Minutes ETC meeting, May 2nd and 3rd, 2016

Date: Monday and Tuesday May 2nd and 3rd, 2016
Time: 10:30 – 17:30 and 09:00 – 14:00
Place: Atrias offices in Brussels
Present: Jan (Convenor), SE
              Kees, NL
              Ove (Secretary), NO
              Thibaut, BE
Appendixes: **Appendix A,** Pending list
              Appendix B, The tasks of ETC
              Appendix C, Agreed additions to the ebIX® Business Information Model 2016.A
Attachment:

1   Approval of agenda

The agenda was approved with the following additions:

- Overview requested codes for REC20 for Utilities, see 8.5
- codeListAgencyIdentifier usage in ebIX model, see item 16.1 under AOB
- Master data for areas, see item 16.2 under AOB
- Update of ebIX® position related to addressing in business documents, see 16.3 under AOB

It was agreed to reduce the number of pages from the minutes and agenda. As a minimum we should not have the same appendixes in both the agendas and the minutes.

2   Minutes from previous meetings

The minutes from previous meeting ware approved.

3   Resolve matters from latest ebIX® Forum

- Action Item 2016a-04: For next meeting, Jan (supported by Ove if needed) will prepare a business-focused presentation on how standards (ebix, cim, uncefact) interrelate.

    Discussion:
    - ebIX® will not submit BIEs to UN/CEFACT, only CC
    - The BIEs will be harmonised in IEC/CIM

    Action:
    - Jan will prepare a business-focused presentation on how standards (ebix, cim, uncefact) interrelate for review at next ETC.

- Decision: extensions and changes to HRM related to data hubs from Nordics will go first to ETC and then to HG. If we can't agree in ETC, then it will be sent to HG directly.
  More effective, otherwise it will reach ETC through national groups.

  Conclusion:
    o Taken "ad notam"

- Decision: technical requirements for IEC will be sent directly to ebIX members before being sent to IEC, including an executive summary not requiring in-depth knowledge. The requirements will be distributed ultimately in May.
  The result of this TR will be a description on how to extend the CIM model.

  Conclusion:
    o Taken "ad notam"

- Action Item 2016a-06: organize web conference to guide ebIX Forum members through the TR document.

  Conclusion:
    o Taken "ad notam"

- Action Item 2016a-07: Jan will find out the proper way to remain aligned and get the right priority within IEC, and reports back on how Lucy or other forum members can help to influence.
  Proper governance with IEC is needed to maintain the aligned models.

  Jan had investigated how the TR shall be submitted to IEC. Mainly from the national Swedish IEC committee:

    o All documents to be circulated within an IEC committee (e.g. TC57) must go via the secretary.
    o There are no rules regarding who can submit a TR to the secretary, but it is advised that a letter follows the submission where ebIX® is mentioned as the submitter.
    o The TR is sent to the secretary with a copy to the IEC Technical Officer.
    o A submission number is allocated by IEC.
    o Someone must handle possible comments. If here are no dedicated WG for the task, it is assumed to be the secretary. In our case it will probably be the WG16 or the WG16 TR project group.
    o The secretary in TC57 is Heiko Englert and the IEC Technical Officer is Charles Jacquemart.

  Conclusion:
    o Jan will add it to the presentation (see above)

4 ebIX®, EFET and ENTSO-E Harmonised Role Model (HRM)

4.1 New roles related to smart processes

ebIX® has as action item from HG to prepare a proposal for addition of new elements (roles) because of smart processes before next HG meeting, such as roles "ESCO (Energy Service Company)", Demand Response Aggregator, Balancing and/or Congestion Services etc. and how such roles can be integrated (add, update…) in the HRM. In Belgium, the following roles have been defined:

Balancing Service Provider   A market role that offers balancing services to the TSO
Flexibility Service Provider   A market role which sends a signal to a Producer or Consumer and offers its flexibility to a third party. An Aggregator is a FSP with a pool of flexibilities."

Action from previous meeting:
- Lucy and Vlatka will be asked to come up with a list over national members of EDSO and USEF that we can contact for verification of the proposal from Kees;
- ETC members having national colleagues that participate in USEF and/or EDSO are asked to verify the proposal with them before next ETC meeting;
- Kees will add proposals for definitions to the Magic Draw model containing the proposal for new roles and domains and distribute the model to ETC.

