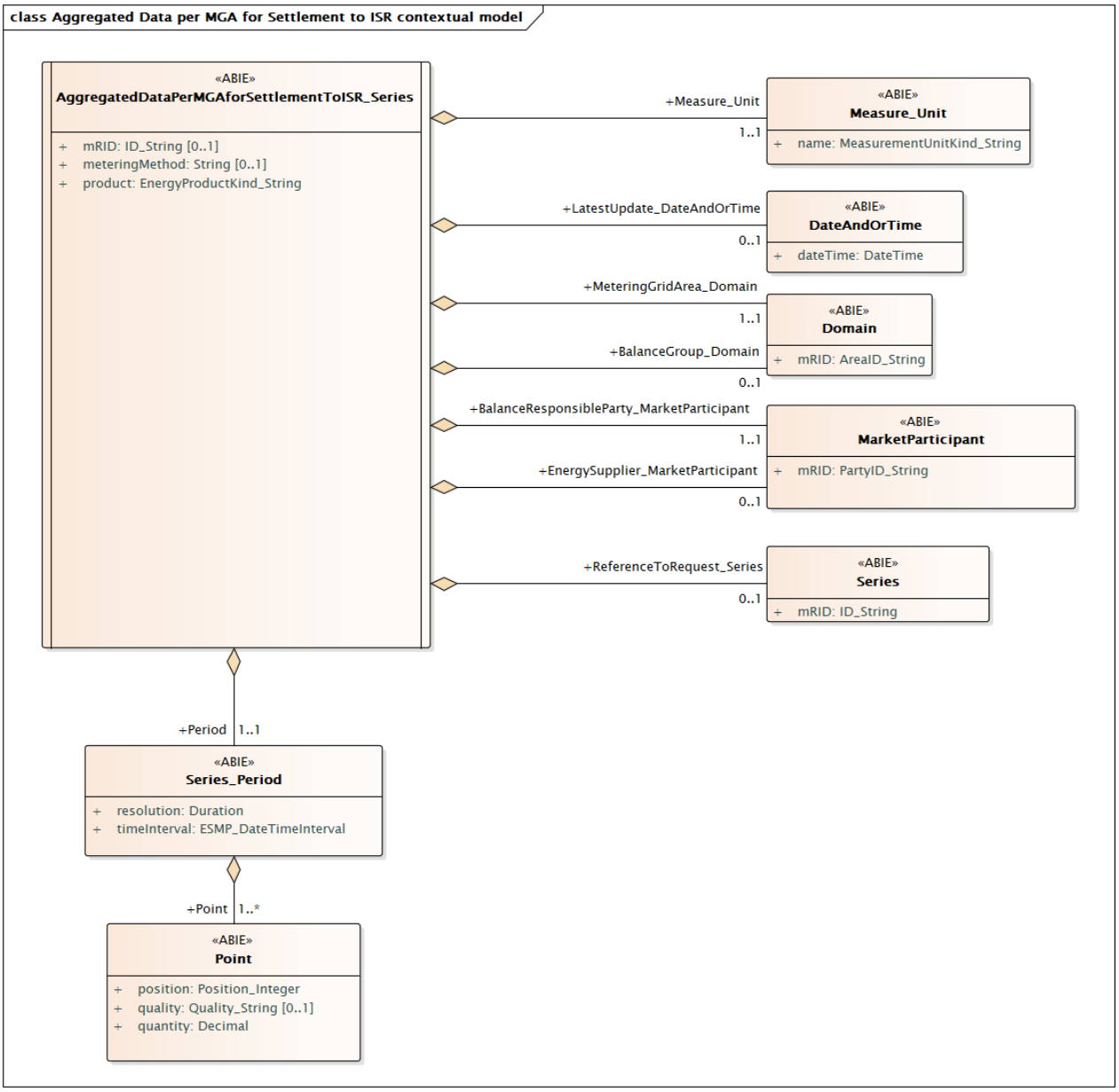
Appendix B CIM based Measure documents

