Minutes CuS meeting, February 1st and 2nd, 2017	ebIX	European forem for energy
		Business Information eXchange
February 17th, 2017		CuS, Structuring of the energy market, phase V

Minutes – CuS project meeting

Date: Wednesday and Thursday February 1st and 2nd, 2017
Time: 09:00 – 17:30 and 9:00 – 16:00
Place: Stockholm
Participants: Boštjan, SI
                Emma, SE
                Gerrit, NL
                Grazyna, PL
                Joachim, DE
                Kees, NL
                Minna, FI
                Ove, NO
                Preben, DK
                Stefan, BE
                Torleif, NO
Appendix A   CuS Work plan
Appendix B   CuS proposals to ETC for update of the ebIX® Business Information Model
Attachments: None

1   Approval of agenda

The agenda was approved with the following additions:

- Versioning of ebIX® model and xml schemas, see item 16.1 under AOB;
- Privacy data protection, see item 16.2 under AOB.

2   Approval of minutes from previous meeting

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

- The second conclusion from item 10 (BRS for master data for Areas) was changed to "We do the electricity before adding gas to the BRS".

## 3   Status for publication of BRS for Alignment of Metering Configuration Characteristics

Ove had as action from previous meeting added an overall Business process UseCase to the "Alignment of Metering Configuration Characteristics BRS" (and the "Alignment of Customer Characteristics BRS"). Ove noted that the overall Business process UseCase for the alignment BRSs cannot have a related activity diagram (business process), as for instance the Change of supplier BRS has. According to the rules of UMM/UML, there can only be

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one starting point in a business process activity diagram. In the alignment BRSs, there are always two processes; a Notify process and a Request process. The Notify process is always initiated by the responsible role, while the Request process is initiated by the non-responsible (ancillary) role.

To be more in line with other BRSs, Ove linked the business process activity diagram for Request metering configuration characteristics with the business process activity diagram for Notify metering configuration characteristics. A similar principle will be used also for other alignment BRSs.

In addition, Ove had added an enumeration "Incrementation Type" with two literals; "Cumulative" and "non-cumulative", which was changed to Indicator Type (Boolean) instead.

There was a discussion related to communication protocol and carrier from the Meter Gateway:
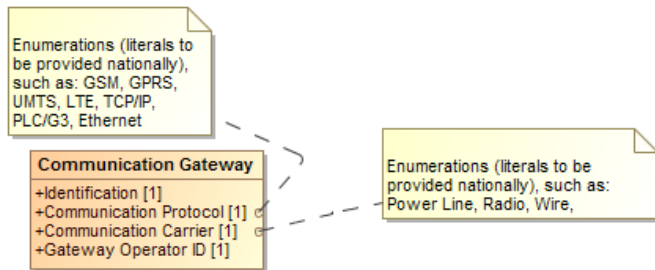
With the following preliminary proposal from Boštjan:

- *Power line communication*
  - o PLC,
  - o PLC G3…
- *Wireles comunication*
  - o GSM,
  - o GPRS,
  - o UMTS,
  - o LTE(G3),
  - o Wlan,
  - o Wimax,
  - o UKW
  - o FM radio…
- *Telecomunication line*
  - o *Internet,*
  - o *LAN,*
  - o *Telephone*
  - o *Optic…*

We still need to await addition of the new codes from ETC, see Appendix B / B.1:

Actions:

- Ove will add an overall Business process UseCase to the Alignment of Area Characteristics BRS and the Alignment of MP Characteristics BRS;
- Boštjan will find proposals for communication protocol and carrier;
- ETC will be asked to add new codes to the ebIX® model, see Appendix B / B.1

4   MR to HRM for Gateway Operator and Gateway

The MR (Maintenance Request) to the HRM (Harmonised Role Model) for Gateway Operator and Gateway was reviewed and modified:

- A Gateway Administrator was added with the following definition:

    A party responsible for keeping a register with characteristics, functions and linked parties for Gateways.

- The definition of Gateway Operator was changed to:

    A party responsible for installing, testing, configuring, maintaining and decommissioning of communication gateway(s).

- The definition of Gateway was changed to:

    A communication device or service to exchange data between one or more physical meters and relevant market roles. It may have additional intelligent functions related to the exchange and/or the data.

    Examples of intelligent functions:

    Connection/disconnection, changing resolutions, handling time of use, multiplication of correction factors and other algorithms.

The MR will be forwarded to the HG (ebIX®, EFET and ENTSO-E Harmonisation Group), after approval in ETC.

The MR can be found at: CuS documents for review.

Action:

- Ove will forward the MR to ETC, before submitting it to the HG.