The creation of an ebIX® project that will look into the new roles related to smart processes, with a special focus on flexibility markets, was discussed and agreed at an ebIX® meeting April 29th. The homework above will be taken care of by the new project.

Under this item an HRM MR for the new role ESCO, from Atrias (Thibaut), was discussed. The MR has earlier been submitted to ENTSO-E.

From discussion:
- Thibaut explained that the ESCO has nothing to do with flexibility, but a role that uses metered data from MPs, among others for energy efficiency purposes.
- To get metered data for the MP, the ESCO need a contract with the Customer.
- The same role is also modelled and used in the Nordic data hubs, however called a Third Party.
- There can be several ESCOs connected to MP.
- The original Atrias definition:

    "A party that provides a broad range of energy solutions including designs and implementation of energy savings projects, retrofitting, energy conservation, energy infrastructure outsourcing, power generation and energy supply, and risk management to the party connected to the grid based on data received from the Metering Point Administrator, the Metered Data Responsible, the Billing Agent."

- The USEF definition of an ESCO is:

    "The ESCo offers auxiliary energy-related services to Prosumers but is not directly active in the energy value chain or the physical infrastructure itself. The ESCo may provide insight services as well as energy management services."

- ETC proposal:

"The ESCO offers auxiliary energy-related services to the **Party Connected to Grid** but is not directly active in the energy value chain or the physical infrastructure itself. The ESCO may provide insight services as well as energy management services."

- Kees asked if we should add the role Prosumer to the HRM, as a new role inheriting from both the Producer and the Consumer. This was however skipped for the time being.
- The USEF "definition" of an Prosumer is:

  The role of the consumer transforms into that of the Prosumer. Residential end users and small and medium-sized enterprises become active up- and downloaders of energy. Prosumers offer their flexibility, resulting from the Active Demand & Supply they own, to the market. Empowered by insight services provided by an Energy Service Company, they may economically optimize the use of their assets and improve their energy efficiency. Not all consumers are expected to transform into Prosumers, but for the sake of simplicity, we include only the Prosumer in the roles model. In this model, traditional consumers are Prosumers who consume but do not produce energy.

- Kees verified during the meeting that USEF do not have any problems with changing the definition of the ESCO (renaming Prosumer to Party Connected to Grid). However, we should send the MR to USEF for information, together with the submission to the HG.
- Kees also verified with Lucy that there should be no difficulties with the ENTSO-E DSO/TSO project

The slightly modified MR was sent to the HG.

The item was closed as an ETC item. However, ETC will follow up the work in the ebIX® project that will look into the new roles related to smart processes, with a special focus on flexibility markets.

4.2   The relevance of the HRM

ebIX® is asked to discuss the essential relevance of the HRM, i.e. which roles and domains should be included in the HRM and about what we expect from the role model (what is the essence for us of the HRM). All ETC members and the ebIX® HG members had as action from previous meeting to comment on the proposed scope of the HRM:

- The primary focus of the HRM;
    - exchange of market information;
    - roles should reflect market responsibility related to exchange of information – not responsibilities related to physical devices.
- Additionally:
    - roles and domains related to physical devices are only added to the HRM when needed for support of market processes.

