Minutes ETC meeting, October 20th and 21st, 2014

Date: Monday and Tuesday, October 20th and 21st, 2014
Time: 12:00 – 18:00 and 09:00 – 17:00
Place: Warsaw
Present: Bartosz Orlewicz, PL, RWE, Bartosz.Orlewicz@rwe.pl (first day)
Pawel Borkowski, PL, RWE, Pawel.Borkowski@rwe.pl (second day)
Christian Odgaard, DK, Energinet.dk, cco@energinet.dk
Hieronim Szwabowski, PL, ENERGA Operator, Hieronim.Szwabowski@energa.pl
Jan Owe (Convenor), SE, Svenska kraftnät, Jan.Owe@svk.se
Kees Sparreboom, NL, TenneT, kees.sparreboom@capgemini.com
Ove Nesvik (Secretary), NO, EdiSys, ove.nesvik@edisys.no
Fedder Skovgaard, DK, Energinet.dk, cco@energinet.dk
Thibaut Hellin, BE, Atrias, thibaut.hellin@atrias.be
Appendixes: **Appendix A**, Pending list
Appendix B, The tasks of ETC
Appendix C, Participants in ETC
Appendix D, Missing register indicator

Belgian-German homework following last ebIX gas group
Appendix F, ebIX® Rules for addressing (routing)
Appendix G, ebIX® gas group: request new code MeterReadingOrigin

Attachment:

, see item 8.8, Production and fuel types

, see item 8.8, Production and fuel types

, see item 8.8, Production and fuel types

, see item 9, Code lists from MD model in Word format

, see item 9, Code lists from MD model in Word format

1 Approval of agenda

The agenda was approved with the following additions:

- Expectations from Poland, see new item 3
- Meter Read and CEFACT comments to ebIX® ABIE, see new item 4
- Code request from the ebIX® Gas project, see new item 8.5
- Illegal character in UTF-8, see new item 8.6
- UNCL (UN/CEFACT Code Lists), see new item 8.7
- Production and fuel types, see new item 8.8
- Versioning of BIMs, see new item 8.9
- UNECE_MeasurementUnitCommonCode_9.xsd, see item 23.1 under AOB
- Capacitive and Inductive power, see item 23.3 under AOB
- Review of member list, see item 23.3 under AOB
- Creation of PDF documents, see item 23.4 under AOB

2 Minutes from previous meetings

The minutes were approved

3 Expectations from Poland

Bartosz informed that there currently is no standardised data exchange between the actors in the Polish market. A first draft of a business requirement specification (BRS), among others based on the ebIX®

BRSs, is currently being discussed among the Polish actors. The Polish participants at the meeting wants to understand how ebIX® are working and how they can get the most out of an ebIX® membership.

Jan informed that the ebIX® business requirements are defined in the two ebIX® business groups, CuS (Customer switching and other structuring processes) and EMD (ebIX® Metered Data group). The technical implementation of the business processes, such as the ebIX® Information model (Core Components etc.) and XML schemas, are handled in ETC (ebIX® Technical Committee).

During this item, Pawel informed that Poland currently are using Enterprise Architect (EA) for modelling entities for information exchange (business requirements). For describing the business processes, Visio is used.

Thibaut informed that Belgium tried to import the ebIX® Magic Draw (MD) model into EA, but gave up after three tries. The alternative was to recreate all CCs in EA and this was seen as too much work. One of the complication issues is that the ebIX® model is based on separate modules for CCs, UMM stereotypes etc.

Kees informed that there are almost no relations between the UMM Business Requirements View and the UMM Business Information View, hence it is possible to continue using EA for requirements and start using MD when going to the information view.

Conclusion:

- The advice from ETC is that Poland continue using EA for the business requirements and use MD when making the information model

4 Meter Read and CEFACT comments to ebIX® ABIEs

4.1 Structure of "Energy Meter Read"

After the previous ETC meeting we proposed the class diagram in **Figure *1***, i.e. we added the class "Energy Meter Read" directly under "Energy Time Series", in addition to under the set "Meter Facility", "Register Facility". The "Energy Meter Read" class is only used for sending meter stands. Related volumes are sent in the "Energy Observation" class.

