 European forum for energy Business Information eXchange	Minutes, CuS Meeting, December 3rd and 4th, 2013
CuS, Structuring of the energy market, phase V	December 18 th , 2013

Minutes – CuS project meeting, December 3rd and 4th, 2013

Date: Tuesday and Wednesday, December 3rd and 4th, 2013

Time: 09:00 – 17:00 (18:00?) and 9:00 – 16:00

Place: Edisys, Oslo, Norway

Participants: Boštjan Topolovec, Represent Section IPET, SI

Christian Odgaard, Energinet.dk

Gerrit Fokkema (Convenor), EDSN, NL

Joachim (Joe) Schlegel, RWE, DE

Kees Sparreboom, TenneT, NL

Ove Nesvik (Secretary), EdiSys, NO

Thibaut Hellin, Atrias, BE

Torleif Korneliussen, Hafslund, NO

Apologis: Eva Lepperhoff, RWE, DE

Emma Lindgren, Vattenfall, SE



ebIX Cancellation
v1r0C.doc

Enclosure:

, see item 9, Cancellations



ebIX BRS for
Structure for Metere

See item 5, Resolve matters arisen after previous CuS meeting



ebIX BRS for
Structure for Metere

See item 5, Resolve matters arisen after previous CuS meeting



Memo_masterdata_
EDSN_ebIX_2013111

See item 3, Status for Business Requirement Views (BRV) for publication

1 Approval of agenda

The proposed agenda was approved

2 Minutes from previous meeting

The minutes from previous meeting were approved

3 Status for Business Requirement Views (BRV) for publication

Kees reported from a discussion at an EMD meeting the week before, on how to map the element names used in the business requirements (BRS) to the element names used in the business information models (BIM). Kees showed a UML class diagram made in MagicDraw (MD), where the relation between BRV attributes and BIM attributes were shown as dependencies, which looked like a “mess”. Kees also showed a table made in MD where the BRS attributes were listed vertically and the BIM attributes were listed horizontally, and the relation between the attributes were shown as small arrows.

Where to present the relationship, i.e. in the BRS or the BIM was discussed:

- Thibaut thinks that the BIM is the right place, since you need references to the BRS in the BIM, but not vice versa.
- Kees thinks however, that also the business people may need the mapping information
- Ove noted that the topic also is discussed in the projects for Harmonised Nordic Retail Market (HNR) and Nordic Balancing System (NBS), where the current solution is making a table in the BRS, having one column for the ebIX® BRS attributes and one column for the ebIX® BIM (XML) attributes.

Conclusion:

- The MD table seems as the best way of showing the relationship and the BIM seems to be the right place to publish them.
- The conclusion will be forwarded to ETC as a proposal.

Comments to the BRSs from Gerrit was reviewed. See discussions and conclusions in Appendix C.

During this item Thibaut showed some examples of the Belgian requirements, these can be found at the Atrias English website: http://www.atrias.be/UK/Pages/Publications_UMIG60.aspx

Gerrit had also compared the ebIX® MP Characteristics with the Dutch implementation and proposed the following added attributes to the ebIX® model:

Element	Description	Examples of enumerations	Comment
Metering Point, Physical Characteristics Disconnection Method	The way the physical connection at the MP is disconnected or needs to be reconnected	Inside Outside	
Metering Point, Physical Capacity	Metering Point Physical Capacity	Exx (one for each capacity), such as 1x6/1x25/1x35/1x50/1x63/ 1x80/3x25/3x35/3x50/3x63/ 3x80/Unknown Eyy (one for each capacity Gas), such as G4/G6/G10/G16/G25/G40/ G65/G100/G160/G250/ G400/ G650/G1000/G1600/ G2500/Unknown	May (for electricity) be split into a Capacity value element and a Number of phases element
Metering Point, Sustainable Energy	The kind of sustainable Energy produced in the Metering Point	Not applicable Green solar Green hydro power Green wind Green bio mass Green combination	
Metering Point, Switchability	Information if there are restrictions for change of supplier in this Metering Point	Always Conditionally Temporary Regarding security of supply	

Emma had commented the following BRSs, which were reviewed. In general all comments were agreed and Ove will update the documents:

- ebIX Business Requirements for Change of supplier Draft v3r2A 20130917_el131009.doc
- ebIX Business Requirements for Change of Transport Capacity Responsible Draft for v3r2A 20130918_el131009.doc
- ebIX Business Requirements for Change of Balance Responsible Party Draft for v3r2A 20130917_edgrl131009.doc
- ebIX BRV for Customer Move v3r2A 20130918_el131009.doc