The proposal above was agreed and sent to the HG, together with the MR for ESCO. Also the figure below was discussed and will be presented at the coming HG meeting.
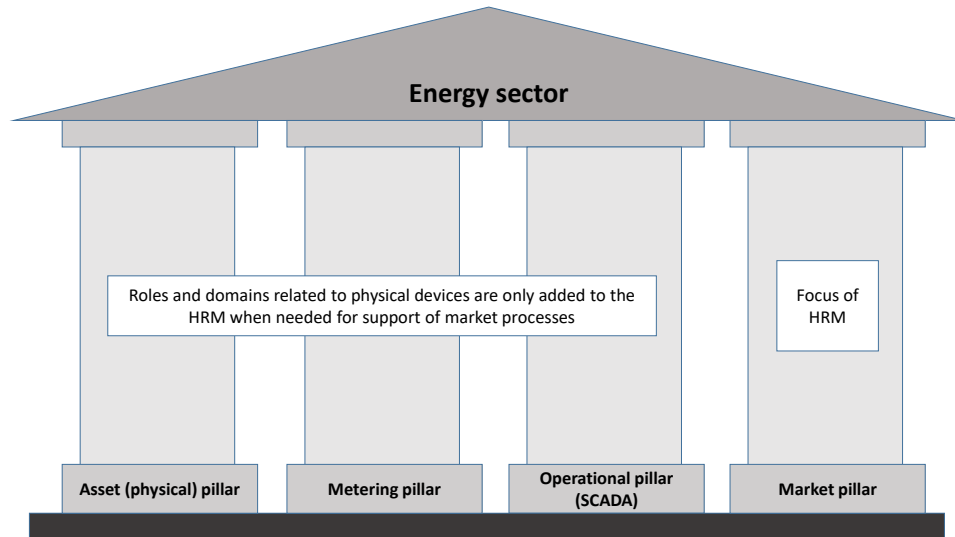
The item was closed.

5   Status and continuation of ebIX®/IEC trial project

The work is continuing. Hopefully the last meeting will be held next week, May 12th and 13th. Thereafter the TR will be forwarded to ebIX® and IEC.

6   AS4

Action from previous meeting:

- ETC ask Kees to ask Lucy and Vlatka if they will bring up the question if an AS4 Client for MADES 2.0 could be a common project between ENTSO-E and ebIX® next time they have a meeting with ENTSO-E.

Kees informed that he has asked the German WG-EDI members and the Dutch member of the ENTSO-E MADES WG. However, the action item above will be continued.

The item will be followed up at the next ETC meeting.

7   Status for publication of ebIX® Business Information Model 2014.A

During the meeting, Kees sent the 2014.A version to the ebIX® WEB-master, for publication. However, web-master is on holiday and the publication will probably take place after May 10th.

The item is closed.

8   ebIX® Business Information Model 2016.A

Postponed.

Agreed additions to the ebIX® Business Information Model 2016.A are found in Appendix C

8.1 Continue review and update of version 2016.A
Postponed.

8.2 CuS BIMs ("to remember item" until ebIX® model 2016.A is agreed)
Postponed.

8.3 How to represent the exchange of calorific value in ABIEs
For information, an example on how Belgium do this can be found at:

http://model.atrias.be/umig6/?refid=_17_0_2_2_eac0340_1366365989376_189886_32631 and http://model.atrias.be/umig6/?refid=_17_0_2_eac0340_1370267712177_852424_57536 (the Calorific Value is identified by a Product code)

The item was postponed, but Kees still got an action item.

Action:
  * Kees to come up with a proposal for how to represent the exchange of calorific value in ABIEs.

8.4 How to extend the possibilities for national customisation?
Postponed.

8.5 Overview requested codes for REC20 for Utilities
Kees had by mail informed that the complete set of new codes in Recommendation20 that we asked for has been published. All the codes are added to the UML model.

	Code requested[1]	Description	Present in rev11e2015	Not present in rev11e2015	Added in rev12e2016
1.	NM3	Normalised cubic metre	NM3		
2.	SM3	Standard cubic metre	SM3		
3.	Q32	Standard cubic metre per day	Q37		
4.	Q33	Standard cubic metre per hour	Q38		
5.	Q34	Normalized cubic metre per day	Q39		
6.	Q35	Normalized cubic metre per hour	Q40		
7.	Q36	kilo Watt hour per normalized cubic metre		X	KWN
8.	Q37	kilo Watt hour per standard cubic metre		X	KWS
9.	Q38	Joule per normalised cubic metre		X	Q41
10	Q39	Joule per standard cubic metre		X	Q42

The item is closed.

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[1] Color green indicates, that the exact code has been used as we proposed; color red indicates, that UN/CEFACT has issued another code for the same requested definition.

9 Status for letter to MD and EA regarding compatibility

Postponed.

10 Code lists from MD model in Word format

Postponed.

11 Making a plan for support for new countries that want to use the ebIX® model

Postponed.

12 Status for update of the TT (Transformation Tool)

Still some smaller problems (in the header part of generated schemas). For the moment it will be unprofessional to publish it.

A status will be put on the next agenda.

13 Creation of an ebIX® technical presentation

Postponed.

