# Minutes ETC meeting, February 6th and 7th 2013

**Date:** Tuesday and Wednesday, February 6th and 7th 2013
**Time:** 09:00 – 17:30 and 09:00 – 15:00
**Place:** Atrias, Brussel
**Participants:** Cédric Dufour, Atrias, Cedric.Dufour@Atrias.be
Davy De Winter, Atrias, davy.dewinter@atrias.be
Fedder Skovgaard, Energinet.dk, fsd@energinet.dk
Jan Owe, SE, Svenska Kraftnät, Jan.Owe@svk.se
Kees Sparreboom, NL, CapGemini, kees.sparreboom@capgemini.com
Ove Nesvik, NO, EdiSys, Ove.nesvik@edisys.no
Thibaut Helin, Atrias, thibaut.hellin@atrias.be
Vlatka Cordes, RWE, Vlatka.Cordes@rwe.com (1st day)

**Attachment:**

Atrias b2b_communications. , see item 3, AS4

ebIX presentation March 2013.pptx , see 4, Preparation of contact with IEC/TC57/WG14

ebIX Rules for the use of OCL statement see item 18.1 under AOB

## 1 Approval of agenda

The agenda was approved with the following additions:

- ebIX® Rules for the use of OCL statements, see 18.1 under AOB
- Use of Business Entities and States in CuS and EMD models, see 18.2 under AOB
-

How making an EDIFACT Business Document and Dispatch, see 18.3 under AOB

During this item the Participant list in Appendix B was updated.

## 2 Minutes from previous meetings

The minutes from previous meeting were approved after correction of a spelling error.

## 3 AS4

At the previous ETC it was agreed to arrange a first meeting in an AS4 project as one of the two days of the ETC meeting, but due to lack of interested participants, presentations etc., the meeting was postponed.

Atrias showed a presentation explaining their requirements for B2B communications. During the presentation the usage of AS4 was discussed and it seems that a conclusion could be that AS4 lacks implementations and vendor support. The question could then be why is AS4 lacking vendor support? Jan also noted that AS4 is mentioned as a candidate Oasis standard.

Fedder was worried that starting an ebIX® AS4 project could create a lot of work for ebIX®. Kees expressed that his expectations is that ebIX® should make specifications on how to use the ebIX® XML documents within an AS4 environment and not do any work regarding AS4 implementation and communication. The ebIX® AS4 work should include such topics as defining the choreography and usage of header elements in ebIX® documents. Fedder also missed a better justification of why choosing AS4, i.e. why not choose other standards, such as MADES?

It was decided that we (ETC) should find out more about current AS4 implementations and vendor support status before we starts up our own ebIX® AS4 project.

***Homework:***

- Kees will try to contact one of the authors of AS4 and find out which vendors that support AS4 and relevant implementations.

## 4 Preparation of contact with IEC/TC57/WG14

Vlatka had received the following mail from Thierry Lefebvre in IEC/TC57:

> *Since our WG16 meets in mid March I would suggest that you participate to our meeting on March 21st to make the situation more clear. This will give to us a better knowledge of what ebIX requirements are, and how we can co-operate together. You are also welcome to attend the TC57 plenary meeting which will take place in Nice on March 18 - 19.*
>
> *In fact, ebIX scope is situated between WG14 scope (Distribution automation) and WG16 scope (deregulated markets, but wholesales markets). At a first glance, my feeling is that WG14 seems to be more relevant than WG16 to address ebIX needs. Unfortunately, WG19 will meet soon in Australia and I guess this could be a long trip to you just for just this purpose. So, I suggest that we size the opportunity of the next WG16 meeting to have such discussions. Then we will see what is the best way to proceed.*

Vlatka started a discussion by showing an overview over IEC/TC57 working groups and proposed *WG16 Deregulated energy market communications* as the best suited WG for the ebIX® needs. Thereafter Vlatka showed a presentation regarding what we should expect from IEC. The presentation was modified and will be used at the coming meeting with IEC.