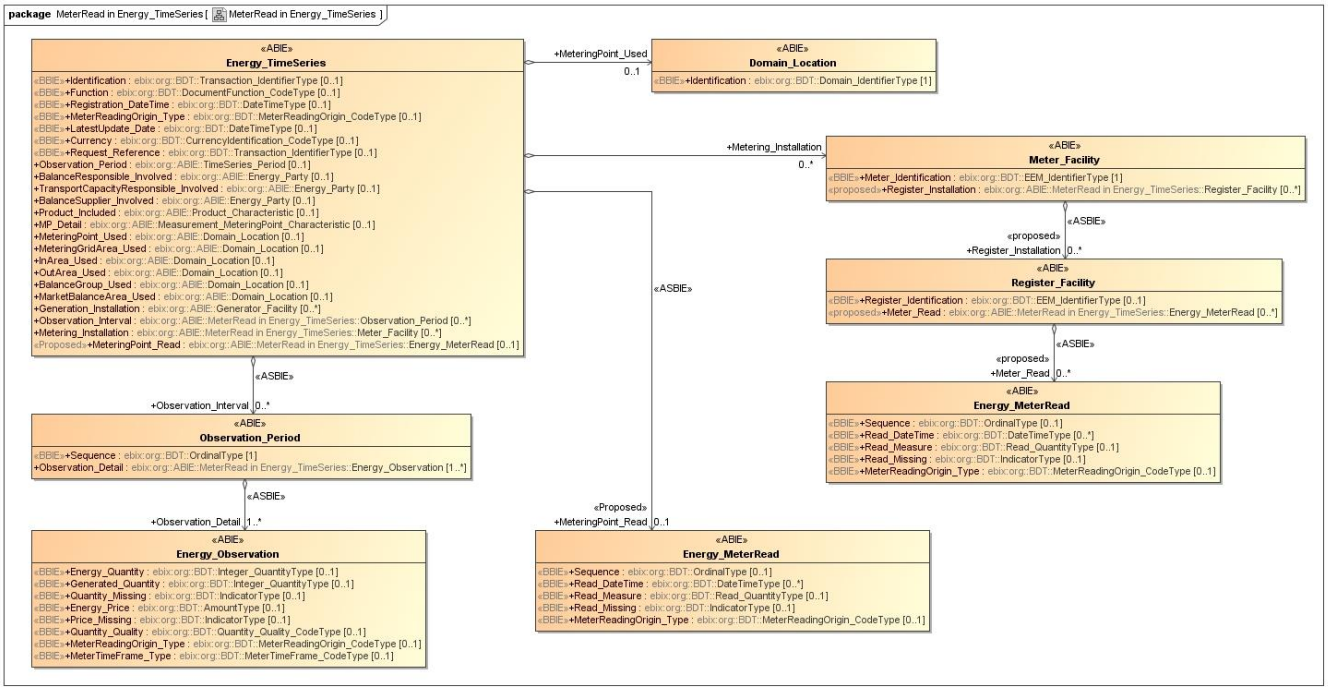

Figure 1 Meter read - Energy Time Series

Kees wanted to reopen the discussion related to the need for having the class “Energy Meter Read” directly under “Energy Time Series”, based on a discussion in EMD. I.e. all participants at the EMD meeting could accept having the “Energy Meter Read” *only* under the set “Meter Facility”, “Register Facility”.

Christian and Fedder informed that the Danish solution is to send “Energy Meter Read” directly under “Energy Time Series”. The only time a Meter ID is sent is when changing the Meter.

Jan and Kees informed that in Sweden and the Netherlands the register ID normally is a code for the Meter Time Frame, Such as D=Day and N=Night. In Denmark and Norway, Time Frames are not used.

Thibaut also wanted the solution proposed after previous meeting. In addition Thibaut proposed adding a XOR relationship between the “Meter Facility” and “Energy Meter Read”. However, the latter was not taken into account.

The ”Read DataTime” in “Energy Meter Read” was changed to [0..1] and the association from “Energy Time Series” to “Energy Meter Read” was changed to [0..*]

Conclusion:

- We keep the structure as shown in **Figure *1***, with after the following changes:
  - ”Read DataTime” in “Energy Meter Read” will be changed to [0..1]
  - The association from “Energy Time Series” to “Energy Meter Read” will be changed to [0..*]

4.2 UN/CEFACT Core Component Maintenance Group

Kees showed a list of comments from the UN/CEFACT Core Component Maintenance Group regarding the Excel spreadsheet ebIX® has sent to UN/CEFACT with our Core Components:

> We have noticed some particular points which need some adjustment to comply with the UN/CEFACT Library CCL implementation rules:
>
> 1) Cardinalities should be expressed in 2 separate columns and we use 'unbounded' rather than '*'
>
>   Change in TT/spreadsheet
> 2) Property Terms should not be the same as the Representation Terms for BCCs
>
>   Kees will check with Sue what she means
> 3) Property Terms should not be the same as the Associated Object Class names for ASCCs
>
>   Ove reviews CuS ACC's
>
>   Kees reviews EMD ACC's and updates the ebIX module
>
>   To be finished 15th of November
> 4) All CC names must follow the naming convention which states that all multiple words in name parts must be separated with a space e.g. Time Series rather than TimeSeries etc.
>
>   TimeSeries is the way this is written in the energy sector (incl. IEC).
>
>   Kees will check CCTS for other instances like role names (Balance Responsible Party instead of BalanceResponsibleParty ??)
> 5) Please only include library objects which you wish to add to the current library or to change. When requesting changes please document your required change in the Submitters Comment column
>
>   No problem
> 6) You do not need to include any UN IDs for new submitted objects although the UN ID references should be included for any change submissions
>
>   OK

Some more comments:

- Property Terms should not be the same as the Associated Object Class names, i.e. we will have to change association end names that are the same as the class the association point to. E.g. we cannot have an association end name called "Address" pointing to the ACC "Address".
- According to CCTS v3:

  > [C12] The space character shall separate words in multi-worded CC object class, property, and representation terms.

  This means that we probably must add space between the words in our CCs, such as writing Balance Responsible Party instead of BalanceResponsibleParty. Kees will inform the UN/CEFACT Core Component Maintenance Group that ebIX® prefer having CCs without spaces in the UMM model.
- Kees informed that the UN/CEFACT Core Component Maintenance Group agree that ebIX® only send in CCs and not BIEs.

Homework:

- Kees and Ove will check the EMD and CuS models for "duplicate names" in association end names and the related class, within mid-November (November 15th)

5 Preparation for ebIX® Forum:

5.1 How to get more participants in ETC (Germany, Slovenia, Poland, Norway…)

Due to lack of time the item was postponed.

5.2 Making an ETC status presentation for the ebIX® Forum

ETC and HG status presentations were made.

6 Status IEC

Jan reported from the IEC/TC57/WG16 meeting in Redmond (US), September 10th – 12th:

- It was agreed making a "Technical Report" regarding how to map from ebIX® CCs to CIM for "Collected Data"
- Jan has got a template for a Technical Report from the Danish national representative to TC57
- A first meeting with Jan, Fedder, Kees and Ove, and if possible Jan Luc Sanson, was agreed November 21st. It will probably be a Lync (or GoToMeeting) conference.

Action:

- Jan will make an agenda for the meeting
- Kees will invite Jan Luc Sanson
- Jan will ask Anne Stine if Svein Olsen or some other from Statnett are willing to participate

7 Smart grid

Due to lack of time the item was postponed.

8 ebIX® Business Information Model 2014.A

8.1 Review of CuS BIMs

Ove (Erik) had as homework from previous meeting to give priority to finalising the following BIMs and send them on circulation for comments to ETC (three weeks) before publication:

- Update according to comments from previous meeting, send it to ETC for comments for three weeks and thereafter publish them:
    - Change of Supplier (updated after review on previous ETC)
    - End of Supply
    - Change of Balance Responsible Party

Status: Ove had published the BIMS as version 2014.A. However, this was a bit early, since Kees had some comments to the BIMs and in addition we agreed to update the MD model before publishing the ebIX® Model version 2014.A. The BIMs were therefor removed from the ebIX® web site.

