Minutes ETC meeting, May 26th and 27th, 2014

Date: Monday and Tuesday, May 26th and 27th, 2014
Time: 10:00 –18:00 and 09:00 – 16:00
Tuesday May 27th, 09:00 – 10:30 ebIX® strategy telephone conference
Place: Svenska kraftnät, Stockholm (Sundbyberg)
Participants: Erik Gustavsen, NO, EdiSys, erik.gustavsen@edisys.no
Fedder Skovgaard, DK, Energinet.dk, fsd@energinet.dk
Jan Owe (Convenor), SE, Svenska kraftnät, Jan.Owe@svk.se
Kees Sparreboom, NL, TenneT (CapGemini), kees.sparreboom@capgemini.com
Lars-Ola Österlund, SE, Ventyx, ABB, lars-ola.osterlund@ventyx.abb.com (Monday)
Ove Nesvik (Secretary), NO, EdiSys, ove.nesvik@edisys.no
Thibaut Hellin, BE, Atrias, thibaut.hellin@atrias.be

Appendixes: **Appendix A**, Field definitions
Appendix B, Pending list
Appendix C, The tasks of ETC
Appendix D, Participants in ETC
Appendix E, ebIX® Rules for addressing (routing)

Attachment: [CIM Model Management_rev6_7] see item 3, Status IEC

[Lenght and patterns.pptx] see item 9.1, Questions from Belgium regarding tags: length, maxLength and pattern

1 Approval of agenda

The agenda was approved with the following additions:
- ABIE for Time series, see 8.3 under ebIX® Business Information Model 2014.A
- Questions from Belgium regarding tags: length, maxLength and pattern, see 9.1 under Status and test results of updated version of the TT (Transformation Tool)
- Source code for the TT, see 9.2 under Status and test results of updated version of the TT (Transformation Tool)
- Issuer of Metering Point IDs and "Field structure", see 11.2 under item 11, ebIX®, EFET and ENTSO-E Harmonised Role Model
- ebIX® Gas alignment project, see 17.1 under AOB
- HTML publication of Atria's UMM model, see 17.2 under AOB
- German member of ETC, see 17.3 under AOB

2   Minutes from previous meetings

The minutes from previous meeting was approved with the following comments:

- The following sentence under homework under item 9: "*Patterns may be applied to different purpose (VAT, Date/Time, …). Patterns will be specified in an OCL statement. Belgium will add patterns where needed*" seem to be a simplification of the original homework from the ETC meeting December 2013. The item will be re-discussed under item 9.1.

3   Status IEC

Lars-Ola Österlund from (Ventyx, ABB) was invited in the morning of Monday May 26th, for a discussion about how to integrate the ebIX® standard into CIM.

As an introduction Kees gave a brief presentation of the ebIX® UMM/UML model. Thereafter Lars-Ola presented the CIM model:

- CIM has three domains:
    - o 69870 Network model
    - o 61968 Processes for control room
    - o 62325 Market extension, which among others include:
        - ▪ 301 Description of CCs
        - ▪ 351 CIM European Market Model Exchange Profile
        - ▪ 450 Context Modelling Rules
- Lars-Ola mentioned that the transformation described in the 351 document (i.e. CIM -> Regional conceptual model -> Document conceptual model -> Message assembly model -> XML schemas) make interoperability difficult as relating data in IEC 62325 messages with messages derived from other IEC specifications will require mapping
- ETC propose to start with mapping the ebIX® requirements for "*collected data*", to CIM
- Lars-Ola proposed the following next steps for ebIX®:
    - o Ignore the 'profiling derivation' steps in Figure 1 below and develop a 'CIM Information model' that directly support data exchange needs. This simplifies the development a lot, as transformations are avoided. The result is compared with other existing 'CIM Information models' and adjustments may be made
    - o The work should be done within WG16 and probably as a sub-project (similar to the European market extension)
    - o The IEC domain should be the 62325 (Market extension)

For those who are TC57 members, the following link should give access to the WG13 UML model (CIM) that also contains the WG14 and WG16 UMLs (maybe not the latest):

http://iectc57.ucaiug.org/WG13/Shared%20Documents/61970%20Work%20in%20progress;%20models,%20documents%20and%20issues/CIM16/iec61970cim16v28_iec61968cim12v08_iec62325cim03v01a.zip

Lars-Ola also shared a document on model management. It is not agreed upon so it should be looked upon as a source of inspiration rather than "the book of law". The document is attached.