From the following discussion:

- Kees stressed that we should start with business requirements and thereafter we may look into the information modelling (bringing the ebIX models into CIM) and exchange formats.
- Fedder stressed that all IEC documents and standards are approved by national committees and that ebIX® will have to involve the national committees to get our work approved.
- Fedder asked what to do with the gas sector? Fedder proposed that a solution could be making appendixes to relevant IEC standards explaining how to use it in the gas sector.
- Kees was more sceptical to putting the gas sector as an appendix to IEC standards. As a minimum he thinks it is important that there are no more differences between the European gas- and electricity markets after harmonisation with IEC than before.
- It was however agreed that we need to have the gas sector in our mind when starting the discussions with IEC, but it should not limit the ebIX® progress in the electricity sector.
- Vlatka stressed that the first and currently most important area to harmonise with the gas sector is the Harmonised Role Model.

The IEC-meeting is 20th to 22nd of March. Our next ebIX® telephone conference is planned for March 21st in the morning. The best time for ebIX® to participate seems to be 20th of March, but that means shortening the next HG meeting, which is planned March 19th and 20th. A proposal for shortening the HG meeting was sent to Herwig (HG chairman).

Vlatka and Jan will participate at the first meeting with IEC/TC57/WG16 in March. Under the condition that a ebIX® and IEC agrees to set up a common project it is expected that Kees and Ove will participate together with those who are able from ETC, e.g. Jan, Fedder, Atrias, IPE.

A presentation was prepared for the March meeting with IEC (attached).

At the previous ETC meeting we reviewed a document with background information on the creation of new parallel standards by IEC groups, which should be sent to UN/CEFACT, who should forward it to IEC/TC57. Kees had distributed the following status:

- The reviewed version of the document was sent to the UN/CEFACT vice chair on Thursday 29th of November 2012 (the day after our meeting).
- UN/CEFACT sent it to IEC/TC57 the 3rd of January 2013.
- Tuesday 22nd of January IEC/TC57 and UN/CEFACT answered (see mail from Kees of January 30th).
- ebIX® is invited to participate in a telephone conference between IEC and UN/CEFACT (when IEC agrees);
    - ebIX® is asked to agree to the suggestion to start a work with IEC/TC57 and UN/CEFACT and when agreed, will be asked to participate.

***Conclusion:***

- ebIX® will participate in the telephone conference to clarify problems.
- ebIX® will however not participate as a third party in a common workgroup if this is the outcome from the telephone conference.

Vlatka informed that there has not been any contact with EDSO yet. EDSO is an organisation gathering 30 Distribution System Operators from 17 EU countries, covering 70 percent of the EU points of electricity supply, see http://www.edsoforsmartgrids.eu/.

## 5 Update of ebIX® recommendations for acknowledgement and error handling

The draft "ebIX® recommendations for asynchronous acknowledgement and error handling document" Ove had distributed December 14th last year was reviewed, with special focus on some questions from Ove in chapter A in the beginning of the document and comments in the text. Among others it was decided to write the acknowledgement processes in two steps; Business Requirement and Business Information. Ove will continue the update.

***Homework:***

- Ove will continue the update of the ebIX® recommendations for acknowledgement and error handling.

## 6 Occurrences of a payload

From Jan:

> *During the previous ETC we talked about "How making an EDIFACT Business Document and Dispatch" we said that there could be several payloads in one set of documents (Business Document Set). I.e. to a specific Balance Supplier all metered values for all his Metering Points could be sent in one Interchange (or several).*
>
> *In the ebIX® XML schemas there is just one payload in each document. So if we in a process would for instance send metered values for exchange metering points, we would have to send the flows from A-to-B and from B-to-A in two different messages (the same for aggregated flows from A-to-B and B-to-A). Or? The ebIX® schemas are perhaps more generic than I thought?*
> *In the Danish implementation of the ebIX model the Payload can be repeated in the XML files.*
>
> *When sending a lot of data now between the Swedish actors we have experienced that performance gets better when sending several transactions in one message instead of sending just one transaction in each message (in our case EDIFACT messages). And if the process is about sending several data for just one Metering Point (like an Exchange Point, or a Metering Point with both active and reactive values), it is most likely that you want to receive the time series together, even though you are, in general, allowed to send them separately.*
>
> *If then it is possible in implementations of the ebIX® messages to change repetition of the payload from just one to one-to-many , as they do for XML exchanges in Denmark, where is that stated in our ebIX documentation?*