The rest of the BIMs (for review by ETC) were postponed until beginning of 2015, due to budget limitation, except for Align MP Characteristics, which was prioritised.

- Change of Metered Data Responsible
- Change of Transport Capacity Responsible Party

- Customer Move
- End of Metered Data Responsible
- Query MP Characteristics

ETC had received some remarks from Gerrit to the BIMs for Change of Supplier, End of Supply and Change of Balance Responsible Party:

- I think the BIMs are to be used by business analysts type of people.
  - Sometimes it feels a little overdone and sometimes there are only 'pictures' and some explanatory text would be useful.
- I strongly recommend to split the document in a business part and a more technical part.
- In the current document in my view the OCL statements should not be there – makes the document completely unreadable.
- In the document I see a uniform message like MP event and MP response – this in my view in in contradiction to the way we work uptill that point. In the message (xml) this is slightly better. In the payload there is always the same set.
  - So on the one side everything is according to UNCEFACT naming and design rules and on the other hands all content is the same (meaning you need a lot of extra intelligence in the receiving/sending applications.
  - In our experience the NDR way of breaking the messages in parts an build them up dynamically is not a good practice (could be for wholesale processes with limited numbers, but for downstream processes this does not work (we have more than 25 million messages per month))

The comments from Gerrit was briefly reviewed:

- Christian thinks that these questions is more for the ebIX® Forum instead of ETC, since the questions more is directed at the UN/CEFACT UMM
- The questions are also linked to a possible harmonisation with IEC, which may influence the way we document the future information views
- ETC takes the comments "ad notam"

Kees comments to the CuS BIM for change of supplier was reviewed with the following comments:

- Choices, such as shown below, must be split into two separate business transactions, i.e. «InfEnvelopes». The only place where such a choice can be used is for a choice between rejection or confirmation:

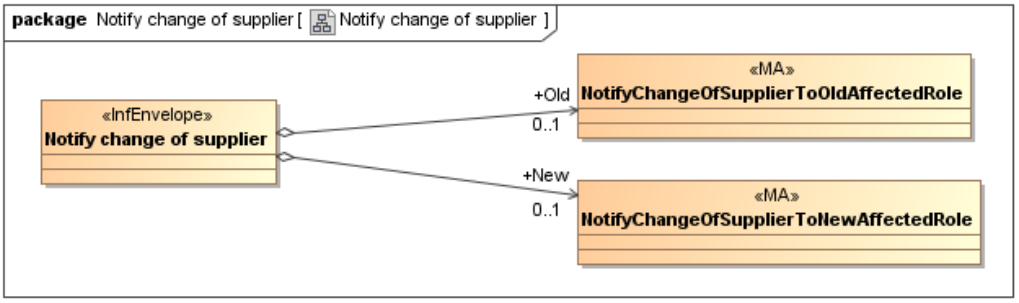

Figure 2 Example of Illegal choice in the CuS BIMs

Homework:

- Ove (Erik) will give priority to finalising the following BIMs when version 2014.A of the ebIX® model has been finalised. Also taking into account the comments from Kees to the BIM for CuS (see above). Thereafter send them on circulation for comments to ETC (three weeks) before publication:
    - Change of Supplier (updated after review on previous ETC)
    - End of Supply
    - Change of Balance Responsible Party
    - Alignment of MP Characteristics
- Do the rest of the BIMs (for review by ETC) in the beginning of 2015:
    - Change of Metered Data Responsible
    - Change of Transport Capacity Responsible Party
    - Customer Move
    - End of Metered Data Responsible
    - Query MP Characteristics

8.2 Review of EMD BIMs

Homework:

- Kees will finalise the EMD BIMs when version 2014.A of the ebIX® model has been finalised. Thereafter send them on circulation for comments to ETC (three weeks) before publication.

8.3 National code lists in the ebIX model

Belgium had not yet managed to verify that the national Belgium code lists will work with the latest ebIX® model (2014.A), i.e. the tem was postponed.

8.4 Code questions from the ebIX® Gas project

Kees had as homework from previous meeting to verify with EDIgas if the "D90 = Net Cubic Meter" is the same as "Normalised Cubic Meter". Kees has investigated, but not yet got a final answer. The question will be followed up at the next meeting.

Some comments:

- ebIX® prefer to use UN Recommendation 20 codes for Measure Units
- It seems that EDIgas uses their own codes for some measure units that are available in UN Recommendation 20. These will be verified with EDIgas.
- We have a Caloric Value Responsible, but we need a new document type, i.e. Notification from Caloric Value Responsible

Action:

- We add a new document type code ("Enn") for Notification from Caloric Value Responsible
- The rest of the item was postponed until next meeting

8.5 Code request from the ebIX® Gas project

The ebIX gas group had informed that they need a new code for *Meter Reading Origin*, see **Appendix G**.

Jan had sent in the following comments regarding the request:

The current codes for MeterReadingOrigin are:

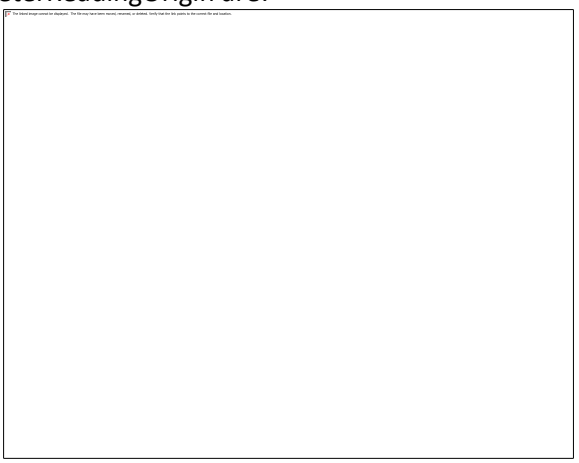

Figure 3 current codes for MeterReadingOrigin

…

The other “From” parties here, are roles within the role model. But this “From data logger”, then “data logger” is of course not a role. As I understand it, it is a storage within the meter. Such a storage are not to be found in each meter, but probably in all modern meters. What the recipient wants to now, is if this metered value (this meter stand) is good enough or if it might be changed. Or as you write “The effect is, that these data are of a temporary nature, but can be used for the time being.”