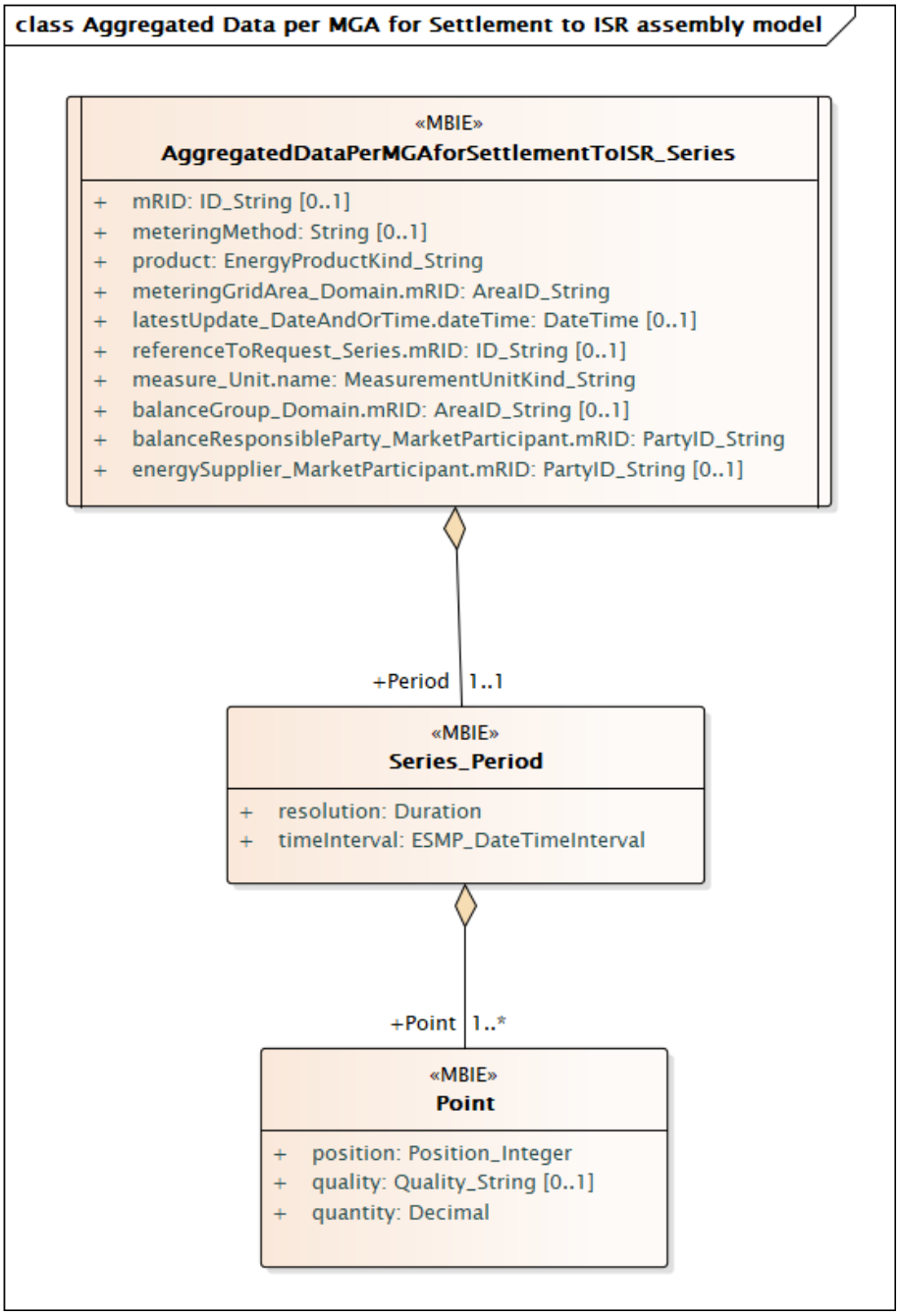
B.1 Validated data for imbalance settlement