The question from Jan was briefly discussed and it was concluded that ebIX® in the future will define the cardinality of the payload as [1..*] in the ebIX® models.

***Conclusion***:

- We will in the future define the cardinality of the payload as [1..*] in the ebIX® models.

## 7 ebIX® "Introduction to Business Requirements and Information Models

From Kees:

> *When going over the ebIX® document "Introduction to Business Requirements and Information Models" I noticed that we have made progress over the last two years. And that as a consequence we will have to update this document.*

The item was postponed until next ETC, however with homework for all to comment on the document.

***Homework:***

- Everyone should take a look at the document to see what to update.

## 8 tWG

There has not been any tWG meeting since latest ETC. Next meeting is planned for February 20th. That means no news.

***Action:***

- ETC is asking tWG to see if the changed legal status of ebIX® can be used for changing the copy right text in the Harmonised Role Model.

## 9 Request from CuS:

Kees had as homework tried to find a way of making a dependency-matrix in MD, which should describe the link (mapping) between terms used in the BRV that are not intuitively recognisable in the BIV, however without finding anything useful.

Kees had also as homework to see if he could find another solution than making a new "Party ABIE", such as using different namespaces (e.g. for making it possible to include a *Customer name* in addition to the *Customer ID*). However Kees had not found any better solution than the originally proposed, i.e. adding a new Party ABIE.

***Conclusion:***

- We add a Party ABIE including a *Customer name* and a *Customer ID*, both optional.

Cédric gave a presentation about the Service Delivery Point Concept. The intent was to see if it is in line with the ebIX® model and the Harmonised Role Model, which resulted in a longer discussion related to the definition of the Balance Supplier within the Harmonised Role Model.

During the discussion above Fedder mentioned that we should use the term **DER** (Distributed Energy Resources) when referencing an object (installation) within a Metering Point (Access Point). The term is taken from the Smart Grid terminology and is used for objects, such as wind mills, solar panels, meters etc.

During this item Davy presented some modelling questions, such as how to model XOR dependencies, e.g. when modelling either a person or an organisation? The questions were gone through and answered in plenary.

## 10 ebIX®, EFET and ENTSO-E Harmonisation Group (HG)

Jan and Ove had as homework to propose a definition of the new role *Trader*. The following definition was prosed:

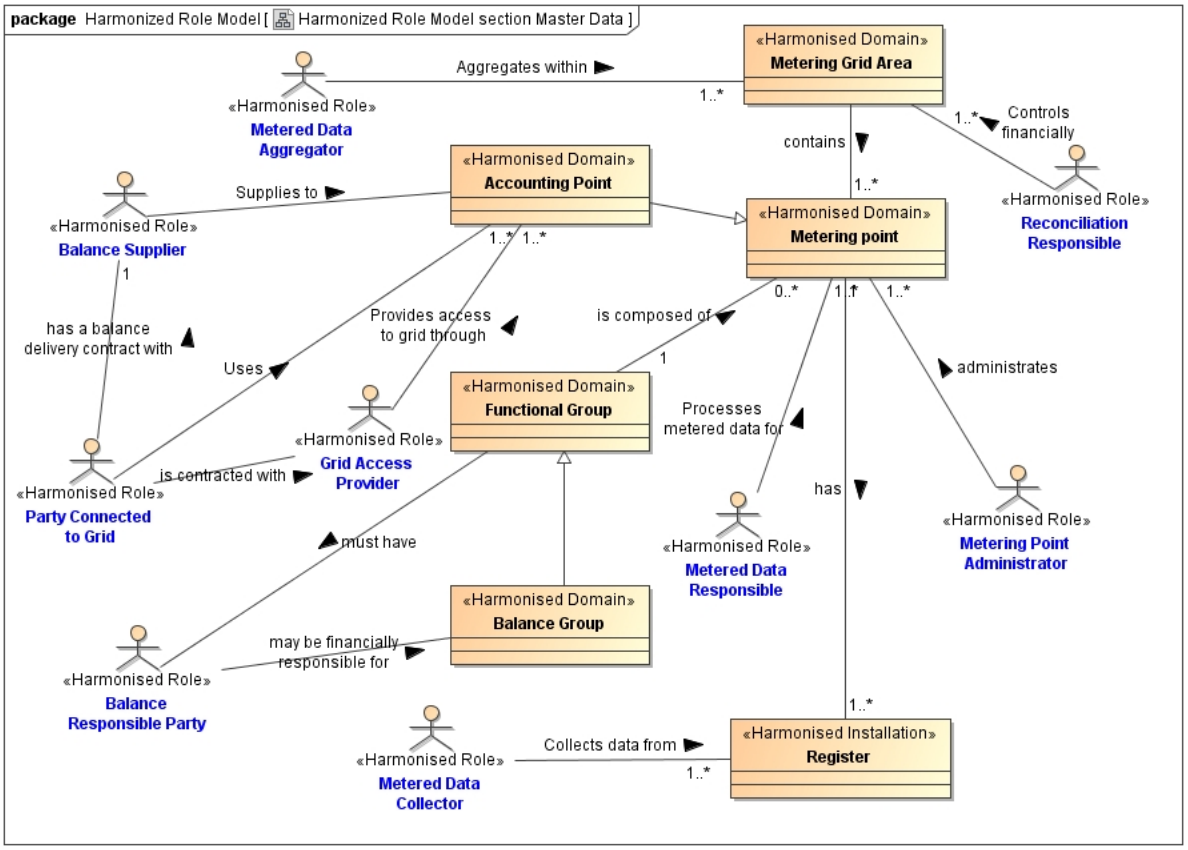
> A Trader is an entity that buys and sells electricity, either on an electricity exchange or by bilateral contracts. Opposite to a Trade Responsible Party, a trader does not necessarily have to be a Balance Responsible Party. A Trader must however have a contract with a Balance Responsible Party, which provides financial security and identifies balance responsibility with the Imbalance Settlement Responsible of the Market Balance Area, entitling the party to operate in the market.

The definition was reviewed. Kees will as homework verify the definition internally in the Netherlands. After verification Ove will send it to the HG.

***Homework:***

- Kees will as homework verify the definition of *Trader*.
- Thereafter Ove will send it to the HG.

Ove had sent the "Proposal for text for the ebIX® subset in the role model" to the HG and got the following comment from Leslaw Winiarski:

> I've got one comment to Appendix B.3. Please check if the scheme is correct.
>
> **B.3 MASTER DATA**
>
> 
> 
>
> The subset of the ENTSO-E, EFET and ebIX® Harmonised Role Model related to the ebIX® Master Data processes concern changes, additions and ending of entities in the European downstream energy market. Examples of such processes are Change of Supplier, End of Supply, Change of Balance Responsible Party and Query/Response Metering Point Master Data.

And, the following comments from Jan:

- The arrow between BRP and Functional Group should be removed from the Harmonised Role Model (including B.1, B.2 and B.3).
- The arrow between BS and Accounting Point is called; "supplies to / Takes from" in the Harmonised Role Model, i.e. B.1, B.2 and B.3 should be corrected.

- We should decide if we want a new version of the Harmonised Role Model to be published (including B.1, B.2 and B.3), even if there are no other changes.

It was noted that the ebIX® model should be updated after each new version of the Role Model. And at the same time the updated Role Model should be checked against the HG minutes.