The project for a Harmonised Nordic Retail Market noted some errors in the CuS BRS for Customer Move:

- An arrow is missing in chapter 1.2.3.2.
- The Notify MP Characteristics UseCase in chapter 1.2 should probably be removed

Conclusion:

- The first bullet will be corrected. The second bullet is correct in the BRS, i.e. the notification will be sent to “Linked parties”, such as MDR

Actions:

- Everyone were asked to verify nationally if the BRSs need improvement and if yes, what kind of improvements, such as:
 - If stereotypes should be removed from artefacts and or tables in the BRV documents
 - If enumerations should be removed from class diagrams or moved to a separate table or similar
 - If there is a need for added text to the artefacts in connection to, or within, the BRSs and if yes, what the content of text could be.
- Everyone was asked to verify nationally, the need for the following additional elements as MP characteristics (see table from Gerrit above):
 - Metering Point, Physical Characteristics Disconnection Method
 - Metering Point, Physical Capacity
 - Metering Point, Sustainable Energy
 - Metering Point, Switchability.
- ETC will be asked to see if Business Categories should be added.
- Gerrit was asked to investigate what improvements the addition of Business categories will give the ebIX® UMM model.
- Ove will correct the spelling errors noted from Gerrit in Appendix C.
- Ove will correct the remarks from Emma in all 10 BRSs, including removal of the following remarks from all 10 BRS documents and Kees will add the remarks to the “Introduction to ebIX® models”
 - The ~~change~~ processes should be as automated and efficient as possible and within the rules of the legislation.
 - Business agreements have been made between the different parties and the participating parties must be able to communicate electronically with each other.
- Ove will do the updates above and publish the 10 BRSs.

4 Status for cooperation with Eurelectric and CEDEC

Gerrit had as homework from previous meeting to contact the Dutch CEDEC member to see if we can do anything together. Gerrit has not had the opportunity yet, so the homework will be continued.

Homework:

- Gerrit will contact the Dutch CEDEC member to see if we can do anything together.

5 Resolve matters arisen after previous CuS meeting

Questions from CuS to ETC from previous meeting

- Could we add a Snapshot-Date to the Information View for Notify Metering point Characteristics, which will allow for addition on a national level?

Answer:

- Yes, is currently in the ebIX® model (in the BIE).

Discussion:

- We can however not add the Snapshot-Date to the BRS without a circulation for comments.

Conclusion:

- For the time being the Snapshot-Date will be in the ebIX® model for national customisation and not be added to the BRS.

- Can we publish UTLMD and UTILTS IGs?

Answer:

- Is on the next ETC agenda.

Conclusion:

- CuS will not do anything more with the item.

- Can we publish the ebIX® Code lists as a PDF document?

Answer:

- Yes, ETC are work on using the MD generic table to generate ebIX® Code lists for publication.

Conclusion:

- CuS will not do anything more with the item.

Homework from previous meeting:

- Kees will distribute the updated “Introduction to ebIX® models” for review, preferably in “.doc” format.

Status:

- Must be reviewed in ETC before distribution. The item is on the ETC agenda and CuS will not do anything more.

- All will verify, with the national gas industry, if the Notify Metering point Characteristics document will work in the gas industry, see work plan item B) *Update Request and Notify metering point characteristics to include gas*

Status:

- The Netherlands:
 - The needed attributes is a part of the proposed new elements, see item 3
- In Norway the ebIX® documents are not used in the Gas industry
- The homework is continued for the rest of the countries

- Ove will distribute the document “Update of meter master data” from EMD together with the next agenda.

Status:

- Done, see item 8, Distribute and request change of master data Meter.

Homework:

- All, except the Netherlands and Norway, will verify, with the national gas industry, if the Notify Metering point Characteristics document will work in the gas industry, see work plan item B) *Update Request and Notify metering point characteristics to include gas*.

6 Different resolutions for different purposes in a MP

From ETC discussion:

- Belgium has a “Metered Data Resolution” (hourly, daily, weekly,,,) for each Register(/Meter)
- Belgium has also have a “Distribution Resolution” for the distribution of Metered Data from the MP to the Market participants. This can however be split per purpose, e.g. for billing and settlement, or production and consumption.

- Is the “Distribution Resolution information” a task for ebIX®?
- What Belgium needs is different “Resolutions” for different purposes related to a MP.

Belgium will make a proposal for how to handle the problem for next CuS meeting.

The item was postponed until next meeting.