I.e. getting this value, coded here as “From data logger” will result in two possibilities:

1) You will never get another value, i.e. you will use it, put it on the invoice to the customer or whatever process this value is involved in. Even though you have some doubts about the quality of the value.
2) You will get a new value, hopefully before you have sent the invoice to the customer, then with another “MeterReadingOriginCode”.

Are then E26, E27, E28 defined as having better quality than this “From data logger”?

In Sweden we are currently using the three codes like this:

E26 = Read by party connected to grid (very rare in Sweden, typically only used by customers with the diagnose electromagnetic hypersensitivity)

E27 = Read “by the DSO” (or actually “by the Metered data collector”), i.e. mostly used

E28 = Estimated “by the DSO” (or actually “by the Metered data responsible”), to be used when you didn’t get a metered value from the collector/collection process and had to estimate the meter stand.

This new code, is it worse than what can be estimated by the Metered data responsible, or is it better? Is it used in the E66 message sent to the supplier for his billing process, or is it used in the collection process (E30 message)?

Together with this meter stand, I expect there is sent also a volume. If the meter stand has poor quality, then the volume will also be affected. However, volumes can be sent without meter stands so the handling of quality linked to a volume might be separated from the quality linked to the meter stand.

What I actually is pointing to here as the important information, is, not the *origin* of the meter stand, but the *quality* of the meter stand. I.e. can we trust and use the meter stand.

I would like to send this to EMD and ask what the process wants to know, is it the origin, is it the quality – or both.

The suggestion we have for the future in Sweden is to just specify if the meter stand is "estimated" or not. I.e. since we (in all Nordic countries rather soon will) have Automatic Meter Reading, that would be enough. Then of course there is another discussion related to the volume – what should be said about the quality there? But here we are talking about the meter stand and my suggestion would be not to add "From data logger", not before the need of "origin" and "quality" of meter stands have been discussed in EMD. And it looks like what you want to say is that the quality might be bad, the value might be changed, then I don't think it is the origin that is the most important information to send. And "From data logger" tells me less, than for instance "Estimated" or "To be replaced/Temporary".

Conclusion / Action:

- ETC ask the ebIX® Gas Project to re-discuss the request for a MeterReadingOrigin, to see if a Meter Reading Quality can be used instead.

8.6 Illegal character in UTF-8

Ove had downloaded the latest version of XMLSpy (2015). When opening ebIX® XML schemas it gave an error message, saying that ä (in Svenska kraftnät) not is valid in UTF-8.

The problem seems to be that the TT stores these special (national) characters (e.g. ä) in another character set than UTF-8.

Conclusion:

- The problem was added to the list of need updates for the TT.

8.7 UNCL (UN/CEFACT Code Lists)

From Kees:

The codes that we have requested from UN/CEFACT for the roles Market Operator (MOP), Reconciliation Accountable (RCA) and Reconciliation Responsible (RCR) are officially in the CEFACT code list. So I have now also replaced the temporary ebIX codes for these roles by the official CEFACT codes (in the <<subset>> BusinessRoleCode in the ebIX-module and in the PartyFunctionCode in the cefact-module).
Un/Cefact has also corrected some issues in the Agency code list. VDEW is now BDEW, ebIX is still ebIX, NEG is now officially code 330. I have brought the ebIX module in line with this new version. Code 305 is by the way still for ETSO (not changed into ENTSO-E yet).

Does by the way anyone recollect why we have the codes 86 and 89 (for respective “Assigned by party originating the message” and for “Assigned by distributor”)?
Do we still need code 82 for “Enhetsregisteret ved Bronnoysundregisterne” in Norway?
You find the updated ebIX- and CEFACT-profile for MagicDraw attached.
Regards, Kees

PS of course we now have take care with the BRS-documents where we will find these new codes in each subsetted code list in the class diagrams! To be updated in MagicDraw BRS version.

From Thibaut:

We are using the code 86 in Belgium for the identifiers we defined in Belgium (outside international standards).

For example, for the EAN we use the 9 (GS1) but for what we call the Service Component (a 10 positions key) we use the 86.

(**inv:** self.Payload.SDP_Used.ServiceComponent_Identification.schemeAgencyIdentifier= CodeListResponsibleAgencyCode::86)

From Jan:

We are using the code 89 in Sweden for those Metering point id:s that are issued by the DSO (or assigned by the TSO), e.g. not yet GS1 coded. Typically several production metering points and exchange metering points.

We are slowly going from those Id:s but it will take some time, and it is not (yet) required to have an id based on international standards like GS1.

From Ove:

The code 82 for “Enhetsregisteret ved Bronnoysundregisterne” in Norway is not used any more in the Norwegian energy industry and can be removed.

From Alexander:

Actually we are using code “89 – Assigned by distributor” (and we make a further definition “only DSO”) in Germany. The other codes 82 and 86 have no use in our messages.

Conclusion:

- We keep the codes 86 and 89
- We remove the code 82

Action:

- Kees will updated the ebIX® model

8.8 Production and fuel types

From Kees:

During our latest ebIX EMD meeting we stumbled over the choice of codes for origin / production type / fuel type for production of electricity. The issue has also been on the agenda

of ebIX ETC in meetings since. Finding out what should be the basis for codes we use proved to be not so easy. Finally with some help from AIB's secretary general (Phil Moody) thereafter some additional from persons at TenneT I think I can present you the overview.

The suggestion of Phil Moody is, that the CEN standard should be nowadays the basis for all.
I hope and expect that this information will help us in our discussions and finally in our choice.

Conclusion:

- We will use the Technology codes from annex B in the CEN standard "EN 16325:2013" when type of production is needed
- Kees and Ove will inform EMD and CuS of the conclusion

8.9 Versioning of BIMs

Erik had informed that Statnett is making a requirement specification for an Elhub test and certifying module. During the project, a requirement for addition of two new elements has turned up, i.e.:

I. Version, i.e. which version of the documentation is the document based on. The version will be used to know for which version an actor is certified.
II. Indicator for test or production. Similar to the test flag found in the EDIFACT/UNB segment. Will be used for responding documents to the actors, to split test documents from production documents.

The Elhub project suggest adding these elements in the "root element" with the names BIMVersion and TestFlag. BIMVersion is required, while the TestFlag is dependent.