In addition, the "Field" was discussed in relation to CIM, see Appendix A. Lars Ola proposed to associate the Meter to a "Terminal" and from the IEC network domain the hierarchy can be found. Lars Ola also thinks that the Field may be mapped to the CIM "Bay".
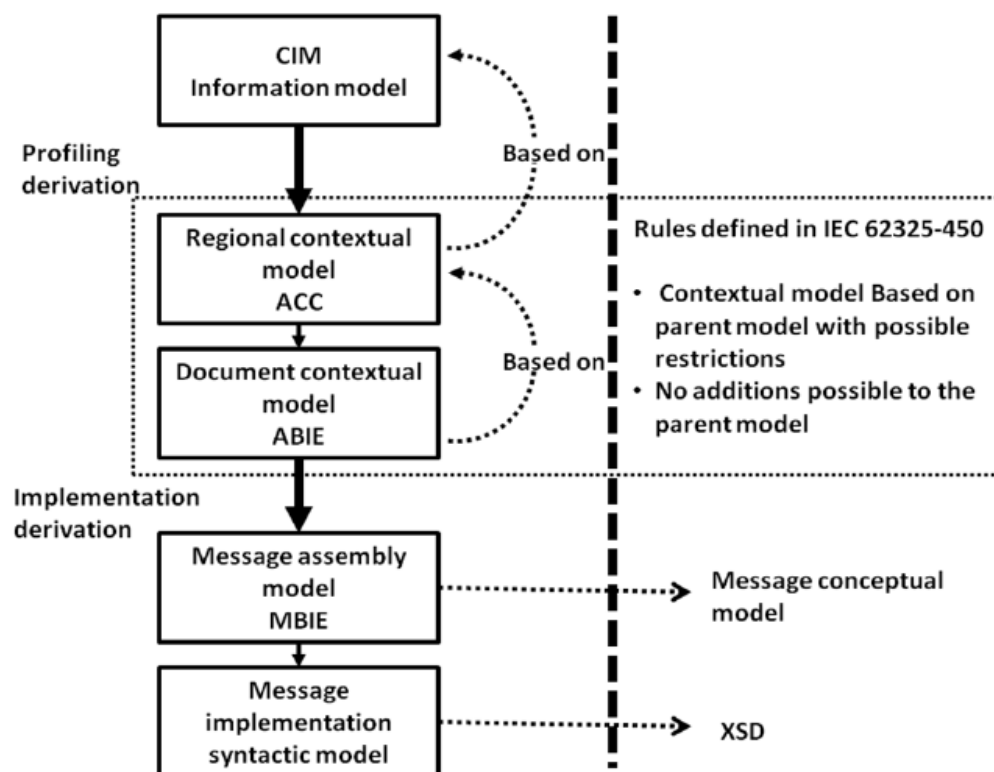
Figure 1 - IEC 623235-450 modelling framework

The NWIP-document from ebIX® will await a clarification of where in IEC to continue.

4   Request for new Document Name Codes

NTC (Nordic Ediel Group (NEG) Technical Committee) asks ETC to issue two new Document Name Codes:

Z08	Intermediate Confirmation of Aggregate metered data from the Metered Data Aggregator	Intermediate Confirmation of Aggregated Data per Neighbouring Grid from Imbalance Settlement Responsible to Metered Data Aggregator
Z09	Final Confirmation of Aggregate metered data from the Metered Data Aggregator	Final Confirmation of Aggregated Data per Neighbouring Grid from Imbalance Settlement Responsible to Metered Data Aggregator

ETC made the following proposals:

1. Use Document codes from ENTSO-E (using listAgencyIdentifier = 305), i.e. :

    A07 Intermediate confirmation report

    A08 Final confirmation report

    or

2. Use Document code **E75** Notification from ISR, with the following Function codes on Time series (Payload) level

    46 Provisional (Message content is provisional)

47 Definitive (Message content is definitive)

5   Resolve matters from ebIX® Forum meeting, Wednesday March 26th
There were nothing to resolve

6   Smart grid
Kees has asked M490 for input, but not received anything. The item was postponed.

7   Creation of XML schemas
It is earlier agreed that national schemas shall be prefixed with country and underscore (e.g. "NL_ebIX_"). However, this has to be documented.