Homework:

- Belgium will make a proposal for how to handle different resolutions for different purposes in a MP, i.e.:
 - Belgium has a “Metered Data Resolution” (hourly, daily, weekly,,,) for each Register(/Meter)
 - Belgium has also have a “Distribution Resolution” for the distribution of Metered Data from the MP to the Market participants. This can however be split per purpose, e.g. for billing and settlement, or production and consumption.
 - Is the “Distribution Resolution information” a task for ebIX®?
 - What Belgium needs is different “Resolutions” for different purposes related to a MP.

7 Data Type for “Scheduled Meter Reading Date”

From Atrias:

One of the attributes we have been struggling with is the “Scheduled Meter Reading Date” and the fact that it is a DateTime Type. For Smart meters we understand that it can be an exact date at which the reading will be done. So DateTime is fine as a format. For traditional meters, read with a yearly frequency, we used to have something like the Meter Reading Month, which is a month (January, February, and so on)

We thought of using the same “Scheduled Meter Reading Date” for Meter Reading Month, but then the type cannot be DateTime, but should rather be of the format xsd:gMonth. Hence our questions:

1. Is the process Notify Metering Point Characteristics also supporting the “traditional” meter types?
2. If so, where can we put the Meter Reading Month?
3. If the Meter Reading Month should go in “Scheduled Meter Reading Date”, should the type not be something else then DateTime?
4. If so, what should the type be? We do have a Date Type, a DateTime Type and a Duration Type but I have not found any trace of other date formats in CCTS. Should we make it a TextType then?

From latest ETC meeting:

The process Notify Metering Point Characteristics is supporting the “traditional” meter types. Several alternatives were discussed, such as:

- a) Using the combination of Next Meter Reading Date (always specifying the first of the month) in combination of Meter Reading Frequency with a Duration=1 month
- b) Creating a new element; Meter Reading Month
- c) Using Next Meter Reading Date for smart meters and continuously read
- d) Change Next Meter Reading Date to Next Meter Reading Period

Belgium prefer alternative b) for the profiled settled MPs and using the existing elements for continuously read smart meters. The discussion will be forwarded to CuS.

Thibaut informed that the question has been further discussed in Belgium and proposed adding two new elements; *Planned Meter Reading Day* and *Planned Meter Reading Month*. The usage is explained below:

	Attributes	Example
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		Scheduled Meter Reading Day (0..1)	Scheduled Meter Reading Month (0..1)	Frequency	
Meter types	AMR	Mandatory	N/A	Monthly	5
	Smart meter	Mandatory	N/A	Monthly	10
		Mandatory	Mandatory	Yearly	10 / April
		N/A	N/A	Bimonthly	?
	Manually read meter	N/A	Mandatory	Yearly	September
		Mandatory	N/A	Monthly	1

- Cristian informed that a Meter Data Collector in Denmark can send up to 12 meter reading dates each year
- Kees proposed to use the current element (Scheduled Meter Reading Date), but with different patterns, however this implies an update of the TT

Conclusion:

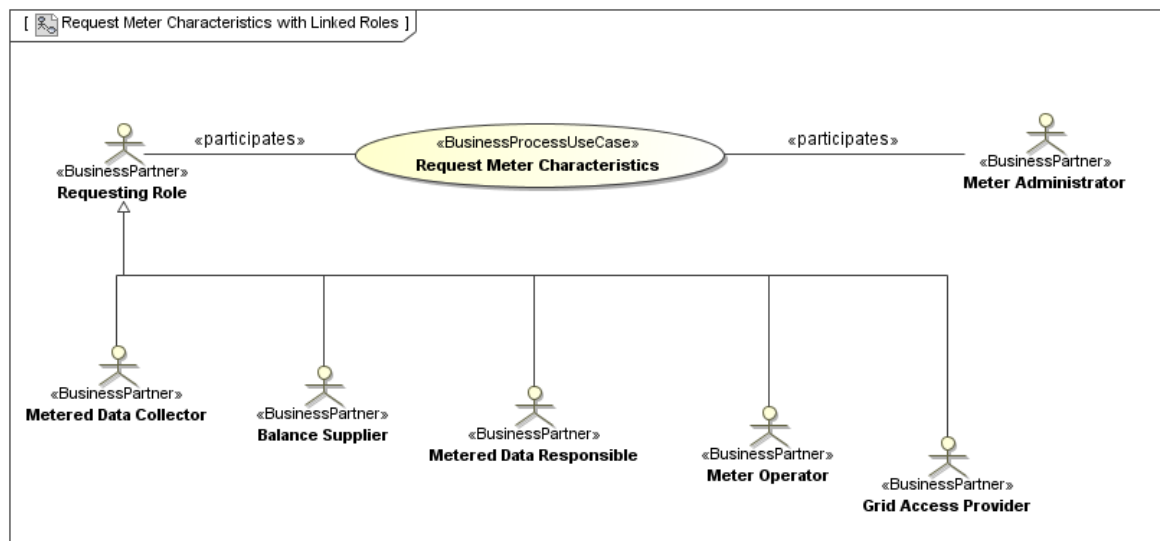
- We leave the ebIX® model “as is” and Belgium will try using different patterns as proposed by Kees.