Version of the XSD is proposed implemented using the filename of the XSD, e.g.:

```
RequestStartOfSupply BIMVersion="1.2" TestFlag="true" xmlns="un:unece:260:data:EEM"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="un:unece:260:data:EEM RequestStartOfSupply_10A.xsd">
```

From discussion:

- Test flag:
  - Jan informed that the test flag not is used in the Swedish test system, since the test documents are coming from a special actor (Ediel-portal/test) and the receiver can see that it is a test document from the sender of the document.
  - Experience from usage of test flag in EDIFACT is that the actors forget to add, or remove, the test flag when changing from test to production or vice versa
  - Why not using the SOAP header instead of in the beginning of the root schema

    Advice: Since no other country sees the need for a test flag, please think it over very carefully before continuing

- BIM version
  - All participants at the meeting were sceptical to add a BIM version. To simplify, there should be enough with one version, i.e. the "namespace version". Almost all changes,

such as addition of a code, should result in a new version of the schemas, hence the version in the namespace could be used ("version="2011.A")

Advice: Use one version for the complete model, i.e. use the version of the schemas and don't add a new level of versioning (BIM version)

Action:

- Kees will add a sentence or two to the "introduction to ebIX® models, stating why a test flag not is included in the ebIX® documents

8.10 Publication of ebIX® model version 2014.A

After Kees and Ove has done the homework from item 4.2 the MD model version 2014.A will be published, i.e. mid-November.

Action:

- Kees will publish the MD model version 2014.A as soon as the homework from item 4.2 is done.

9 Code lists from MD model in Word format

Erik (Edisys) had as homework from previous meeting to try adding an extra column "Owner", containing the enumeration (Original, Subset…), using a smaller font size for the new column

- If difficult, Erik is asked to see if there are other ways of showing the "owner"
- Thereafter extract all code lists and put it into a Word document
- At the next meeting it will be decided what to publish at the ebIX® web site

From Erik:

Attached you will find a Word document containing ebIX codes extracted from MD.

The codes are extracted from the packages:

- ebix External::ebix National
- ebix Original
- ebiX Subset

within ebix:org::Codes

I have looked for a better way to generate the content of the Qualified Name column, for instance removal of ebix:org::Codes as prefix for all entries (according the comment from Kees) but did not succeed.

There is a lot of manual work in connection with creation of generic tables. This is due to that when new code lists are included into the generic table, the code values are sorted in descending order. I have sorted the values manually by using the Up and Down buttons in the Generic table window. The manual sorting takes some processing time in MD especially when the generic table contains many rows.

Thibaut showed the way Atrias present the code lists, i.e. as Excel sheets, where the sorting is done outside MD. In addition to the information in the proposal from Erik, the Atrias sheet includes some extra columns, such as "Unique ID".

The generic table need to be placed in the ebIX® profile.

Homework:

- Kees will make a code list based on Generic Table and distribute to ETC for acceptance (one week)
- If accepted it will be published

10 TT (Transformation Tool)

Due to lack of time the item was postponed.

11 ebIX® technical documents

Due to lack of time the item was postponed.

12 ebIX®, EFET and ENTSO-E Harmonised Role Model

Due to lack of time the item was postponed.

13 Specifying conditions in State diagrams

Due to lack of time the item was postponed.

14 Header and Context information in the Business Requirements View

Due to lack of time the item was postponed.

15 Missing Register Indicator

See **Appendix D**. The topic was covered under item 4.1, Structure of "Energy Meter Read". The conclusion was that the Missing Register Indicator was removed.

16 ebIX® project for alignment with the gas sector

Due to lack of time the item was postponed.

17 Creation of an ebIX® technical presentation

Due to lack of time the item was postponed.

18 Review of ETC tasks in Appendix B

Due to lack of time the item was postponed.

19 Information from tWG (if any)

No information exchanged.

20 Benchmark test of different xml schema versions

Due to lack of time the item was postponed.

21 Status for UN/CEFACT project for Alignment of Master Data for Metering Point and of Measured Data

Due to lack of time the item was postponed.

22 Next meeting(s), including start and end time.

- Tuesday January 20th, 09:15 – 17:00 (18:00?) and Wednesday January 21st, 09:00 – 16:00, Brussels (?)

23 AOB

23.1 UNECE_MeasurementUnitCommonCode_9.xsd

From Fedder:

> There seems to be a typing error in the file "UNECE_MeasurementUnitCommonCode_9.xsd", which is included in the package "XML Schemas version 13B" available for download at: http://www.unece.org/fileadmin/DAM/cefact/cf_forums/Geneva_2014/D13B.zip
>
> I believe the value of the element ccts:Name, should be "millipascal", "millipasacal" on line 267 in the file.
>
> See fragment:
>
> ```
> <xsd:enumeration value="74">
> <xsd:annotation>
> <xsd:documentation xml:lang="en">
> <ccts:Name>millipasacal</ccts:Name>
> </xsd:documentation>
> </xsd:annotation>
> </xsd:enumeration>
> ```
>
> It is spelled correctly in the remainder of the file, and in the accompanying spreadsheet.

Fedder reported that UN/CEFACT had responded later the same day and that the error is fixed.

23.2 Capacitive and Inductive power

Belgium was missing codes for Capacitive and Inductive **power**. Belgium need these codes for the infeed exchanges with Elia.

Homework:

- Kees will ask TenneT to create codes for Capacitive and Inductive power

23.3 Review of member list

Postponed

23.4 Creation of PDF documents

Pawel mentioned that we should mark “Create bookmarks using: Headings”, when creating PDF documents, which makes the pdf-documents easier to read.