class Validated data for imbalance settlement assembly model
«MBIE»
ValidatedDataForImbalanceSettlement_Series
+ mRID: ID_String [0..1]
+ product: EnergyProductKind_String
+ measurement_Measurement_Unit.name: MeasurementUnitKind_String
+ registration_DateAndOrTime.dateTime: DateTime [0..1]
+ in_Domain.mRID: AreaID_String [0..1]
+ out_Domain.mRID: AreaID_String [0..1]
+ meteringPoint_MarketEvaluationPoint.mRID: MeasurementPointID_String
+ referenceToRequest_Series.mRID: ID_String [0..1]
+Period
1..1
«MBIE»
Series_Period
+ resolution: Duration
+ timeInterval: ESMP_DateTimeInterval
+Point
1..*
«MBIE»
Point
+ position: Position_Integer
+ quality: Quality_String [0..1]
+ quantity: Decimal

B.2 Aggregated data per MGA for Settlement for ISR




class Aggregated Data per MGA for Settlement to ISR assembly model
«MBIE»
AggregatedDataPerMGAforSettlementToISR_Series
+ mRID: ID_String [0..1]
+ meteringMethod: String [0..1]
+ product: EnergyProductKind_String
+ meteringGridArea_Domain.mRID: AreaID_String
+ latestUpdate_DateAndOrTime.dateTime: DateTime [0..1]
+ referenceToRequest_Series.mRID: ID_String [0..1]
+ measure_Unit.name: MeasurementUnitKind_String
+ balanceGroup_Domain.mRID: AreaID_String [0..1]
+ balanceResponsibleParty_MarketParticipant.mRID: PartyID_String
+ energySupplier_MarketParticipant.mRID: PartyID_String [0..1]
+Period
1..1
«MBIE»
Series_Period
+ resolution: Duration
+ timeInterval: ESMP_DateTimeInterval
+Point
1..*
«MBIE»
Point
+ position: Position_Integer
+ quality: Quality_String [0..1]
+ quantity: Decimal

Appendix C Comments to the HRM 2020-01 from EBG and ebIX® Billing Project

C.1 Comments from EBG

1. Is it correct to use "metered" in Metered Data Administrator, but "measured" in the definition?

   Metered Data Administrator:

   A party responsible for storing and distributing validated measured data.

   EBG Conclusion:

   - EBG will propose for ETC that ebIX® will suggest for the HG to keep "Metered" in role names, but change to "Measured" in all definitions, to be in line with the term used in the network codes.

   ETC Conclusion (Action):

   - Agreed by ETC . Will be proposed for HG.

2. Should we rephrase the definition of the Balance Responsible Party:

   A Balance Responsible Party is responsible for its imbalances, meaning the difference between the energy volume physically injected to or withdrawn from the system on behalf of the BRP and the final nominated energy volume by the BRP, including any imbalance adjustment within a given imbalance settlement period.

   Conclusion:

   - EBG will propose for ETC that ebIX® will suggest for the HG to review the definition based on Gerrit's proposal above. As now, one could read that the BRP is responsible for any energy in the system.

   ETC conclusion:

   - Rejected.

3. Should we update the definition of Energy Supplier:

   An Energy Supplier supplies electricity to or takes electricity from a Party Connected to the Grid at an Accounting Point.

   Additional information:

   ~~There is only one Energy Supplier for each Accounting Point~~. An Accounting Point can only have one Energy Supplier at a point in time. (*When this is written in HG/HR it should be rephrased, as this can be read as 'only one supplier for all AP's)*

   ~~In case there are additional suppliers, the~~ When additional suppliers are needed the Energy Supplier delivers/takes the difference between measured production/consumption and the (accumulated) contracts with other suppliers. (*This contradicts the previous statement: rephrase or skip - Rephrase could be: "When additional suppliers are needed the ES…." - But there are other solutions!?!*)

   Conclusion:

   - EBG will propose for ETC that ebIX® will suggest for the HG to review the definition based on Gerrit's proposal above.