8 Distribute and request change of master data Meter

As a start of this item, a class diagram for Notify Meter Characteristics was made. The content of the class diagram was based on the *BRS for Structure for Metered Data Requirements for Distribute Master Data Meter-Register 0.1.C* from EMD.

From related discussion:

- The responsible role for the Meter characteristics is the Meter Administrator
- The roles interested in Meter characteristics was discussed:
 - The Party Connected to Grid may be interested, but is not seen as a candidate for exchanging electronic documents
 - The Grid Access Provider (GAP) caused a discussion:
 - In Norway the GAP often looks up MP IDs via the Meter ID
 - The GAP was identified as a stakeholder from EMD, however no one remembered why



- The need for a "Communication Gateway" will be elaborated at a later stage
- The Voltage Level attribute was discussed

«Subset» «ENUM» VoltageLevelCode
E04{codeName = "High voltage"}
E05{codeName = "Medium voltage"}
E06{codeName = "Low voltage"}
E03{codeName = "Maximum voltage"}
E07{codeName = "High voltage / transformation"}
E08{codeName = "Medium voltage / transformation"}
E09{codeName = "Low voltage / transformation"}

- Boštjan informed that the “/transformation” means that the meter is on the “customer side” of a Transformer and that the meter readings should be multiplied with a transformation-loss-factor (e.g. 1,03)
- Slovenia and Belgium are using the three first codes, while Germany uses all
- The “/Transformation” could be sent in a separate element “Transformation factor”, where a “Transformation factor” = 1 means no transformation factor used

<<Business Entity>> Notify Meter Characteristics	The information set sent by the Meter Administrator to the requesting or linked roles of a Meter when responding or notifying Meter Characteristics.
Validity Start Date	The date when the content of this business document becomes or became valid.
Sector	The business sector, such as Electricity or Gas
Snap-shot Date	The date or date/time when this set of Meter Characteristics was derived from the Meter Administration
<<Business Entity>> Meter	
Identification	The unique identification of the Meter
Type	A code representing the type of Meter
Voltage Level	The Voltage level where the Meter is operated
Meter Operator ID	The identification of the Meter Operator, which is a party responsible for installing, maintaining, testing, certifying and decommissioning physical meters.
Quality Class	A code identifying the type of quality class a Meter belongs to
<<Business Entity>> Register	
Identification	The unique identification of the Register (within this Meter)
Product	A code specifying a type of product for the quantity in question.
Direction	The direction metered, such as production or consumption
Constant	The multiplication factor used to calculate a metric volume or meter stand for a meter reading.
Number of Digits	The number of digits in a Register, without decimals
Meter Time Frame	A code specifying the tariff time frame for this Register

Field	<< Business Entity >>	A physical entity connecting a Grid to the Installation (belonging to a Party Connected to Grid, or the Grid). The Field may contain objects, such as Transformers, Meters and Fuses
Identification		The unique identification of the Field, within the Connection
Communication with Meter		
Type		The means of communication with a Meter
Electronic Protocol		The protocol used for communication with a Meter
Electronic Medium		The medium for communication with a Meter

We will make a new BRS for request and notify Meter information:

- The Requesting roles in the Request and the Affected roles in a notification pattern, are assumed to be the same
- There will in the first draft be separate class diagrams for Electricity and Gas
- In the request we assume that the requested object can be either Meter ID (although it was noted that ID's of meters from factory are not always unique) or Metering Point ID.

Homework:

- Torleif volunteered to:
 - Verify that the hierarchy of Metering Point, Field, Meter and Register is in line with the CIM
 - Verify that definitions and codes are in line with IEC definitions
- All will verify that the class diagram and related definitions fits with national processes
- Ove will make a first draft of a BRS

9 Cancellations

Emma had as homework from previous meeting to review the ebIX® Cancellation document and propose a priority at the next CuS meeting. Emma has reviewed the document and she thinks overall the content is still OK although she has a couple of questions:

1. *General:* Who, other than MPA can be the Administrating role?
2. *3.1.2 under Performance goals:* is it really true that any involved role can cancel the hole or part of a business process? Even a part that the party is not directly involved in?
3. *3.2.1:* an arrow from MPA to Initiating role of business process for notification of cancelation is missing
4. We have done changes in the other documents that have not been done here. The question is, does that alone warrant an update or should we just put it on the To do-list for the next version or revision of the document?

