Minutes ETC meeting, March 24th and 25th, 2014

Date: Monday and Tuesday, March 24th and 25th, 2014
Time: 10:00 –18:00 and 09:00 – 16:00
Place: Oslo
Participants: Erik Gustavsen, NO, EdiSys, erik.gustavsen@edisys.no (day one)
                  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
                  Ove Nesvik (Secretary), NO, EdiSys, Ove.nesvik@edisys.no
Appendixes: **Appendix A,** Pending list
                  Appendix B, The tasks of ETC
                  Appendix C, Participants in ETC
                  Appendix D, ebIX® Rules for addressing (routing)
Attachment: None

1   Approval of agenda

The agenda was approved with the following additions:

- Enumerations for Validation and Estimation method, see 17.1 under AOB
- Review of pending list, see 17.2 under AOB

2   Minutes from previous meetings

The minutes were approved.

3   Preparation for ebIX® Forum Wednesday March 26th

ETC and HG status presentations were drafted

4   Smart grid

Homework from previous meeting:

- Kees will ask M490 to come up with requirements for charging poles for vehicles
  Status: M490 has been reminded, but no answer yet – postponed until next ETC

- Kees will ask M490 to come up with requirements for smart part of the smart meter
  Status: M490 has been reminded, but no answer yet – postponed until next ETC

- Kees will make a proposal for a presentation regarding the smart part of the smart meter to be discussed at next ETC
  Status: M490 has been reminded, but no answer yet – postponed until next ETC

- Everyone, not already done so, should investigate national requirements for charging poles for vehicles

> **Status:** It seems that the national requirements for charging poles will work within the current processes and within the frame of the Harmonised Role Model. The item will be removed from future agendas, however added again if needed.

5   Creation of XML schemas

The item was postponed.

6   ebIX® Business Information Model 2014.A

The following CuS BIMs were ready for review:
- CuS Change of Supplier (updated after review on previous ETC)
- CuS Notify MP characteristics
- CuS End of Supply
- CuS Change of Balance Responsible Party

Kees made a set of general comments to the BIMs:
- The only needed Business Realisation artefact is the Business Realisation for Change supplier, i.e. all Business Realisation artefacts, except for the top one (Change of Supplier) should be removed
  - **Note:** similar changes for all BIMs
- The process "Determine meter read" is missing from the Business collaboration for Change supplier
  - **Note:** similar changes for all BIMs
- In the Notify Change of Supplier Business Realisation UseCase:
  - Add an extra set of «mapTo», i.e. all roles must have a «BusinessPartner» that «mapTo» a «HarmonisedRole», that «mapTo» the «AuthorisedRole»
  - **Note:** similar changes for all BIMs
- The existing Business Collaboration UseCase for Notify Change of Supplier should be renamed to Notify Change of Supplier to **Old** Roles
- A Business collaboration UseCase and Business Transaction UseCase for Notify Change of Supplier to **New** Roles should be added
- The «UNSM» MP_Event or «UNSM» MasterData_Mp_Event should be put in-between the «MA» and the Energy_Document, Energy_Context and MP_Event (MasterData_Mp_Event)
  - **Note:** Remember to delete the existing association between the «MA» and the Energy_Document, Energy_Context and MP_Event
  - **Note:** similar changes for all BIMs
- The term "Switch" should be replaced by the term "Change" in all BIMs
- Customer will be removed from the Request Change of Supplier document
- The version of the "«MA» package" (tagged value bLibrary) should be **2014.A**

New and verified document type codes for EMD and CuS:
- Change of Supplier, Change Balance Responsible Party and Change of Metered Data Responsible:
  - The same document types:
    - **392** for the request
    - **414** for the confirm
    - **432** for the reject
    - **E44** for the notification

- o The Change of Supplier reason is **E03**
        - o The Change Balance Responsible Party reason is **E56**
        - o The Change Metered Data Responsible reason is **E57**
- Notify preliminary profiled consumption is a new document from EMD sent from the Metered Data Aggregator (MDA), Local to the MDA, Central.
        - o **E31** is currently used for aggregated data from the MDA and is also proposed for the new document
        - o A new reason code "**E0N (E-zero-N)**, *Preparation for reconciliation*" was created
- Notify residual volume is a new document from EMD sent from the Imbalance Settlement Responsible (ISR) to the Reconciliation Responsible (RR)
        - o A new Document type code "**E75**, *Notification from the Imbalance Settlement Responsible*" was created
        - o The new reason code "**E0N (E-zero-N)**, *Preparation for reconciliation*" will be used also for this document

During this item, Kees mentioned some discussion from the latest EMD meeting:
- Need for different consumption and production types, e.g.:
        - o Solar production
        - o Nuclear production
        - o Wind production
        - o Hydro production
    The EMD conclusion was to use external (existing) code lists, such as EECS Rules Fact Sheet 5, Types of energy inputs and technologies (from AIB), the ENTSO-E code list (https://www.entsoe.eu/publications/electronic-data-interchange-edi-library/) or production transparency from EU.