   ETC Conclusion (Action):

- The following change will be proposed for the HG:

  An Energy Supplier supplies electricity to or takes electricity from a Party Connected to the Grid at an Accounting Point.

  Additional information:

  An Accounting Point can only have one Energy Supplier at a point in time.~~There is only one Energy Supplier for each Accounting Point.~~

  When additional suppliers are needed the ~~In case there are additional suppliers, the~~ Energy Supplier delivers/takes the difference between established (e.g. measured or calculated) production/consumption and the (accumulated) contracts with other suppliers.

A proposal for a new definition of an AP was drafted at the latest EBG meeting:

The administrative entity where responsibilities (roles) are linked to parties and energy exchange is established.

Additional information:

This is a type of Metering Point.

Current definition:

A domain under balance responsibility where Energy Supplier change can take place and for which commercial business processes are defined.

Additional information:

This is a type of Metering Point.

EBG action:

- Kees and Ove will forward the new proposal for AP definition to ETC for possible submission to HG.

ETC conclusion:

- ETC was not in favour of the new definition (for instance the text "where responsibilities (roles) are linked" applies also for Exchange MPs) – suggest a new round in EBG.

C.2 Comments from the ebIX® Billing project

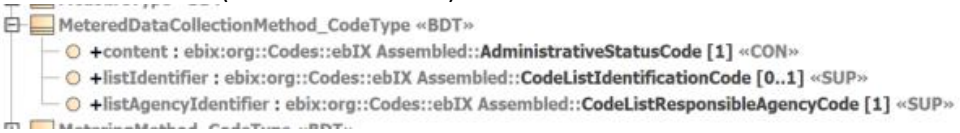
- ETC is asked to bring a change request to the HG for the GAP:
  - A party responsible for providing access to the grid through an ~~Metering Point~~ Accounting Point for energy consumption or production ~~to~~ by the Party Connected to the Grid. The ~~party~~ Grid Access Provider is also responsible for creating and terminating ~~Metering Points~~ Accounting Points.
- ETC is asked to bring a change request to the HG for the MPA:
  - A party responsible for ~~registering~~ administrating the parties linked to the ~~m~~Metering ~~p~~Points in a Metering Grid Area. The party is also responsible for ~~registering~~ administrating and making available the Metering Point characteristics.

ETC conclusion:

- OK – will be sent to the HG
- Also, Capitalise “point” in Metering point” in EA.

Appendix D 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:
    - 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:
    - The BIM is ready for review.
3. Alignment of Metering Configuration Characteristics:
    - 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:
    - 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)
            - 

        - Missing a «BBIE» for MGA Name.
    - Request AP Characteristics:
        - How to map Initiator ID?
    - Reject Request AP Characteristics:
        - Ready for review.
    - Request Change AP Characteristics from GAP:

        - Same comments/questions as for Notify MP Characteristics
    - 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).
    - 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)
    - Confirm Request Creation of new AP
        - Missing an association for GAP from Response_Event to Energy Party

Appendix E Proposed/agreed changes to the ebIX® Business Information Model 2019.A

E.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:

- Postponed

E.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

E.3 BRS for Request Change grid responsibility

a) ETC is asked to find Document Name codes for:
   - Request change grid responsibility;
   - Response change grid responsibility;
   - Notify change grid responsibility;

b) And Business Reason codes for Change grid responsibility.

E.4 Requests from EMD

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

E.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.