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

No changes. If we are going to submit anything, it will be CCs and not BIEs.

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

Thursday July 14th and Friday July 15th, Poland, Denmark or Oslo – **Note changed date**
Tuesday September 13th and Wednesday September 14th, Denmark (?)

16 AOB

16.1 *codeListAgencyIdentifier usage in ebIX model*

Thibaut was a little bit surprised to see that this point had been discussed in the last ETC meeting as Belgium wasn't available. Thibaut is also surprised of the decision that places the ebIX® XSDs outside the UN/CEFACT rules. Belgium will probably adapt on their own way the elements to remain UN/CEFACT compliant and not to follow ebIX® point of view.

From previous minutes:
1. There is no easy or practical solution
2. We shouldn't solve it, i.e. the source code list for literals in assembled code lists is clear in the UML model. When generating the XML schema this information will be lost, however the meaning of the codes in the schema can be seen in the model and the interpretation of a

received code is an issue for the application, which must be taken from the requirements in the model.
3. The schema will have all valid codes but not describe all valid combinations of codes, e.g. not which list identifier that can be used together with which national code.

Thibaut explained that what he want is information about where the literals in an enumeration originates from. He showed an example of what he wants:

```xml
<xsd:annotation>
    <xsd:documentation>
            <xsd:group name="ListDocumentation">
                    <xsd:sequence>
                            <xsd:element name="uniqueIdentifier" fixed="BE000385"/>
                            <xsd:element name="versionIdentifier" fixed="0.1.A"/>
                            <xsd:element name="listAgencyIdentifier" fixed="5"/>
                            <xsd:element name="listIdentifier" fixed="BEL"/>
                            <xsd:element name="ListModificationAllowedIndicator" fixed="FALSE"/>
                    </xsd:sequence>
            </xsd:group>
    </xsd:documentation>
</xsd:annotation>
```

The information is available in the MD model and also in the xmi-file from MD.

After some discussions it was agreed to add the new functionality in the tool.

Action:
- Thibaut will make a proposal for an update request for the TT

    For the TT:
    1. Add annotation derived from tagged value (incl. modificationAllowedIndicator) for each particular enumeration (only)
        ▪ Similar structure for all enumerations; assembled and others
    For ETC (in the MD model):
    2. Add value "false" for modification indicator (to be added to ebIX® module UMM)
    3. We open the use for listID as optional in all «BDT» constraints
    4. We specify the allowed values for agencies and listID in ebIX® constraints
- The proposal will be sent to ETC for verification

16.2   Master data for areas
From Kees:
- Till now ebIX® has limited its efforts on defining master data to metering point (MP), party and meter. We assume that information on areas we use is available somehow. And we refer to the ID of an area in the master data MP.
- In ebIX we try to avoid to create areas just for the aggregation of data. The exception is at the moment the Balance Group. But this one just recently has changed into an account (and is according to the role model update not an area anymore). ENTSO-E WG EDI at the moment knows some areas just for the sake of aggregation, but is about to change its position on this (to

a position in line with the present ebIX practice). This will lead to the need for master data for areas.

- I see in ENTSO-E also other developments regarding area, that may or will lead to the need for master data for areas and/or to the need for alignment of the area concept for markets and the area concept for operations. For markets areas are being defined as composites (they are an aggregation of the underlying smaller objects) whilst for operations areas are defined by their boundaries (such as tielines). In IEC this is reflected in the approach of wg16 (markets) as opposed to the approach of wg13 (operations). When I assume that both approaches have relevance and their logical basis, it will be difficult to choose one of these approaches as the right one for everybody. So we probably have to live with two different approaches. But especially then it will be vital to make sure that both concepts are aligned in real life. And I think this starts with master data. And continues with a procedure/business process for the alignment between the real life content of both concepts.
- All in all: I think we better prepare for our ebIX contribution in solving these issues. And I think the ebIX contribution will be in the concept for the definition of master data for areas and the use of areas for aggregations (1a and 1b) and the actual specification of master for areas and the linked process for alignment between the operations-area and the market-area on the various levels (2a and 2b). I suggest to start this exercise in ebIX ETC (on the concepts we think we can/have to use) and continue this in ebIX Cus for the actual specifications.