    The discussion will be continued, e.g. to find attributes to use for the code list chosen.

- A Swedish request for Number of MPs in aggregated time series was postponed until a final decision in the NBS (Nordic Balance Settlement) project.

Kees informed that the 2014.A version of the EMD BIMs are 90% done, such as making the documents and the related constraints. What is missing are some new UseCases within the reconciliation process (see above). Kees expect the EMD BIMs to be distributed to EMD within a few weeks.

Conclusions:
- When sending BIMs for QA by ETC, the MagicDraw model should be attached. I.e. the quality of the MD model should be reviewed together with the BIM.

Homework:
- Erik will update all CuS BIMs according to the comments above
- All are asked to review the updated BIMs before next ETC
- A new review of the CuS BIMs will be put on next ETC agenda

7 Status and test results of updated version of the TT (Transformation Tool)
The item was postponed

8   Status IEC

Status:

- There should have been a telephone conference February 4th. However, Kees was sick at the time and ebIX® asked the meeting postponed. After this ebIX® (Jan and Kees) has sent several reminders for calling a new meeting, without any response. Hence there is no clarification of which IEC WG to cooperate with (WG14, WG16, …)
- Jan sent a mail to Jim (WG-16 chair) proposing new dates for a telephone conference, i.e. April 1st, 2nd, 14th and 22nd
- Sending an ebIX® NWIP-document is still put on hold until the right IEC WG is found

During the discussions, Lars-Ola Österlund from Ventyx (ABB) was invited to the next ETC meeting, to discuss IEC and CIM.

9   ebIX® technical documents

The deadline for comments to the "*ebIX® recommendations for acknowledgement and error handling*", which has been on circulation for comments to ebIX® Forum, ended in the weekend (March 23rd). Since there were no comments, the document will be published on www.ebix.org.

Homework from previous meeting:

- Kees will make a note in the document ebIX® Rules for the use of OCL statements, i.e. that the use of OCL for on-the-fly enumeration lists is strictly restricted to be used for date/time formats (but await publication until the TT is ready), including:
  - Addition of relevant parts of the "Spec-document"
  - "on-the-fly" enumeration lists will only be used to restricted date/time formats
  - Patterns may be applied to different purpose (VAT, Date/Time, …). Patterns will be specified in an OCL statement. Belgium will add patterns where needed.

    Status: The item was postponed

- Kees will as continued homework do some editorial updates of the Introduction to ebIX® Models and publish it, including:
  - Adding a paragraph for national customisation, such as how to qualify national documents, codes etc.

    Status: The item was postponed

Actions:

- Ove will publish "*ebIX® recommendations for acknowledgement and error handling*" on www.ebix.org

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

Everyone were asked, as homework, to find possible rules (manual/guide...) for how maintenance requests (MR) to the Role Model could look like. The intention is to make sure that external requestors includes all needed information in a maintenance request to the HG. The proposal below will be forwarded to the HG:

MR for new Role or Domain	
Name, organisation and e-mail for the requestor	
Type of request (Addition, deletion or change)	
Name of Role, Domain or Installation	
Definition of Role, Domain or Installation	
Business term for new Role, Domain or Installation	
Associations with other Roles, Domains or Installations	
Dependencies with other Roles, Domains or Installations	
Responsibilities / Legal task of Role	
Draft subset of the role model to show the dependencies and responsibilities for existing Role, Domain or Installation	
Related information, such as: • background information • reason why • processes involved	

Belgium is starting the modeling exercise for the exchanges with ESCO's (Energy Service Company). Looking into the role model, there is no role that would fit them. Extract from related mail discussion:
- Could it be the *Metered Data Aggregator*, the *Billing Agent*, the *Data Provider* or the *Market Information Aggregator*?
- ESCO is indeed mainly receiving metering data from the MDR or "Data provider" for a number of metering points. He is using these data for delivering energy services to the client who contracted him. In a way, it is partly the role of the Market Information Aggregator, although the current definition is more as being an aggregator of information on the level of the whole market and not so much for a particular customer. The aim is to produce statistics on the level of the market. Also in the role model, the "Market Information Aggregator" is only getting information from the system operator.
- So, if we could make the Market Information Aggregator more generic and link it to the party connected to the grid, it might work for an ESCO

The request from Belgium was discussed:
- The ESCO is seen as a third party, maybe in a smart-grid situation
- It may act as a Resource Provider on a DSO level, e.g. be able to turn up and down consumption and production in a MP
- It may be a role acting on behalf of a Balance Suppliers (BS), a Party Connected to Grid, but also a party acting on its own
- Seen from a Role Model point of view, The ESCO will need to receive metered data from a MP, maybe (in the future) as real-time data

During this item, Kees informed of a draft report regarding Smart-grid, which was distributed to the ETC members and observers.