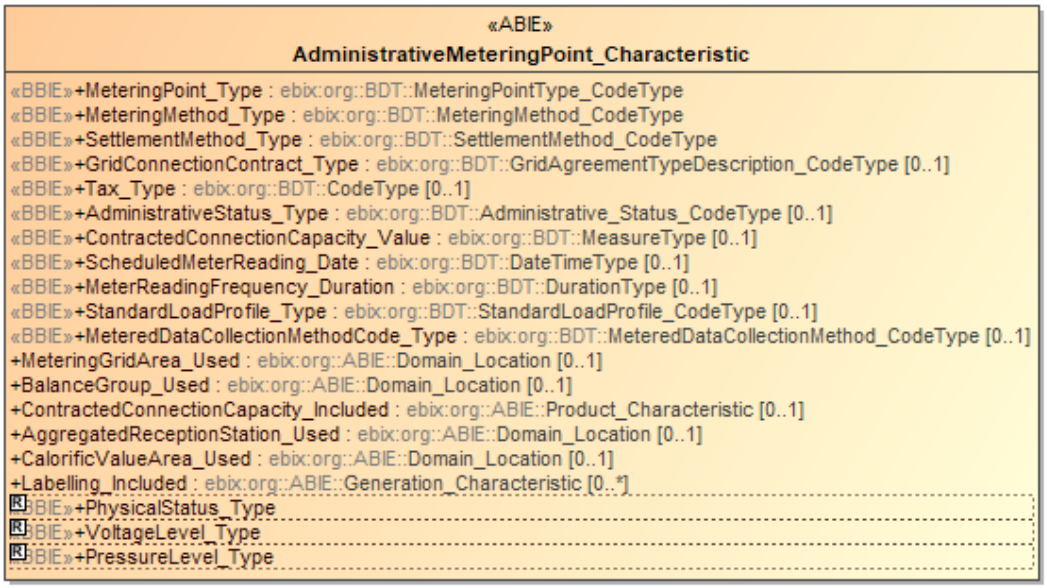
b) Make the usage of "Time of Use" and "Meter Time Frame" consistent
   - Check what is agreed with IEC in the TR
   - Check what is the significance of "Time of Use"/"Meter Time Frame" in the proposal from Atrias
   - Make the ebIX® model (Business requirements view and BIES) in line with the Atrias 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:

- 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="http://www.w3.org/2001/XMLSchema" xmlns:rsm="un:unece:260:data:EEM" ...

and later

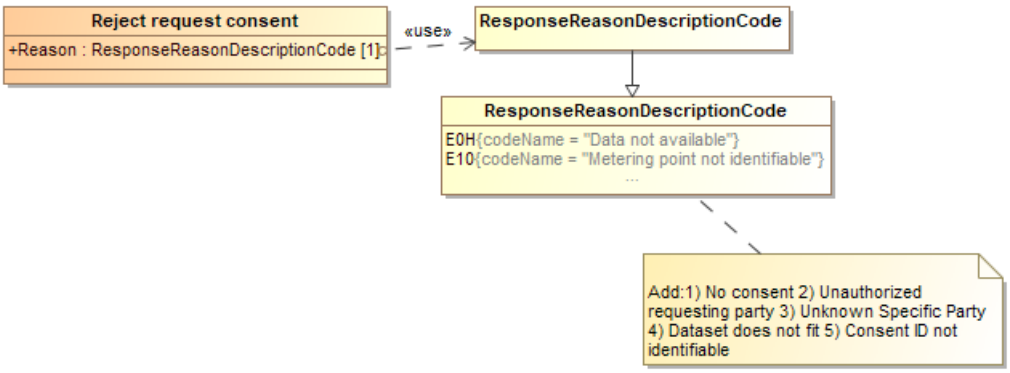
<xsd:element name="ValidatedDataForBillingEnergy" type="crs:ValidatedDataForBillingEnergyType"/>...