For example:

1. Administrating role, Initiating role and Affected role I think we need to update
2. UseCase diagrams should be updated to the "new" standard
3. UseCase descriptions should be updated to the "new" standard
4. Class diagrams should be reviewed and updated to the "new" standard
5. Activity diagrams should be reviewed and updated to the "new" standard
6. Sequence diagrams should be reviewed and updated to the "new" standard

Due to lack of time and the fact that Emma could not participate, the item was postponed

10 Update Request and Notify metering point characteristics to include gas

The update of Request and Notify metering point characteristics to include gas is awaiting homework, see item 5 above.

11 Change to/from Supplier of last resort

The intention with this item is making guidelines (high level requirements, i.e. consequences for data exchange) for Change to/from Supplier of last resort:

- According to earlier CuS discussions:
 - Exist in Norway, Germany, Belgium and Switzerland
 - Does not exist in Austria, Sweden, Netherlands and Denmark.
 - A Balance supplier appointed by the authorities (e.g. the regulator) to supply energy under certain conditions to consumers rejected by other Balance suppliers.
 - And its relation to Change to/from Default supplier, i.e.:
 - Does not exist in Austria, Norway, Netherlands and Belgium.
 - Exist in Sweden, Germany and Denmark.
 - A Balance supplier that supplies MPs within a Metering Grid Area (chosen by the MPA) when the customer has not chosen another BS
- Boštjan informed that the Slovenian way of handling a bankruptcy is by sending a notification to the Customer, informing him of a move to the Supplier of Last Resort, and asking him to choose a new Supplier. The DSO is the Supplier of Last Resort in Slovenia.
- The Norwegian process is similar to the Slovenian:
 - The Norwegian legislation says that during the first 6 weeks of the DSO being the Supplier of Last Resort, the price must maximum be the Spot price + a small fee. Thereafter the price may be increased to give the Customer a reason to choose a normal Supplier.
- In Denmark there is one Supplier of Last Resort for each MGA, which has an agreement for a special price for “Customers of Last Resort”
- The Belgian process is similar to the Norwegian and Slovenian processes, however a bit different in the three Belgian regions, e.g. in Wallonia a budget meter is placed at non-paying Customers, in Brussels Power limiters are used as the first step.
- In Germany and Denmark the Default Supplier and the Supplier of Last Resort is the same.
 - In Germany the combined supplier is the largest Supplier in a MGA and is “chosen” every third year.
- In case of bankruptcy:
 - The Customers are moved to the Supplier of Last Resort in Germany, Norway
 - In the Netherlands, there will be a “Quarantine period” for ten days, thereafter the Customers will be split over the other suppliers in the Netherlands, based on how many MPs the Suppliers have
- What can ebIX[®] do to harmonise these processes?
 - Ove proposed to make a “Unrequested Change of Supplier document”
 - Kees proposed a sort of “list” (electronic document) that can be sent from the DSO to the Supplier, informing the Supplier that he should start a normal Change of Supplier process
- It seems that the processes differs too much between the countries to be harmonised, however it could be possible to harmonise the content of relevant documents .

Conclusions:

- The Netherlands will present a proposal for a new process; sending a “list” that can be sent from the DSO to the Supplier, informing the Supplier that he should start a normal Change of Supplier process, at the next CuS meeting.
- We will at the next CuS meeting make a first draft of a separate document describing Change to/from Supplier of last resort and/or Default Supplier.

12 Update of the ebIX® web-site

Due to lack of time the item was postponed.

13 Meeting schedule

Tuesday 20nd and Wednesday 21st of May, Denmark

Tuesday 2nd and Wednesday 3rd of September in Belgium

Tuesday 18th and Wednesday 19th of November in Slovenia.

14 AOB

No items.