***Homework:***

- Kees will correct the subset of the ENTSO-E, EFET and ebIX® Harmonised Role Model related to the CuS and EMD models.
- Thereafter Ove will distribute them to the HG.

During the Belgian presentation under item 3 it was noted that we should have a discussion regarding which role to use for some specific tasks, e.g. which role issues new Metering Point IDs; the Metering Point Administrator or the Grid Access Provider? The following discussion led to a proposal of an addition to the definition of GAP:

> A party responsible for providing access to the grid through an Accounting Point and its use for energy consumption or production to the Party Connected to the Grid. The Grid Access Provider issues the Accounting Point Identification.

***Homework:***

- Ove will send the change proposal to the HG.

## 11 Status for review of Slovenian WS implementation

Kees, who was proposed to do the verification, had not heard anything.

## 12 Benchmark test of different xml schema versions

Kees informed that a performance test (benchmark test) of two different xml schemas with the same data context, such as an EMD schema and an ENTSO-E schema is ongoing. The item will be continued.

## 13 Business Document Header (BDH)

Since tWG not has had any meeting since previous ETC meeting and since Andrej was absent, the item was postponed.

## 14 UN/CEFACT project for Alignment of Master Data for Metering Point and of Measured Data

Kees has so far only received information that Stefan De Schouwer has been registered as expert and participant in the "UN/CEFACT ebIX-project", although UN/CEFACT has published a call for participation on October 12 (see the news for that date on the CEFACT website: http://www.unece.org/cefact.html):

> 12 October 2012: UN/CEFACT Bureau has approved the project proposal on Alignment of Master Data for Metering Point and of Measured Data in the deregulated Energy Market (AMD MP & MD). Project Leader, C. Sparreboom, is pleased to announce the Bureau's plans to launch the project and issue this call for participation. The project proposal, sign-up information, and other details are available.

The following participants have already been mentioned in the project plan:

| | |
|---|---|
| **Project Leader** | Kees Sparreboom |
| **Editor 1** | Ove Nesvik |
| **Member** | Vlatka Cordes, RWE, DE |
| **Member** | Gerrit Fokkema, EDSN, NL |
| **Member** | Christian Odgaard, Energinet.dk, DK |
| **Member** | Jan Owe, Svenska Kraftnät, SE |
| **Member** | Norbert Suter, Swissgrid, CH |
| **Member** | Carsten Brass, EDNA/KISTERS, DE |

***Homework:***

- Kees will contact UN/CEFACT asking for a status.

## 15 Upgrade of MagicDraw from version 17.0 to version 17.02

A discussion related to upgrade to the latest MagicDraw version was postponed, due to lack of time.

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

- ENTSO-E Generation, Load and Outage Implementation Guide:
  - Kees (TenneT) had looked into the document and had among others the following comments:
    - There are no requirements attached to the IG
    - Only EIC codes are allowed
    - There are no incentives for the producers and DSOs to publish high quality generation data
  - This is not an ebIX® main-concern and we will not do anything with it. Comments should be sent from the individual TSOs.

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

March 12th and 13th (Tuesday and Wednesday) 2013, Slovenia

## 18 AOB

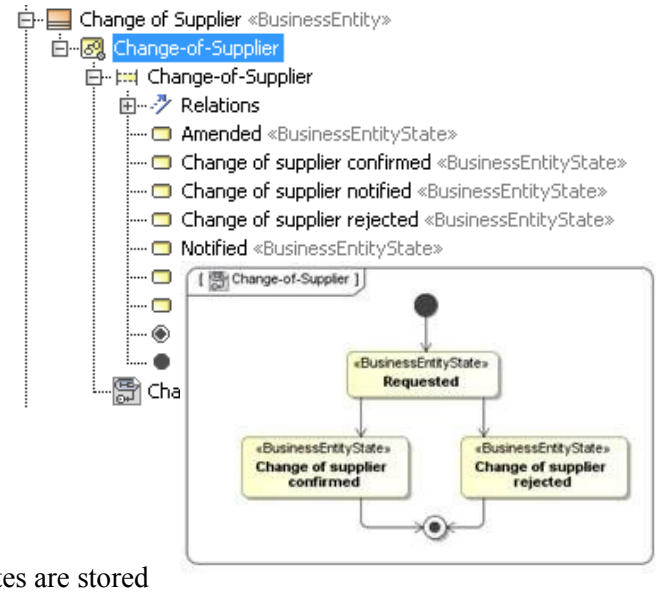
### *18.1 ebIX® Rules for the use of OCL statements*