Homework:
- Kees will propose a text explaining how to prefix the xml schemas with country and underscore (e.g. "NL_ebIX_")

8   ebIX® Business Information Model 2014.A

8.1   Review of CuS BIMs
Due to lack of time, the item was postponed

8.2   ebIX Business Information Model for Measure for Reconciliation 2014.A
Comments from Ove:
- Alignment of BIMs (and BRSs) from CuS and EMD:
  - The ebIX® Business Information Model for Measure for Reconciliation 2014.A consist of two parts:
    - "Exchange Validated Data for Reconciliation", chapter 2.1 – 2.3
    - "Request Validated Data for Reconciliation", chapter 2.4 – 2.6
  - In CuS similar BRSs/BIMs are split into two:
    - Notify MP characteristics
    - Request MP characteristics

  Conclusion: To be discussed in CuS

- I propose adding parentheses to chapter 2.2.2 and 2.5.2: (Business Collaboration Protocol)
  Conclusion: The parenthesis will be added to all future BIMs

- The Energy_TimeSeries stereotype should be changed from «MA» to «UNSM»
  Conclusion: Change to <<MA>>

In the EMD telephone conference the Friday before, it was requested to add a Market Balance Area (MBA) to the ebIX® Model, i.e. used for sending price time series for a MBA. Ove asked if we should make it more generic, i.e. to make an Area ABIE containing an area type and an area ID. The reason being

that new areas may turn up in the near future, such as the new bidding zone proposed in the EMFIP project.

Conclusion:
- Since we not are sure that other areas will be used in the near future, we add the MBA directly to the Energy Time Series ABIE

8.3   ABIE for Time series
Due to lack of time, the item was postponed

8.4   BIM Settle for Reconciliation + linked BRS and derived XML-schemas
Due to lack of time, the item was postponed

9   Status and test results of updated version of the TT (Transformation Tool)

9.1   Questions from Belgium regarding tags: length, maxLength and pattern
Thibaut had made a presentation (attached) where Atrias argues for implementation of length, maxLength and pattern in the TT:
- Thibaut wants the maxLength both on a data type level and on attribute level. For instance all address attributes are of type textType, but it might be useful to have different length on the attributes, e.g. ENTSO-E propose 60 characters for a street name and 40 characters for the city name.
- In the ebIX® model there are more than 100 tagged values where a maxLength is specified, but in the resulting xml-schemas there are only two maxLength restrictions

Kees explained that:
- length, maxLength and pattern must be specified on a data type level, i.e. in the ebIX® profile
- length, maxLength and pattern can only be specified for data types that becomes xml simple types, which are very few of the ebIX® data types

Homework:
- Kees will check if changes from complex to simple types happens because of OCL statements, i.e. if all attributes except one are removed from a data type in the model

9.2   Source code for the TT
Peter has found a place to store the TT source and Kees will inform us of the link when available.

9.3   Updates of the TT
Homework:
- Kees will:
  - Update the TT so that the UML stereotype «ABIE» will be transformed to the prefix «MBIE» (Message Business Information Entity), as used in CCBDA (CC Business Document Assembly), when generating XML schemas

      o Check how the filenames are assembled, i.e. where the qualifiers (e.g. "ebIX_") are taken from

10 ebIX® technical documents
Due to lack of time, the item was postponed

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

11.1 Question from Belgium:
Due to lack of time, the item was postponed

11.2 Issuer of Metering Point IDs and "Field structure"
Due to lack of time, the item was postponed

12 tWG
Due to lack of time, the item was postponed

13 Benchmark test of different xml schema versions
Due to lack of time, the item was postponed

14 Status for UN/CEFACT project for Alignment of Master Data for Metering Point and of Measured Data
Actions from earlier ETC meetings:
- Kees will follow up and invite to the first telephone conference

Kees informed that the following requested UN/CEFACT role codes are agreed, but not published:

Z06	Reconciliation Responsible
Z07	Reconciliation Accountable
Z09	Market Operator

The request code "**Z08** Billing Agent" is postponed, until discussed in the HG, i.e. if we can use the code for the invoice issuer instead. The role code for Billing Agent will be followed up on later meetings.