Appendix A CuS WORK PLAN

#	Activity	Due date
A)	Add definitions of data elements in 10 Business Requirements View documents <ol style="list-style-type: none"> 1. Change of supplier, including all sub-processes 2. End of supply 3. Change of balance responsible party 4. Change of transport responsible party 5. Change of metered data responsible, including 6. End of metered data responsible 7. Customer move, both move in and move out 8. Request metering point characteristics 9. Notify metering point characteristics 10. Query metering point data for identification 	<i>CuS meeting October 2013</i>
B)	Update Request and Notify metering point characteristics to include gas.	<i>CuS meeting October 2013</i>
C)	Distribute and request change master data Meter Including: <ul style="list-style-type: none"> • Responsibility and definition for/of Metering Method, Settlement Method and MP Reading Characteristics • Distinction of data elements used in different processes, such as in Meter and Metering Point master data 	<i>CuS meeting October 2013</i>
D)	Request change of attributes connected to a MP	<i>To be decided</i>
E)	Guidelines (high level requirements, i.e. consequences for data exchange) for Change to/from Supplier of last resort <ul style="list-style-type: none"> • Exist in Norway, Germany, Belgium and Switzerland • Does not exist in Austria, Sweden, Netherlands and Denmark. • A Balance supplier appointed by the authorities (e.g. the regulator) to supply energy under certain conditions to consumers rejected by other Balance suppliers. • And its relation to Change to/from Default supplier, i.e.: <ul style="list-style-type: none"> ○ Does not exist in Austria, Norway, Netherlands and Belgium. ○ Exist in Sweden, Germany and Denmark. ○ A Balance supplier that supplies MPs within a Metering Grid Area (chosen by the MPA) when the customer has not chosen another BS 	<i>CuS meeting December 2013</i>
F)	Cancellation processes for all processes that can be cancelled	<i>A priority will be agreed at the meeting October 2013</i>
G)	Efficient data alignment, including the possibility to request historical and/or future master data.	<i>To be decided</i>
H)	Class diagram for Installation information (inclusive "premise id" and "location id") and Exchange of master data for "Measuring field". This may require a recast of UTILMD.	<i>To be decided</i>
I)	How to handle the different attributes related to the Consumer, such as consumer contact information (e.g. address and invoice address).	<i>To be decided</i>
J)	Ordering of chargeable services	<i>To be decided</i>
K)	Update the UseCases in BRV for Change of Supplier after review together with Eurelectric (if possible).	<i>Postponed</i>
L)	The BusinessDomainView in the UMM Foundation Module captures all of the business processes which may be of interest for the domain. In order to enable	<i>To be decided</i>

	users to readily identify business processes, these business processes are classified into business areas. This classification is done by creating business areas and process areas. I.e. Add a structure of Business Processes and Business Areas.	
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Appendix B MEMBER LIST

Members:

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CC: It is expected that cc receivers are reading the CuS minutes and actively responds to these when they have comments to them. It is further expected that the CuS information is actively used in the national data exchange standardisation work.

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Appendix C COMMENTS TO CuS BRVs FROM GERRIT

C.1 ebIX review BRV docs

A total of ten UMM BRV documents have been reviewed. All ten documents looks OK from a UMM point of view. In document *ebIX[®] Introduction to Business Requirements and Information Models* is stated that business people is intended audience for the business requirements. For this audience, please consider to:

1. Do not show the stereotypes in the diagrams, the readability for business people will be better without stereotypes;

Discussion:

- Kees would like to ask nationally if it is OK to remove (don't show) the stereotypes
- Ove informed that the Nordic industry already has decided to remove the stereotypes from Nordic BRV documents
- Thibaut showed some example of Belgian requirements, where the stereotypes are shown

Conclusion:

- Everyone were asked to verify nationally:
 - If stereotypes should be removed from artefacts and or tables in the BRV documents
 - If enumerations should be removed from class diagrams or moved to a separate table or similar
2. Add descriptive along every diagram;
 3. Add descriptive information into every diagram.

Discussion:

- Gerrit would like to see a short text connected to every artefact shown in a BRS, i.e. explaining what is shown in the artefact
- Thibaut showed examples of Belgian requirements, where there always are text explain the artefacts.
- Such text needs a to be made (reviewed) in the CuS group and it will necessarily take some time before text can be added to all artefacts
- Kees would like to see also this topic discussed in national groups

Conclusion:

- Everyone were asked to verify nationally if there is a need for added text in connection to, or within, the artefacts in the BRSs and if yes, what the content of text could be

The current versions of the UMM BRV documents do look (to) technical. Please consider the intended audience!

General remark is the use UMM2 Base instead of UMM2 Foundation. UMM2 Base indeed covers the fundamental UMM principles. However, the UMM2 Foundation offers the sub-view BusinessDomainView in order the classify business processes into business categories. UN/CEFACT recommends using this classification, but it is not mandatory.