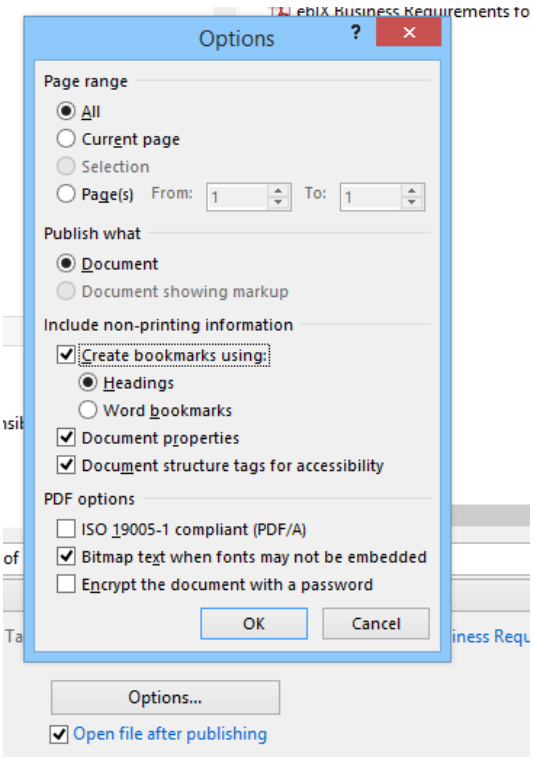

Figure 4 current codes for MeterReadingOrigin

Appendix A Pending list

A. ebIX® recommended identification scheme

Chapter 7 from the «ebIX® common rules and recommendations» should be a basis for a new chapter in the ebIX® recommended identification scheme document, see **Appendix F**.

B. ebIX® Modelling Methodology

Homework from earlier meetings:

- Those who have time are asked to read the ebIX® Modelling Methodology (see www.ebix.org) and see if there are parts of it that have to be moved to the *ebIX® Rules for the use of UMM2* or *Introduction to ebIX® Models* documents.

C. ebIX® header:

a) Do we want the following rule?

The requestor id and the requestor role (Business process role) for the actor (role) that asks for changed, added or deleted information of another role shall be stated in the document header.

b) Do we need a test indicator?
c) The content of the Energy Document and Energy Context ABIEs needs a review

Appendix B The tasks of ETC

Task	Group	Priority	Planned
Update of Introduction to Business Requirements and Information Models		High	Every Q1
Making ebIX® Recommendations for usage of WEB services including recommendations for acknowledgement and error handling		Medium	2013
Review of "Rules for status and consequences for ebIX® documents"		Medium	Every Q1
Maintain the ebIX® technical documents: • ebIX® Rules for the use of UMM-2.0 • ebIX® common rules and recommendations (v1r1D) • ebIX® Recommendations for asynchronous acknowledgement and error handling (v1r0C)		Medium	Every Q2
Other tasks: • Restructuring of UTIL-messages to reflect the structure of CCs (if we keep on mapping to EDIFACT) • 2nd generation Harmonized Role Model for Electricity and Gas • ebIX® Header	CuS, EMD and ETC Together with ENTSO-E?	Low Medium High	? 2013 2013
Maintain ebIX® profile for MagicDraw, including: • Core Components • Code lists • Templates, etc.		Continuous	
Participation/representation in the ENTSO-E and ebIX® technical WGs • Maintaining harmonised role model • Core Components • Information exchange between participation organisations	Together with ENTSO-E	Continuous	
Participation in UN/CEFACT		Continuous	
Cooperation with IEC/TC57/WG16		Continuous	
Organise implementation support, such as: • ebIX® course • Implementation support for participating countries, such as inserting/updating codes.		Continuous	
Supporting ebIX® projects, i.e.: • Develop and maintain the UMM *Business Choreography View* and *Business Information View* from the CuS and EMD working groups. • Develop and maintain XML schemas based on the *Business Information View* from the CuS and EMD working groups		Continuous	

Appendix C Participants in ETC

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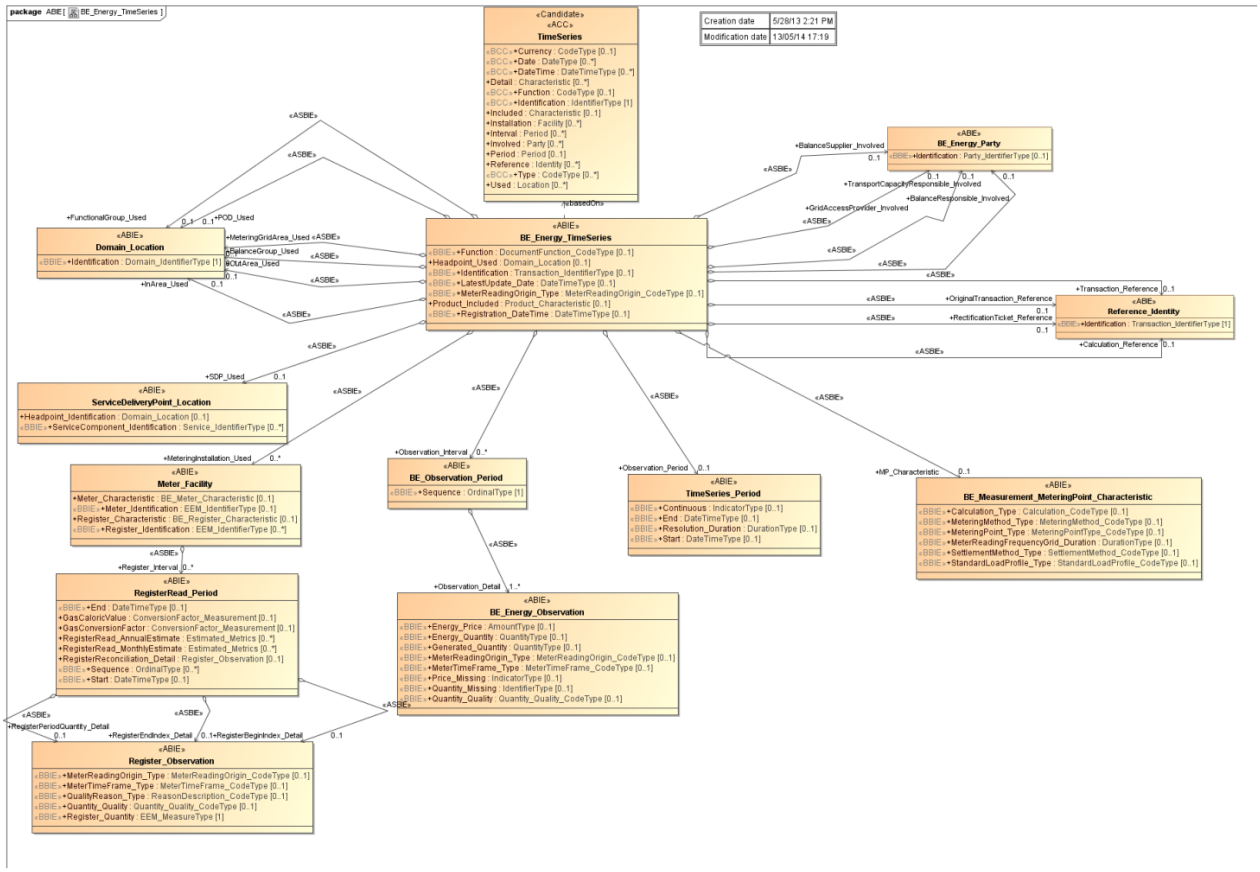
Appendix D Missing register indicator