15 Items related to the CuS project
Due to lack of time, the item was postponed

16 Next meeting(s), including start and end time.
- Wednesday June 25th and Thursday June 26th, Copenhagen
- Monday August 25th and Tuesday August 26th, Netherlands

- Monday 20th October and Tuesday October 21st in Poland, with an ebIX® Forum meeting Wednesday October 22nd

17   AOB

17.1   ebIX® Gas alignment project

Gerrit has asked Eva Lepperhof to be the "Forum linking pin" and to take the lead to start the group going, in order to achieve the goals and planning. The following members have volunteered for the project group:

Eva Lepperhof, DE, RWE, eva.lepperhoff@rwe.com
Kees Sparrebom, NL, ebIX®, kees.sparreboom@capgemini.com
Marko Smodiš, SI, Petrol d.d., marko.smodis@petrol.si
Thibaut Hellin, BE, Atrias, thibaut.hellin@atrias.be
Section IPET is planning to elect another member on next regular meeting that is planned in June

Kees will be the secretary in the group.
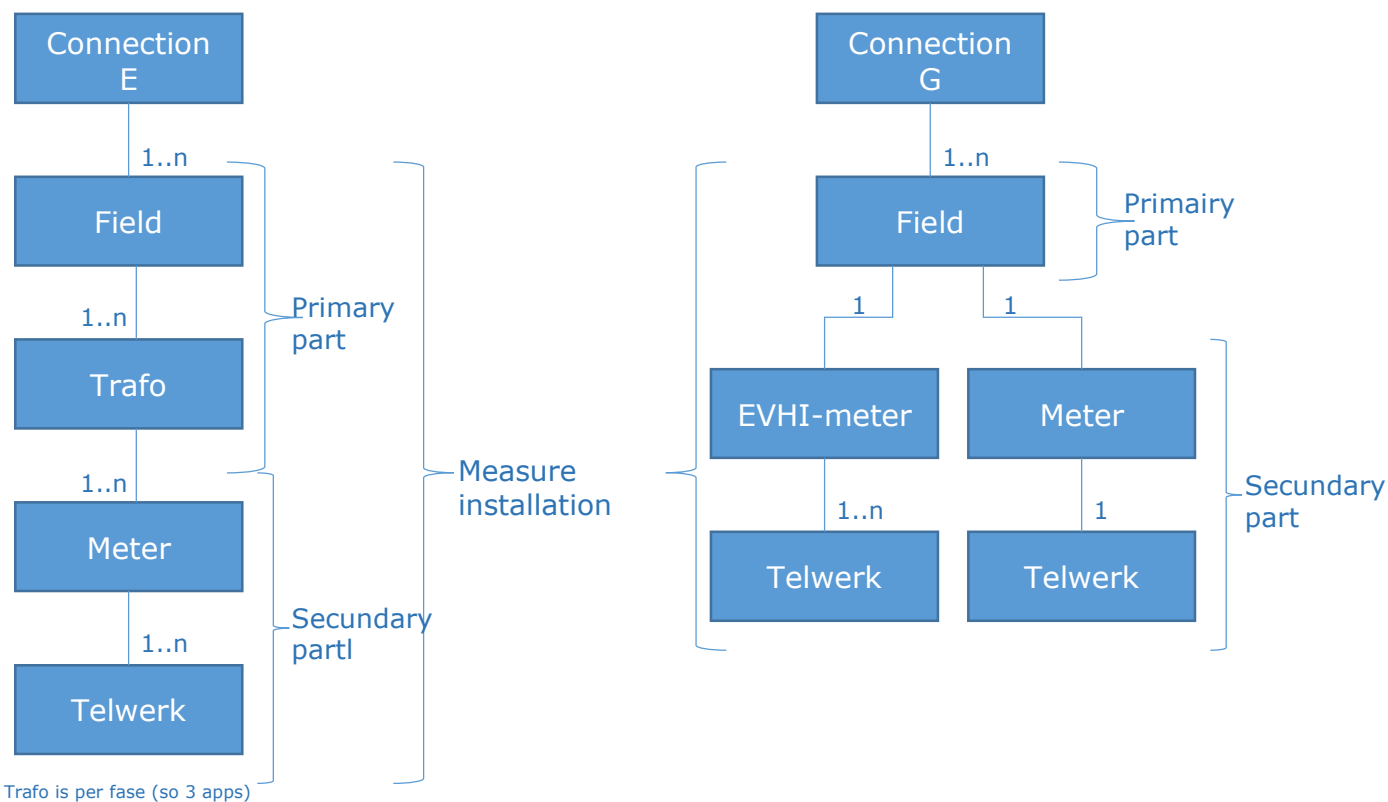
17.2   HTML publication of Atria's UMM model