In the document "ebIX® Methodology, rules for using UMM2" there is a reference to the document *"ebIX® Rules for use of OCL constraints to tailor ABIE's to Business Requirements"*. The latest document (called *ebIX® Rules for the use of OCL statements*) that is available is a draft version from April 2011. Should we finalise the document?

Kees had had a brief look into the document and found that it is mainly up to date. It was however no time to look into it and the item will be put on the next agenda.

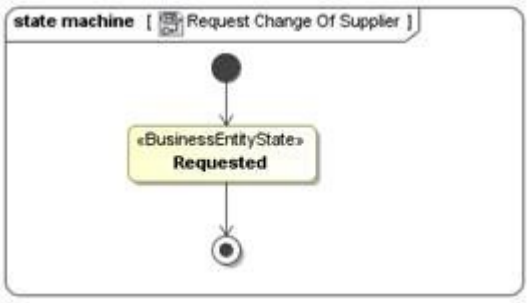
### *18.2 Use of Business Entities and States in CuS and EMD models*

Thibaut had notice a big difference between modelling in Structure and in Measure for what matters Entities: “In Structure the main message class has a State Machine Diagram and, apart, a Class Diagram for each state of the message”.



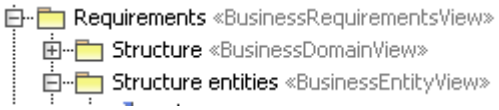

Ove had noted that there should not be any difference between CuS and EMD and that the reason for the difference is that the CuS model hasn’t been cleaned up after we aligned the usage of states between CuS and EMD a year or two ago. Before this alignment the CuS model used “general Business Entities”, such as “Change of Supplier” for storing the states. These states were used in a state-machine for showing the different state of a process, such as:

EMD had used another principle where the states are stored below each document and during the alignment discussion it was agreed to use the EMD principle, such as:



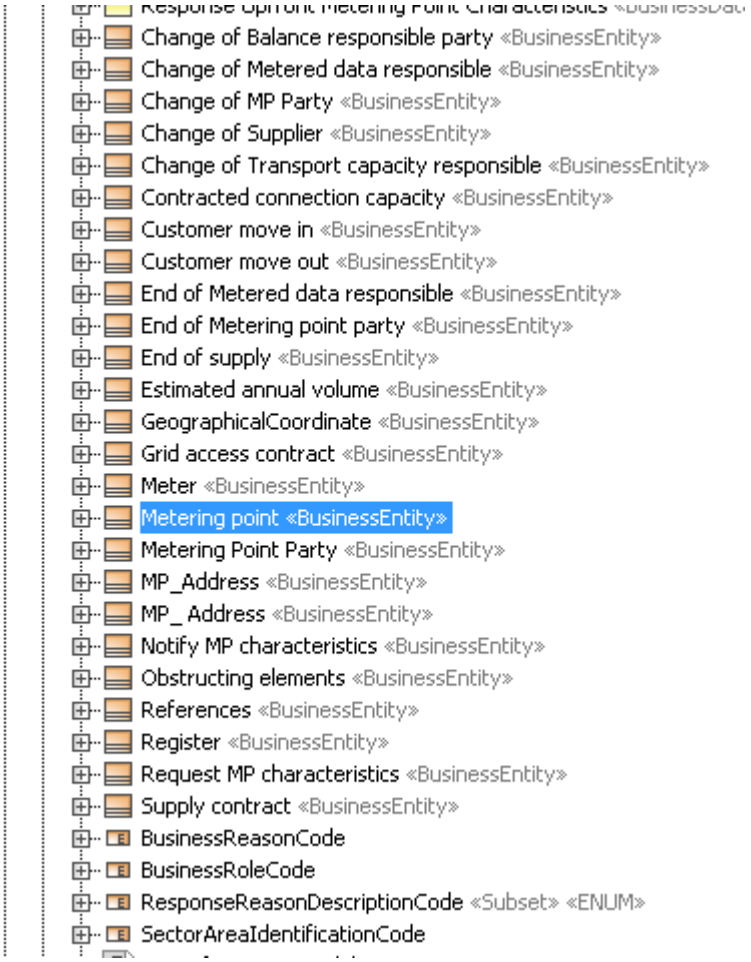


The “general Business Entities” have not been removed from the model yet; however the “general Business Entities” are not used in the actual Business Requirement Views anymore.



Ove will propose to clean up the CuS model, which means removal of the following Business Entities (and enumerations):

It was however no time to look into this item either and also this item will be put on the next agenda.



### *18.3 How making an EDIFACT Business Document and Dispatch*

At the previous ETC; Ove got as homework to update appendix D and publish the updated «ebIX® common rules and recommendations» at www.ebix.org, which had been done.

Kees noted however the following:

> This appendix is about the additional information required to exchange a payload in the present model as an EDIFACT message within an EDIFACT interchange (now called Despatch in the updated appendix). To be discussed, since I have at least one open question (see my comment in the document) and you may find others.

The comments from Kees, regarding Appendix D in «ebIX® common rules and recommendations», was reviewed and updated. Kees will finalise the update as homework and thereafter the «ebIX® common rules and recommendations» will be published.

***Homework:***

- Kees will finalise the update of «ebIX® common rules and recommendations». Thereafter Kees will send Appendix D to Ove, who will publish it.

**---------- If time items ----------**

Due to lack of time the "If time items" was postponed.

## Appendix A THE TASKS OF ETC

| Task | Group | Priority | Planned |
|---|---|---|---|
| Making ebIX® Recommendations for usage of WEB services including recommendations for acknowledgement and error handling | | High | 2012 |
| Review of "Rules for ETC" with special focus on maintenance procedures moved from the ebIX® Methodology | | Medium | 2012 |
| Maintain the ebIX® technical documents:<br>• ebIX® Rules for the use of UMM-2.0<br>• ebIX® common rules and recommendations (v1r1D)<br>• ebIX® Recommendations for asynchronous acknowledgement and error handling (v1r0C) | | <br>Urgent<br>Medium<br>High | <br>Q4 2011<br>2012<br>2012 |
| Other tasks:<br>• Restructuring of UTIL-messages to reflect the structure of CCs (if we keep on mapping to EDIFACT)<br>• 2nd generation Harmonized Role Model for Electricity and Gas<br>• ebIX® Header | <br><br><br>CuS, EMD and ETC<br>Together with ENTSO-E? | <br>Low<br><br><br>High<br><br>High | <br>?<br><br><br>2012<br><br>2012 |
| Maintain ebIX® profile for MagicDraw, including:<br>• Core Components<br>• Code lists<br>• Templates, etc. | | Continuous | |
| Participation/representation in the ENTSO-E and ebIX® technical WGs<br>• Maintaining harmonised role model<br>• Core Components<br>• Information exchange between participation organisations | Together with ENTSO-E | Continuous | |
| Participation in UN/CEFACT | | Continuous | |
| Cooperation with IEC/TC57/WG16 | | Question to ebIX Forum | ? |
| Organise implementation support, such as:<br>• ebIX® course<br>• Implementation support for participating countries, such as inserting/updating codes. | | Continuous | |
| Supporting ebIX® projects, i.e.:<br>• Develop and maintain the UMM *Business Choreography View* and *Business Information View* from the CuS and EMD working groups.<br>• Develop and maintain XML schemas based on the *Business Information View* from the CuS and EMD working groups | | Continuous | |