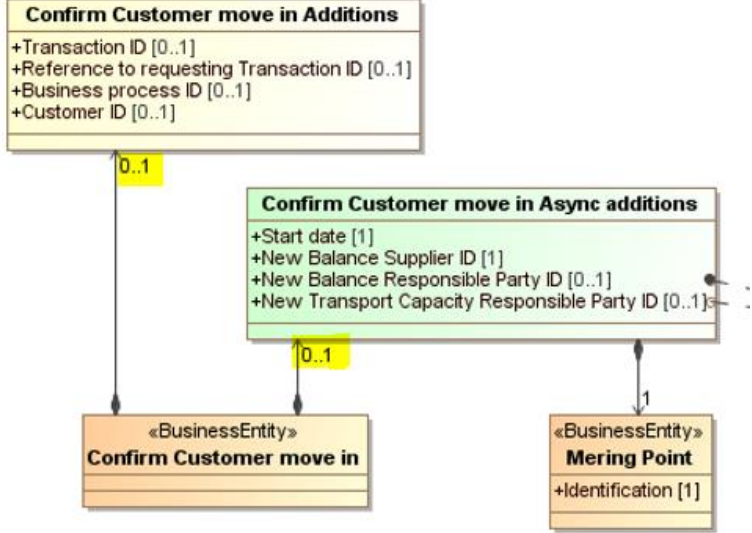
Discussion:

- We use the Business Domain View, according to UMM
- We don't use the "standard Business Categories"

Conclusion:

- The topic was added to the CuS Work plan in Appendix A
- ETC will be asked to see if Business Categories should be added

C.2 Document ebIX BRV for Customer Move v3r2A 20130918

Remark ID	Remark
1.	<p>BusinessEntity <i>Mering Point</i>, is that a typo? To be changed into <i>Metering Point</i>?</p>  <p>The diagram shows a class box for «BusinessEntity» Mering Point. It has a single attribute: +Identification [1]. An arrow points to the class name.</p>
2.	<p>The 0..1 cardinality suggest that the BE can be empty. Is that the case? BE <i>Confirm Customer move in</i> is the confirmation on an earlier <i>Request move in</i>. According to the state diagram the <i>Confirm Customer move in</i> will be returned when the request is accepted. In that case the BE cannot be empty.</p>  <p>The diagram shows three classes: <ul style="list-style-type: none"> Confirm Customer move in Additions (yellow box): +Transaction ID [0..1], +Reference to requesting Transaction ID [0..1], +Business process ID [0..1], +Customer ID [0..1]. Confirm Customer move in Async additions (green box): +Start date [1], +New Balance Supplier ID [1], +New Balance Responsible Party ID [0..1], +New Transport Capacity Responsible Party ID [0..1]. «BusinessEntity» Confirm Customer move in (orange box): No attributes shown. «BusinessEntity» Mering Point (orange box): +Identification [1]. Relationships: <ul style="list-style-type: none"> A line connects Confirm Customer move in Additions to Confirm Customer move in with a cardinality of 0..1 at the additions end. A line connects Confirm Customer move in Async additions to Confirm Customer move in with a cardinality of 0..1 at the additions end. A line connects Confirm Customer move in Async additions to Mering Point with a cardinality of 1 at the Mering Point end. </p>

Conclusion:

- Ove will correct the “Mering Point” in the class diagrams
- The cardinality seems to be right. E.g. When using a synchronous WS, a Request Customer Move In can be answered by an empty Confirm Customer Move IN or an empty Reject Customer Move IN

C.3 Document ebIX Business Requirements for Change of Balance Responsible Party Draft for v3r2A 20130917

UMM bRequirementsV for *Change of Balance Responsible Party*. Remarks similar to the first document.

C.4 Document ebIX Business Requirements for Change of Metered Data Responsible Draft for v3r2A 20130917

UMM bRequirementsV for *Change of Metered Data Responsible*. Remarks similar to the first document.

C.5 Document ebIX Business Requirements for Change of supplier Draft v3r2A 20130917

UMM bRequirementsV for *Change of Supplier*. Remark 2 only.

C.6 Document ebIX Business Requirements for Change of Transport Capacity Responsible Draft for v3r2A 20130918

UMM bRequirementsV for *Change of Transport Capacity Responsible Party*. Remarks similar to the first document.

C.7 Document ebIX Business Requirements for End of Metered Data Responsible Draft for v3r2A 20130918

UMM bRequirementsV for *End of Metered Data Responsible*. Remarks similar to the first document.

C.8 Document ebIX Business Requirements for End of supply Draft for v3r2A 20130921

UMM bRequirementsV for *End of Supply*. Remarks similar to the first document.

C.9 Document ebIX Business Requirements for Notify MP Characteristics - Draft for v3r2A 20130921

UMM bRequirementsV for *Notify Metering Point Characteristics*. Remark 2 only.