Thibaut gave a presentation of the HTML version of the Atria's UMM model, see link below:
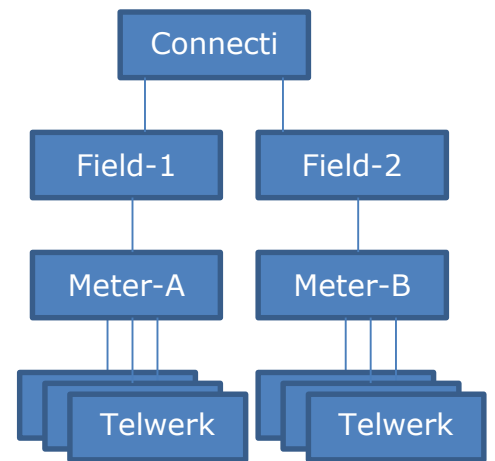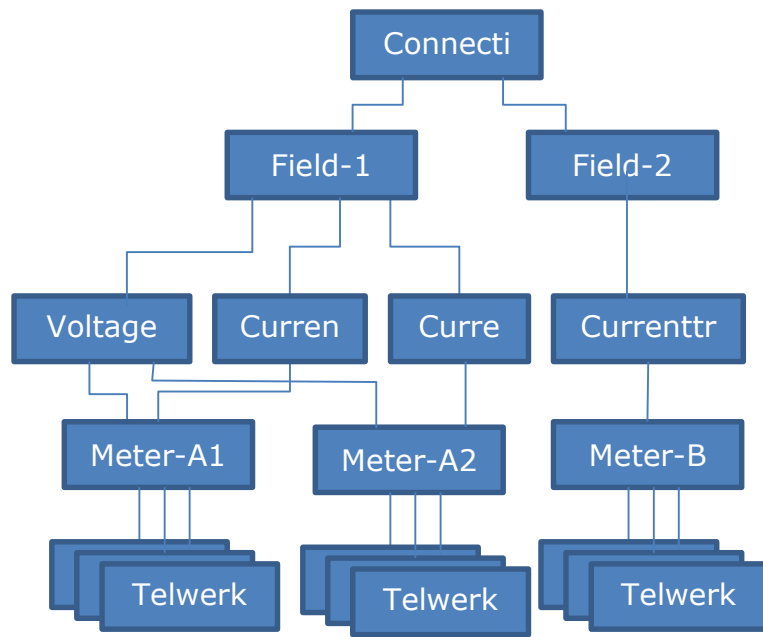
http://model.atrias.be/UMIG6/index.html

17.3   German member of ETC

Jan volunteered to ask Christina Frein for a German member of ETC.