## Appendix B PARTICIPANTS IN ETC

| Name | Company | Telephone | Mobile | E-mail |
|---|---|---|---|---|
| Andrej Bregar | Informatika | | | andrej.bregar@informatika.si |
| Christian Odgaard | Energinet.dk | +45 76 22 44 63 | +45 23 33 85 55 | cco@energinet.dk |
| Fedder Skovgaard | Energinet.dk | | +45 233 38 521 | fsd@energinet.dk |
| Jan Owe (Convenor) | Svenska Kraftnät | | +46 705 396 930 | Jan.Owe@svk.se |
| Kees Sparreboom | TenneT | | +31 622 66 7911 | kees.sparreboom@capgemini.com |
| Ove Nesvik (Secretary) | EdiSys | +47 22 42 13 80 | +47 928 22 908 | ove.nesvik@edisys.no |
| Thibaut Helin | Atrias | | | thibaut.hellin@atrias.be |
| | | | | |
| **For information:** | | | | |
| Alexander Pisters | E WIE EINFACH Strom & Gas GmbH | +49 234 515-2442 | +49 162 257 5428 | Alexander.Pisters@rwe.com |
| Cédric Dufour, Atrias | Atrias | | | Cedric.Dufour@Atrias.be |
| Chris de Jonge | Atrias | | | chris.dejonge@atrias.be |
| Christian Le | Statnett | | +47 404 53 744 | christian.le@statnett.no |
| David Batič | Energy Agency of the Republic of Slovenia | | | |
| Jon-Egil Nordvik | Statnett | +47 22 52 70 00 | +47 975 36 303 | jon-egil.nordvik@statnett.no |
| Lucy Sarkisian | TenneT | | +31 613 643 092 | l.sarkisian@tennet.org |
| Stefan De Schouwer | Atrias | | | Stefan.DeSchouwer@atrias.be |
| Tomaž Lah | Energy Agency of the Republic of Slovenia | | | Tomaz.Lah@agen-rs.si |
| Vlatka Cordes | RWE | | | Vlatka.Cordes@rwe.com |
| | | | | |
| **Observers:** | | | | |
| Carsten Brass | EDNA | +49 241/9671 194 | | Carsten.Brass@kisters.de |

## Appendix C EBIX® HEADER

To remember:

1. Do we want this 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.
2. Do we need at test indicator?
3. The content of the Energy Document and Energy Context ABIEs needs a review

## Appendix D EBIX RULES FOR ADDRESSING (ROUTING)

### *18.4 Definitions*

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

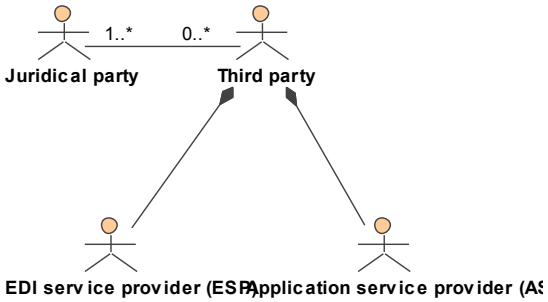
**Business process id:** The key element in routing and addressing is the Business process that will be identified by a code called the Business Process Identification (BPI). BPI also serves as the key element to indicate the business process capabilities of a party. The user group, government agency,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



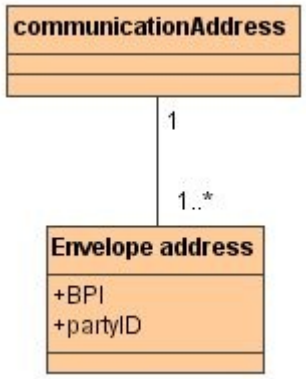

*Relationship between roles in document exchange*

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.

### *18.5 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.