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

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

E.6 Code request from EBG

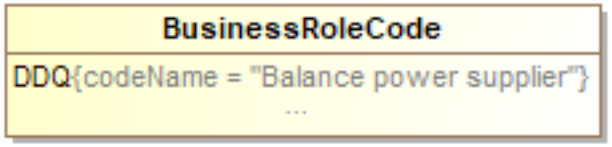
1) For all Reason codes, change (added at ETC meeting 20190212):
   - Balance Supplier to Energy Supplier;
   - Metering Point to Accounting Point.
2) Add remining Reason codes, ref BRS for Customer consent:
   a. Dataset does not fit
   b. Consent ID not identifiable



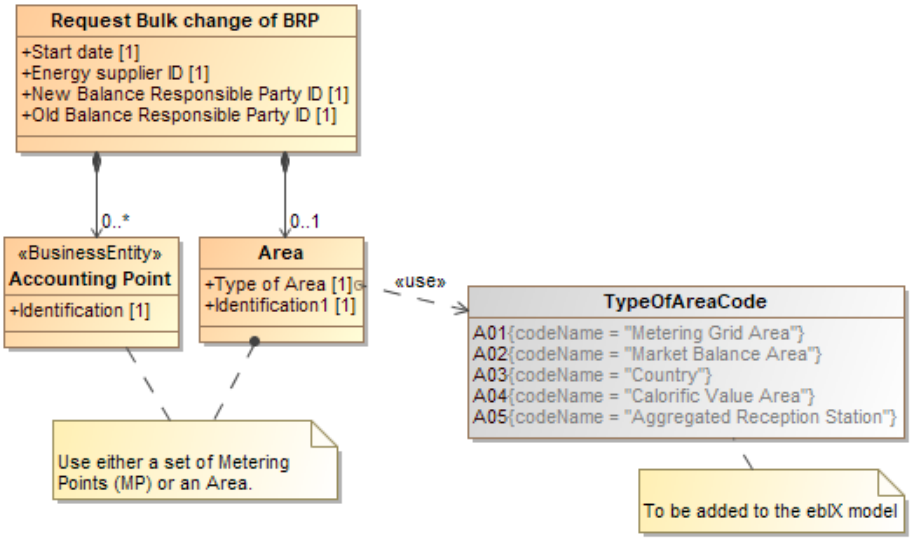
3) ETC will be asked to rename the following Response Reason Description Codes:
   - E10: “Metering Point …” to “Accounting Point ….”
   - E16: “Unauthorised Balance Supplier” to “Unauthorised Energy Supplier”
   - E18: “Unauthorised Balance Responsible” to “Unauthorised Balance Responsible Party”

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

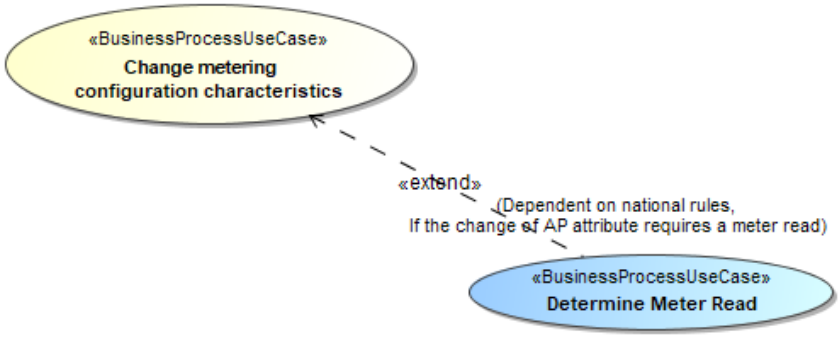
c. Notify consent
d. Termination of consent
e. Notify withdrawal of consent
f. Request termination of consent
g. Response request termination of consent
h. Request withdrawal of consent
i. Response request withdrawal of consent
j. Notify termination of consent
k. Request valid consent
l. Response request valid consent

8) New Business Reason Codes
   a. Consent administration
   b. Change of Shipper

9) New Document Name Codes
   a. Specific Party

E.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”.