Appendix A   **Field definitions**

Trafo is per fase (so 3 apps)

```
                      ┌──────────┐                              ┌──────────┐
                      │ Connecti │                              │ Connecti │
                      └──────────┘                              └──────────┘
                    ┌──────┴──────┐                          ┌──────┴──────┐
              ┌─────────┐   ┌─────────┐               ┌─────────┐   ┌─────────┐
              │ Field-1 │   │ Field-2 │               │ Field-1 │   │ Field-2 │
              └─────────┘   └─────────┘               └─────────┘   └─────────┘
                                                          │             │
  ┌─────────┬──────┴───┬──────────┐                 ┌─────────┐   ┌─────────┐
┌─────────┐ ┌────────┐ ┌───────┐ ┌──────────┐       │ Meter-A │   │ Meter-B │
│ Voltage │ │ Curren │ │ Curre │ │ Currenttr│       └─────────┘   └─────────┘
└─────────┘ └────────┘ └───────┘ └──────────┘         ┌─────┐       ┌─────┐
                                                      │ Telwerk │   │ Telwerk │
┌──────────┐    ┌──────────┐    ┌──────────┐          └─────┘       └─────┘
│ Meter-A1 │    │ Meter-A2 │    │ Meter-B  │
└──────────┘    └──────────┘    └──────────┘
 ┌─────┐         ┌─────┐         ┌─────┐
 │ Telwerk │     │ Telwerk │     │ Telwerk │
 └─────┘         └─────┘         └─────┘
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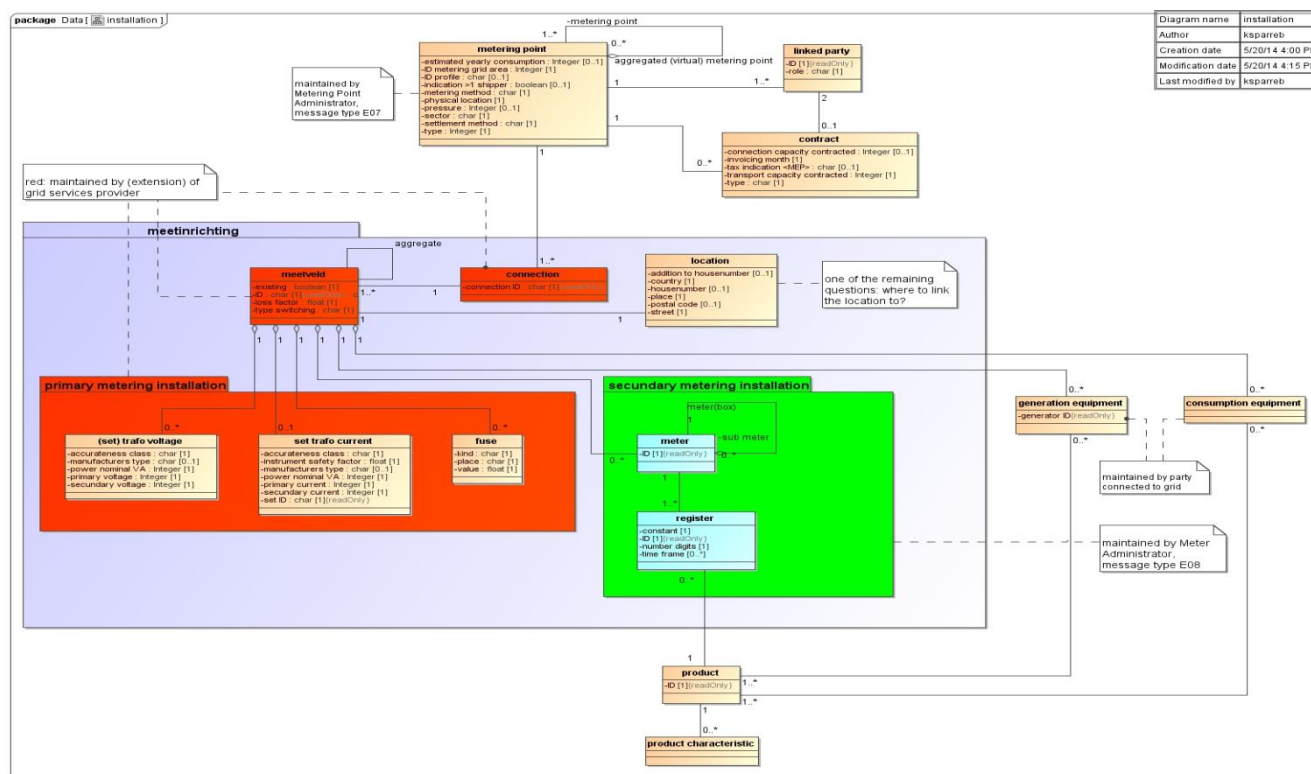
Appendix B   Pending list

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 E.

B.   Creation of an ebIX® technical presentation

C.   ebIX® Business Information Models

D.   How to describe XML schemas
Swissgrid has looked into alternative ways of describing XML schemas, as an alternative to the current OCL statements:
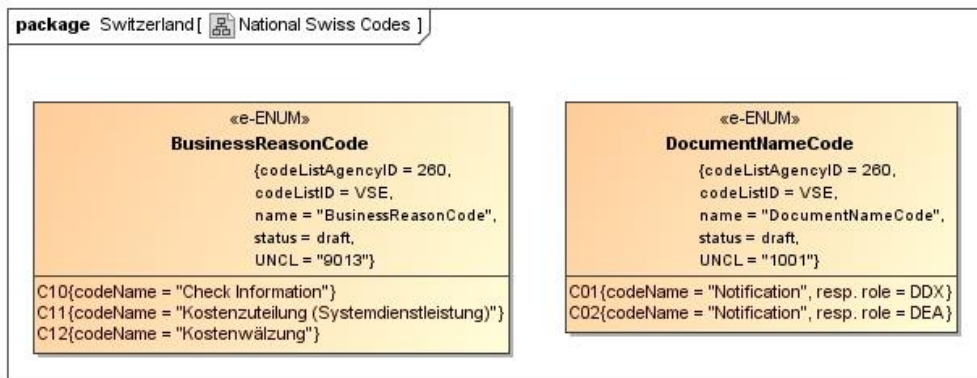
1. Using the generator as shown last or pre-past meeting. An example can be found in the agenda for the ECT meeting November 27th 2011.
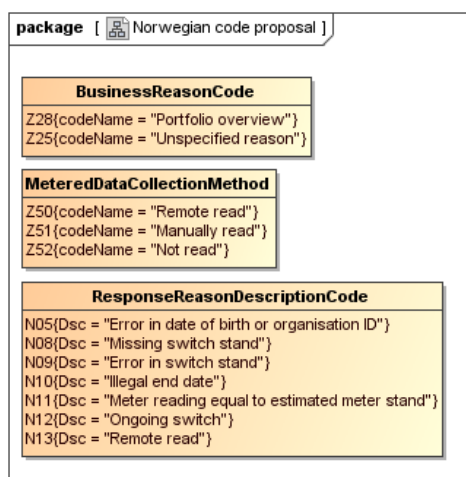2. Create very nice documents with this product: http://www.filigris.com/products/docflex_xml/xsddoc/#intro

Probably, we should first exactly define the audience for this document. For developers and architects, a very basic documentation like xml-spy test.doc will be fine, for more sales- and marketing oriented users, the reports have to be nice and probably a little bit fancy… like the examples from the docflex.

E.   Review of National code lists
The following code lists comes from a review in the CuS WG and are candidates for updates of the ebIX® models:

```
package  [  Norwegian code proposal ]

BusinessReasonCode
Z28{codeName = "Portfolio overview"}
Z25{codeName = "Unspecified reason"}

MeteredDataCollectionMethod
Z50{codeName = "Remote read"}
Z51{codeName = "Manually read"}
Z52{codeName = "Not read"}

ResponseReasonDescriptionCode
N05{Dsc = "Error in date of birth or organisation ID"}
N08{Dsc = "Missing switch stand"}
N09{Dsc = "Error in switch stand"}
N10{Dsc = "Illegal end date"}
N11{Dsc = "Meter reading equal to estimated meter stand"}
N12{Dsc = "Ongoing switch"}
N13{Dsc = "Remote read"}
```

F.   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.

G.   Review of ETC tasks in Appendix C

H.   Status for test of a web-conference solution

Set up a test, one-to-one, with relevant ETC web-conference participants, to get all up and running before next web-conference.

I.   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 at test indicator?
   c)   The content of the Energy Document and Energy Context ABIEs needs a review

J.   Mapping of UTILMD and UTILTS

Make a small Word document with examples on how to present mapping of UTILMD and UTILTS information to EDIFACT IGs, i.e. as MagicDraw artefacts

Appendix C   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 D   Participants in ETC

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Appendix E   ebIX® Rules for addressing (routing)

Appendix F   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.
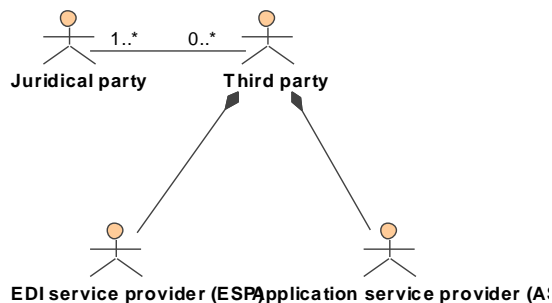
Relationship between roles in document exchange

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.

Appendix G   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.