In Belgium we don't like the missing register indicator. If we have a meter => we have a register.
But if the decision is to follow this way of doing then we think the attribute "Time-Frame" has to be added to the class Energy_MeterRead. Indeed, if you can't link a read to a register, you have to specify what for a read it is (TH, HI, LO, …). You can't give 1, 2 or 3 indexes without specifying what for indexes they are.

Our point of view is still that if we don't have the register, we don't use the branch "Energy_TimeSeries à Meter_Facility à Register_Facility à Energy_MeterRead" but a more direct link like, for example, "Energy_TimeSeries à Energy_MeterRead" with an XOR dependency between the association Energy_TimeSeries à Meter_Facility and the association Energy_TimeSeries à Energy_MeterRead (we cannot have both on the same moment, we agree with you on that point). In fact this way of doing is like ebIX do until now with the class "Observation" (that, now, couls also be linked to "Register_Facility" as you can link a volume to a calculated register).

In the Energy_MeterRead you have a attribute "Sequence". We ask us what's the purpose of this attribute? How it works?
If it is to give the chronology of meter reads, it could be replaced by dates.

Question: why don't you use association's name to define the purpose/goal of the meter read (like we did in Belgium, see diagram hereunder, on bottom left, the RegisterEndIndex_Detail, RegisterBeginIndex_Detail, RegisterPeriodQuantity_Detail)?



Appendix E Belgian-German homework following last ebIX gas group

You will find hereunder the result of the Belgian-German homework following last ebIX gas group. We succeeded to find a common list of attributes used by both countries (transmitted to the market) and in addition of this we have some German attributes more.

Business Entities classes:

		BE	DE
Meter Type (= Meter Characteristics)			
Name	**Description**		
Meter Display Technology	Technology used to display the information for the user: mechanical, electronic, multi-line display	v	v
Meter Installed Functionality	Functionality activated on meter, i.e. budget or metering	v	v
Meter Purpose	Purpose of the meter in a meter installation, i.e. main / check	v	v
Meter Reading Characteristics	A code used for the type of communication between a meter and the Metered data collector, i.e. automatic meter reading, manual, 2-way, 1-way	v	v
MeterType	Type of meter, i.e. Budget, Usual, Smart, PPM	v	v
Type of the Meter	For definition ask to Germany Possible values: *Diaphragm/bellows meters* *Rotary meters* *Turbine meters* *Orifice meters* *Ultrasonic flow meters* *Coriolis meters*		v
Dimension of the meter	Indicate which dimension (for gas) the meter has (e.g. G10, G25, G4,…)	in Belgium we preferred to put the maximal debit in the "installed power" G4 à 6m³/h	v
Attribute of the meter	For definition ask to Germany Possible values: *Z01 EDL40* *Z02 EDL21* *Z03 sonstiger EHZ*		v

Type of fixation	For definition ask to Germany Possible values: *BKE Stecktechnik (Befestigungs- und Kontaktierungseinrichtung) =Connector* *DPA 3-Dreipunktaufhängung = Three-Point Conntection* *HUT Hutschiene = top hat rail* *Z31 Einstutzen-Zähler = Single-Pipe Meter* *Z32 Zweistutzen-Zähler = Double - Pipe Meter*		v
Corrector	For definition ask to Germany Possible values: DMU Dichtemengenumwerter = density corrector TMU Temperaturmengenumwerter = temperature corrector ZMU Zustandsmengenumwerter = Volume corrector		v
Register Characteristics			
Name	**Description**		
Calculation Type	Type of calculation performed on volumes. Types are compensation, valorization. Only needed in case of decentralized production.	v	v
Direction	The direction of the energy being measured in relation to the network it is connected to, i.e. consumption, production	v	v
Load Profile	A code defining the standard load profile.	v	v
Measuring Method	Method used to store the measures, cumulative / non-cumulative	v	v
Multiplication Factor	A factor with which the registered value needs to be multiplied with	v	v
Number of Digits	The number of digits configured on the register. Specified as a combination of total and after the decimal point, or the number before and after the decimal point.	v	v
Reporting_Base	An indication to inform about the source of the reported values. Two values are foreseen: virtual and measured.	v	v
Time of Use	The Time of Use / Timeframe during which a value is registered	v	v
Register Type			
Name	**Description**		
Incrementation Type	Way of cumulating registered values, i.e. cumulative, non-cumulative	v	v
Measured Energy Type	The identification / type of energy being measured, i.e. active energy, active power, ...	v	v
Metering Method	The method used for metering, such as continuous, non-continuous or not metered.	v	v
Unit of Measure	A unit of measure defining the accumulated reactive energy equal to one kilovolt ampere of reactive power per hour (CEFACT rec20_rev4E_2006.xls)	v	v

Comments from Thibaut (Eva):

I asked in my Company if they got some more Correction for the Class diagram. They got only those two additions to Type of the Meter:
WGZ Wirbelgaszähler ***Vortex Flow Meter***
IVA Individuelle Abstimmung (Sonderausstattung: z.B. Gas-Encoder): ***Individual Setting***

Is it possible to add easily to the Business Entities classes?