C.10 Document ebIX Business Requirements for Request MP Characteristics Draft for v3r2A 20130922

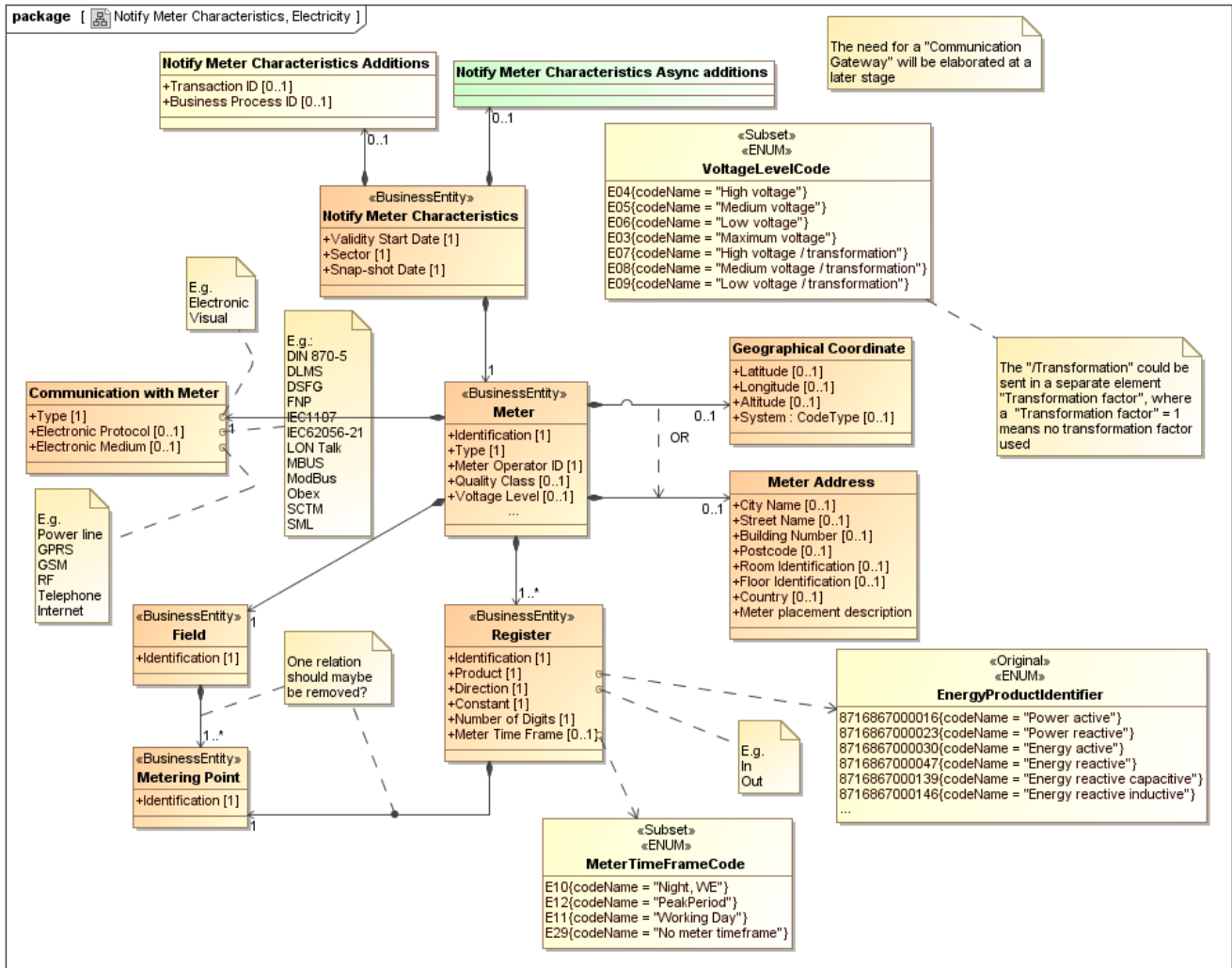
UMM bRequirementsV for *Request Metering Point Characteristics*. Remark 2 only.

C.11 Document ebIX Business Requirements for Upfront request for Metering Point Characteristics Draft for v3r2A 20130923

UMM bRequirementsV for *Upfront Request for Metering Point Characteristics*. Remark 2 only.

Appendix D CLASS DIAGRAMS FOR METER CHARACTERISTICS

D.1 Notify Meter Characteristics, Electricity



D.2 Notify Meter Characteristics, Gas