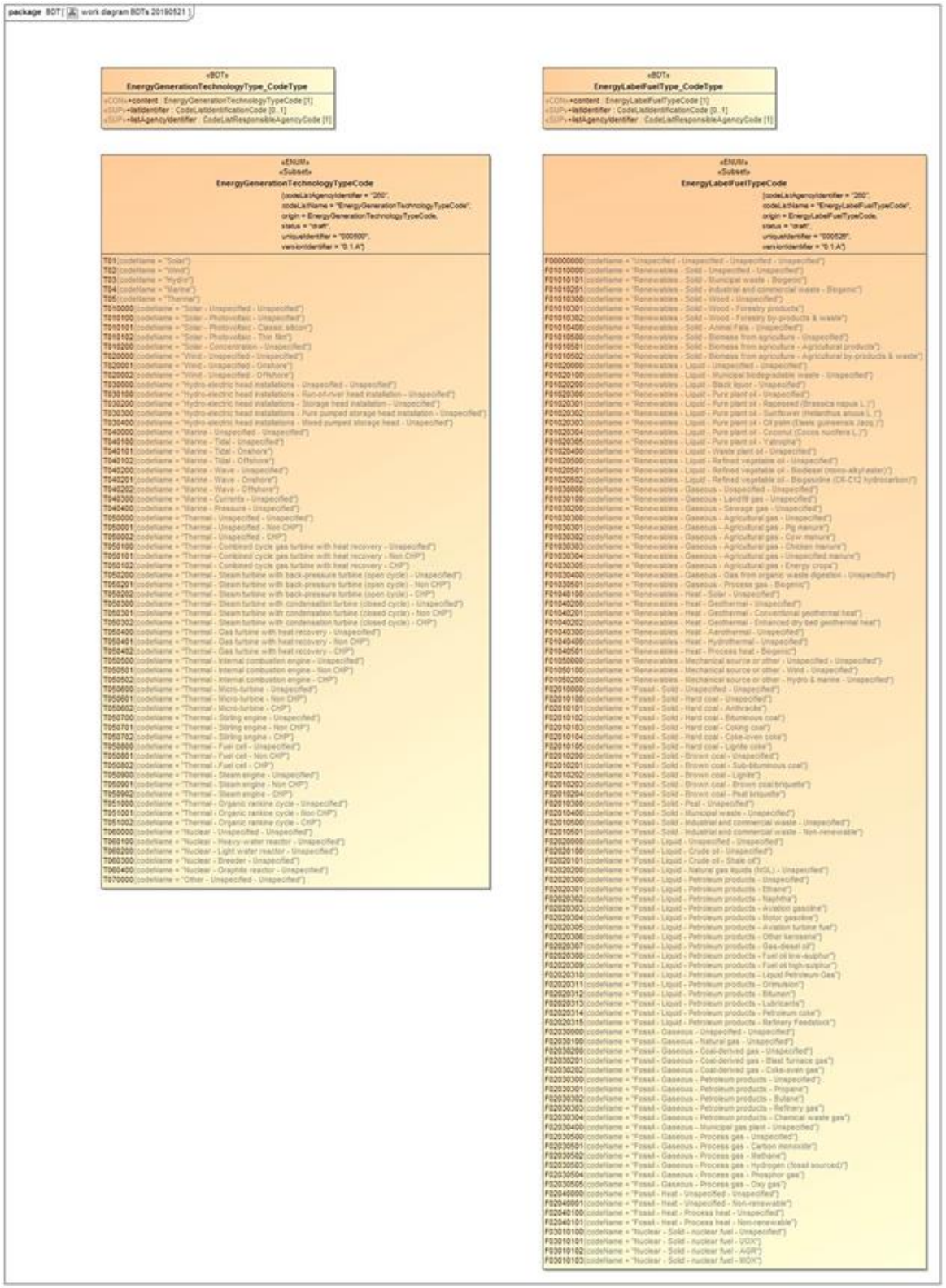
E.8 New codes from Sweden

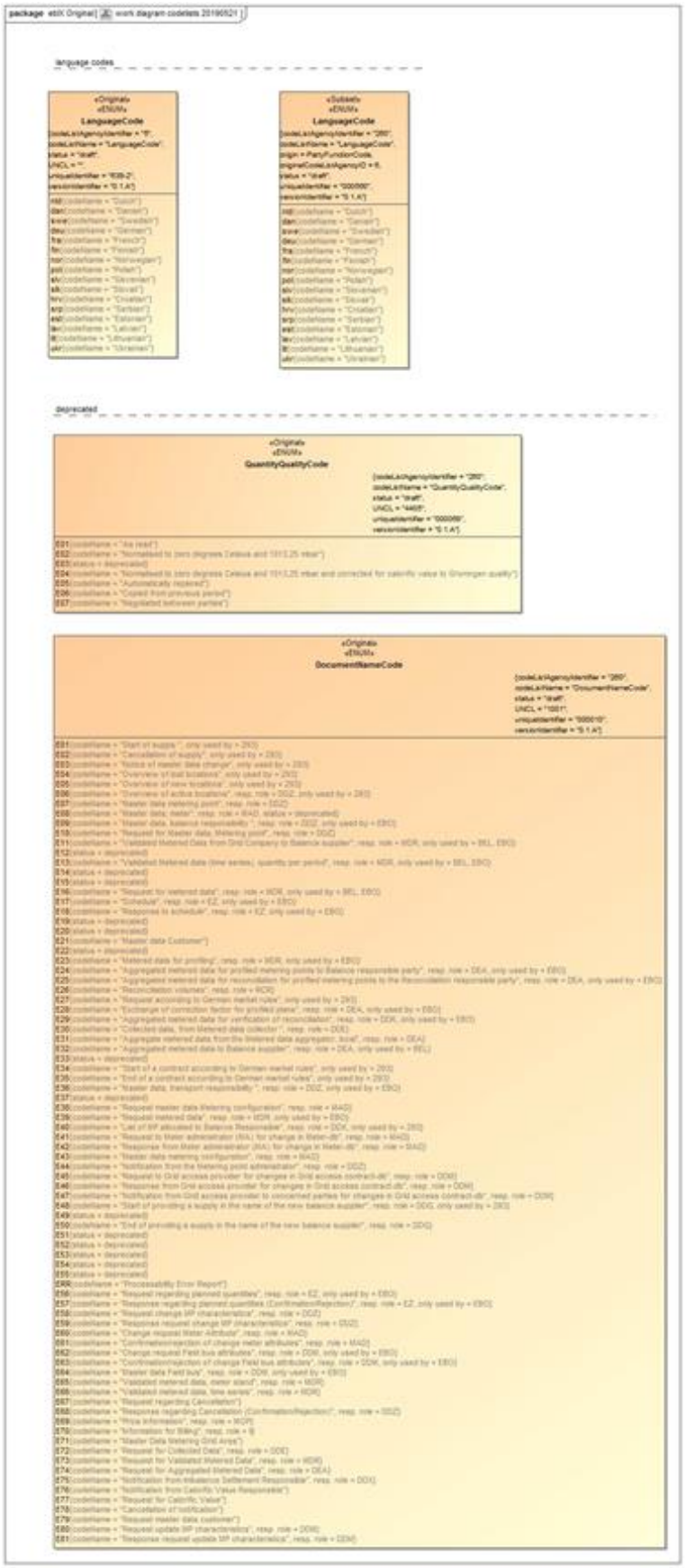
1. In 6.1.1.2 in the (soon) published code list I find the list of Swedish “Document Name Code”. A new code will be used now in April 2019: **S08** Accepted bids. (We are using this code in UTILTS messages sent in Operation phase. Earlier we have just used UTILTS in the metering and settlement phases.)

E.9 Codes without a code name

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

Appendix F Update of ebIX® profile after meeting May 15th 2019




package ebIX Original [work diagram codelists 20190521]
language codes
«Original»
«ENUM»
LanguageCode
«Subset»
«ENUM»
LanguageCode
deprecated
«Original»
«ENUM»
QuantityQualityCode
«Original»
«ENUM»
DocumentNameCode

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