Belgian BIM ABIEs:

Class BE_Meter_Characteristic:
https://model.atrias.be/umig6/?refid=_17_0_2_2_38a017f_1372762708426_720206_35527
Class BE_Register_Characteristic (Business entities "Register Characteristics" and "Register Type" regrouped in one ABIE):
https://model.atrias.be/umig6/?refid=_17_0_2_2_38a017f_1372770525382_260482_41804

You will also find in our HTML model the BDTs used for each BBIE (for your information)

The Belgian TMD information model class diagram can be found here:
https://model.atrias.be/umig6/?refid=_17_0_2_b9402f1_1369932489995_958719_50423

Can you add the review/creation of these attributes for next ETC meeting?

Appendix F ebIX® Rules for addressing (routing)

F.1 Definitions

Juridical party: In this chapter the term juridical party will be used for the party juridical responsible for sending or receiving information.

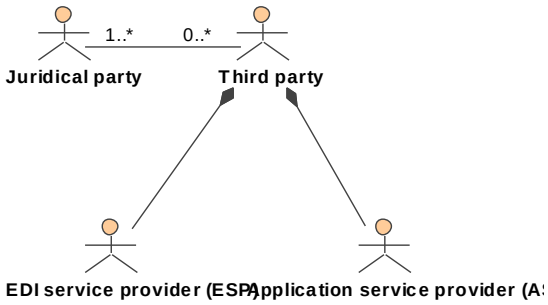
Business process id: The key element in routing and addressing is the Business process that will be identified by a code called the Business Process Identification (BPI). BPI also serves as the key element to indicate the business process capabilities of a party. The user group, government agency, or national ebIX® group making a Business information model assigns this code.

Party id: The identification of a party, i.e. the party's EAN location number or the party's EIC (ETSO Identification Code).

Third party: A party acting on behalf of the juridical party (as an intermediate) in a message exchange scenario. In between the juridical parties there may be several third parties. These intermediates can have different responsibilities, such as routing of documents, conversions to/from EDIFACT/XML and/or handling of the document content on behalf of the juridical party. Intermediates only doing routing of messages will not be a part of the addressing principles discussed below. The third parties may be split into the following two subtypes:

Application service provider (ASP): A third party that takes care of the database (application) for a juridical party. The ASP is responsible for returning application acknowledgements, such as APERAK.

EDI Service Provider (ESP): A third party that is responsible for the document exchange on behalf of the juridical party, including conversion of documents. The ESP is responsible for returning syntax related acknowledgements, such as EDIFACT CONTRL.



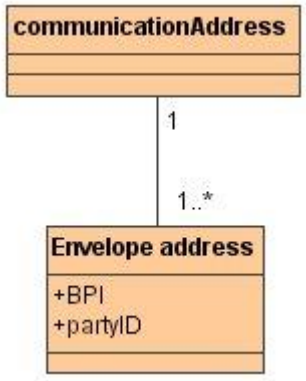
Relationship between roles in document exchange

A juridical party can choose whether or not to use one or more third parties in his document exchange. It is also possible to combine usage of third parties for one or more business areas and handle the document exchange himself for other business areas.

F.2 Principles for addresses and identifications

1. The juridical party may choose whether to use one or more third parties as intermediates in a document exchange scenario.

2. A juridical party can only have one party id for each BPI.
3. Routing of documents, including acknowledgements, shall use the same principles even if third parties are used.
4. In case of additional routing information a BPI shall be used for routing of documents to the right business process through its identification.
5. The main use of the addresses in the envelope (for EDIFACT in UNB) is routing purposes. The routing information includes information related to the BPI.
6. A recipient id combined with the related BPI in the envelope (for EDIFACT in UNB) can only be linked to one communication address, but a communication address may be linked to several combinations of party ids and/or BPIs.



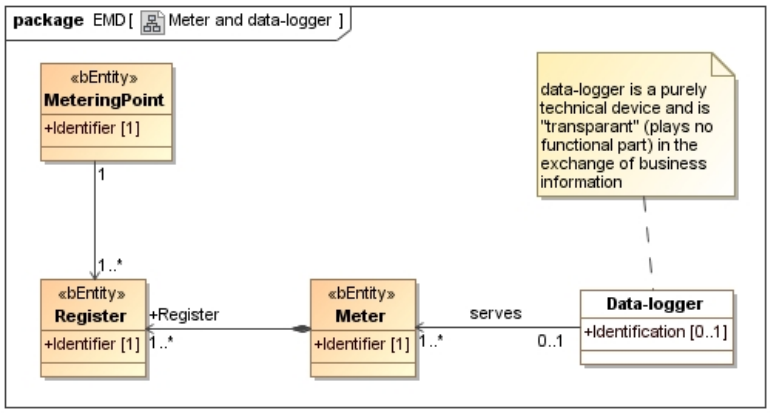
7. It shall always be the juridical party, the party legally responsible for sending or receiving the information, that is identified in the document header level (for EDIFACT in the NAD segment).
8. Either EAN or EIC (ETSO Identification Code) identification scheme shall be used as party id.
9. The BPI concerned shall be stated in the envelope.
10. Acknowledgements of acceptance, such as EDIFACT/APERAK, shall be treated as any other document regarding the addresses. I.e. the sender address, including BPI (sub address) in the original document, shall be sent as receiver address in the application acknowledgement. And the receiver address, including BPI (sub address) in the original document, shall be sent as sender address in the application acknowledgement.
11. Acknowledgements of receipt, such as EDIFACT/CONTRL documents, shall be returned with opposite addresses. I.e. the sender address, including BPI (sub address) in the original document, shall be sent as receiver address in the syntax acknowledgement. And the receiver address, including BPI (sub address) in the original document, shall be sent as sender address in the syntax acknowledgement.

Appendix G ebIX® gas group: request new code MeterReadingOrigin

The ebIX gas group needs a new code for MeterReadingOrigin. The code shall specify that the origin of the reading is the data-logger. The effect is, that these data are of a temporary nature, but can be used for the time being.

Background

	Mechanical meter	Additional data-logger	Electronic meter (data-logger included in device)	Remarks
A	X			Mechanical meter only does not support remote reading
B	X	X		When a data-logger is added to the mechanical meter, a difference between metered values and logged values may arise. Especially in case of low volumes to be measured in combination with high meter capacity.
C			X	In an electronic meter, the data-logger is included in the meter device. A difference between metered values and logged values is highly unlikely.



Proposed code:
E35 (is next open code in “CharacteristicValueDescriptionCode”) with description “From data logger)