Conclusion:
- The discussion will be continued when Belgium is present at the meeting

11   tWG

Fedder reported from tWG

- There has been one telephone conference in December
- It is very difficult to find suitable dates for a face-to-face meeting
- Fedder would like to see tWG as a place where ebIX® and ENTSO-E make common positions regarding external organisation, such as IEC
    - E.g., if an organisation want to be included in M490, the organisation must be an international standard, i.e. ebIX® and ENTSO-E input will mainly be ignored, unless it is issued as a CEN, CENELEC or IEC standard, or similar
- Nothing has been done related to a BDH discussion (see memo from ETC, July 2nd 2012)
    - Currently ebIX® and ENTSO-E has different header structure, ENTSO-E even has different structure for different documents
    - When implementing new processes, such as NBS (Nordic Balancing System) where a combination of ebIX® and ENTSO-E documents are used, this "seems strange" for the implementers
- Fedder will bring up the request to change the copyright text in the Harmonised Role Model in tWG, i.e. after the change of legal status of ebIX®

12   Test of different xml schema versions (efficiency differences because of nesting of attributes)

The item was postponed

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

Continued action:

- Kees will follow up and invite to the first telephone conference

Gerrit has re-join the WG and Vlatka will join.

14   Items related to the CuS project

Continued homework from previous meeting:

- Erik is asked to extract the ebIX® code lists as a "Generic Table" and distribute it as soon as possible to ETC for review
- Kees will distribute the Excel sheet with the ACCs, BDTs and ABIEs extracted from Magic Draw before next ETC meeting for review
- At the next meeting it will be decided what to publish at the ebIX® web site

15   Information from ENTSO-E/WG-EDI meetings (Fedder)

The item will be removed from coming agendas, i.e. the item will in the future be a part of the tWG status

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

- May Monday 26th and Tuesday 27th, Sundbyberg (Stockholm)

- June Wednesday 25th and Thursday 26th, Copenhagen or the Netherlands

17   AOB

17.1   Enumerations for Validation and Estimation method
Ove had got a request from the Norwegian Elhub project regarding codes for validation and estimation methods for data from AMR Meters, i.e. if anybody knew of any standards where there are listed codes for validation and estimation methods.

However, no one knew of any such standards.

17.2   Review of pending list
The Pending list in Appendix A was reviewed and updated

Lync was tested as a video conference system and it seems to work well. The pending list item for finding a video conference system was removed from the list.

During this item, it was agreed to submit change requests to UN/CEFACT for new Role codes:

Z06	Reconciliation Responsible
Z07	Reconciliation Accountable
Z08	Billing Agent
Z09	Market Operator

A better definition of the Billing Agent will also be asked to the next HG meeting.

Homework:
- Kees will make change requests to UN/CEFACT for the role codes above
- The change requests for **Z06**, **Z07** and **Z09** will be submitted to the spring meeting of UN/CEFACT
- The change requests for **Z08** will be reviewed at the next ETC

Appendix A   PENDING LIST

1   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 D.

2   Creation of an ebIX® technical presentation

3   How to represent (show) the customised business documents (including OCL restrictions)

4   Review of National code lists

5   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.

6   Review of ETC tasks in Appendix B

7   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

8   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 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 ebIX® RULES FOR ADDRESSING (ROUTING)

D.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.
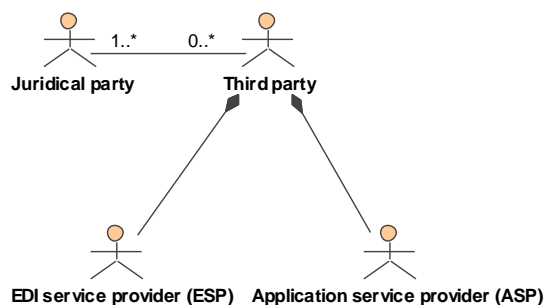
Relationship between roles in document exchange

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.

D.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.