From Jan:
- Yes, this is an interesting area.
- In the Nordic region we have described the exchange of Master data for areas, and is starting to exchange it. As Kees, I see both the needs for the operational part of CIM [WG13] and for the market part of CIM [WG16]. And for Master data we can go all the way down to exchange metering points. Points linked to two metering grid areas (MGAs).
- Regarding areas we can see a possible difference between WG13 and WG16 where WG13 is more interested in describing all physical "objects" within an area or "objects" connecting to another area, where WG16 is more interested in describing the metering points within and between metering grid areas, and totals per area (for a market participant) plus relations to other kinds of areas (like MGAs relations to Bidding Zones or Market Balance Areas).
- And these possible different views should both work.

Kees presented some class diagrams, which were used as a basis for a first discussion related to master data for areas. The discussion will continue in CuS.

16.3   Update of ebIX® position related to addressing in business documents
Postponed.

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.

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) 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	2016
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: • 2nd generation Harmonized Role Model for Electricity and Gas • ebIX® Header	HG	Medium High	2016 2016
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	

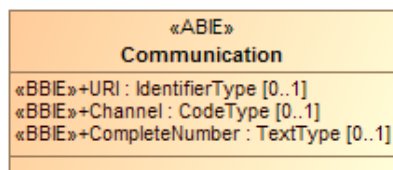## Appendix C   Agreed additions to the ebIX® Business Information Model 2016.A

C.1   BIE changes, e.g. cardinalities:

1) Change the cardinality of the association from "MP Event" to "MP Address" to [0..*]
2) Add a language attribute to "MP Address"
3) Add Aggregated Reception Station (ARS), as an ASBIE, with XOR between the ARS and Calorific Value Area (CVA)
4) Add CVA, as an ASBIE, with XOR between the ARS and CVA
5) Rename MP Characteristics class to MP Administrative Characteristics
6) Add MP Physical Characteristics, containing:
   a. Connection Status (Moved from MP Administrative Characteristics)
   b. Disconnection Method
   c. Capacity of Metering point (Moved from MP Administrative Characteristics)
   d. Voltage Level (Moved from MP Administrative Characteristics)
   e. Pressure Level (Moved from MP Administrative Characteristics)
7) Add Capacity of Metering point
   a. Definition:

      Capacity of a Metering point is the maximum physical capacity of the Metering Point.

      For electricity the maximum capacity for the Metering Point is given in kW or MW and calculated from the nominal voltage level, number of phases and current limitations.

      For gas the maximum capacity for the Metering Point is given in m3/hour, usually determined by the physical constraints of the (nozzles in the) Meter.

8) Add a new ABIE Energy Label, with two BBIEs; Technology Type and Fuel Type
9) Add an attribute "Disconnection Contract" (Boolean) in MP Administrative Characteristics
10) Change the Country Name (text) in the MP Address class to Country (coded)
11) Add BDT for Energy Label Fuel
12) Rename BDT Energy Generation technology Type to Energy Label Technology Type
13) Add an BBIE "number of phases" to MP Physical Characteristics
14) Add a new ABIE; Communication:

«ABIE»
Communication

«BBIE»+URI : IdentifierType [0..1]
«BBIE»+Channel : CodeType [0..1]
«BBIE»+CompleteNumber : TextType [0..1]

15) Rename the BBIE Unit Type in the ABIE Product Characteristics to Quantity Unit Type and add a BBIE Price Unit Type to the ABIE Product Characteristics

C.2 New enumerations and/or DT:

1) Add an enumeration for ISO Language codes, based on ISO 639-1988
2) Add an enumeration for Energy Label Fuel type, based on CENELEC standard, imported from Atrias implementation
3) Add an enumeration for Energy Label Technology type, based on CENELEC standard, imported from Atrias implementation
4) Add enumeration "Communication channel", ebIX® subset with the following literals, based on 3155:

    AL   Cellular phone
    EM   Electronic mail
    FX   Telefax
    TE   Telephone

5) Add an enumeration "Communication channel", ebIX® subset, based on 3131 Address type, code with the following literals:

    1   Postal address: The address is representing a postal address
    3   Physical address; The address represents an actual physical location.

6) Remove all predefined facets, such as maxLength