5   Recommendations for handling several Balance Suppliers in one or more Metering Point(s)

Gerrit and Ove had as actions from previous meeting drafted a document "Recommendations for handling Prosumers", renamed from the original name "Recommendations for handling several Balance Suppliers in one or more Metering Point(s)". The document was reviewed with the following comments:

- There was a longer discussion related to the usage of the term Connection Point:
    o The Connection Point is used to explain the physical installation;
    o The Connection Point is not used in the class diagrams;
    o It was discussed to use the term Usage Point from CIM, or Delivery Point or just Connection, instead of Connection Point, however ending with the proposal of only referencing the "physical world" in the introduction.
- There was a discussion about using the term Accounting Point instead of Metering Point.

Conclusion:

- For the time being we keep the term Metering Point in the CuS BRSs.

Action:

- Gerrit and Ove will add some text to the introduction with three separate paragraphs; the first describing the physical world, the second describing the administrative world and the third describing the linking. In the rest of the document the connection point (and similar terms) should be removed.

6   BRS for Alignment of Customer Characteristics

Ove had as actions from previous meeting cleaned up the "Alignment of Customer Characteristics BRS" and added an overall Business process UseCase.

ETC was asked at the previous meeting to update some code definitions and add new codes to the ebIX® model, however ETC has not dealt with that due to lack of time in their meeting, see Appendix B/B.2.

The proposal from earlier CuS meetings, related to Customer Characteristics being a generalisation of the Party characteristics was reviewed with the conclusions that we remove the inheritance from Party characteristics to Customer characteristics in the BRS.

latest working draft will be found at: CuS documents for review.

Action:

   a) ETC is asked to add and update enumerations according to Appendix B/B.2:
   b) Ove will go through all activity diagrams and make sure that the end ("success") is in the same swim lane as the start.

7   BRS for Request Change of MP Characteristics

Ove had as action from previous meeting cleaned up the BRS, i.e. almost all attributes from the Notify MP characteristics can be updated, except for MP Parties, Administrative Status and Snap-Shot Date.

Requests to ETC for new and updated codes can be found in Appendix B/B.3.

The latest working draft will be found at: CuS documents for review.

The item was postponed, due to lack of time.

8   BRS for master data for Combined Grid and Supply Billing (if input from EMD is received)

EMD has started work, but not yet discussed master data for Combined Grid and Supply Billing. Hence the item will be removed from the agenda until a request from EMD turns up.

9   Interfering processes

Belgium, Finland, Germany, Norway and the Netherlands have filled in the table.

Action:

   • The rest of the CuS members are asked to fill in their national rules for missing processes in the document "CuS interfering processes". The document can be downloaded from CuS documents for review (in the Intersecting processes directory).
   • Ove will merge the Finish and Norwegian rules into the common document.

10   BRS for "Request change grid responsibility"

Ove had as action from previous meeting updated the BRS, including rename of the BRS to "Request change grid responsibility" and addition of ARS and CVA.

Action:

- Requests to ETC for new and updated codes can be found in Appendix B/B.4;
- Ove will add the class diagram for "Notify change grid responsibility" to the BRS.

11 BRS for Alignment of Area Characteristics

Ove had as action from previous meeting made a first draft of a BRS for Alignment of area characteristics. The BRS is split in three different processes; MGA characteristics, MBA-MGA relations and MGA-MGA relations.

The first draft can be found at: CuS documents for review.

The item was postponed, due to lack of time.

12 BRS for change of BRP in an Area (bulk change of BRB)

Ove had as action from previous meeting made a first draft of a BRS for Bulk change of BRP.

The first draft can be found at: CuS documents for review.

The item was postponed, due to lack of time.

13 Lessons learned

The item was postponed, due to lack of time.

14 Status for addition of Scheme Type attribute to the ebIX® model

Handled under item 6 above.

15 Meeting schedule

- Tuesday and Wednesday March 21st 09:00 - 18:00 and 9:00 - 16:00, Slovene Energy Chamber in Ljubljana.
- Tuesday and Wednesday May 30th and 31st, Sweden, Austria or Netherlands

16 AOB

16.1 Versioning of ebIX® model and xml schemas

ETC askes CuS to discuss how versioning should be handled – CuS and EMD are asked to participate at a "kick of" meeting, the first day of the next ETC meeting, April 25th at TenneT's offices in Arnhem, the Netherlands, probably with a telco in February.

If anyone want to participate, please contact Ove.

16.2 Privacy data protection

Gerrit informed that the new General Data Protection Regulation (GDPR) from EU will be valid from May 25th 2018. In the Netherlands a consequence is that the exchange of master data has been limited to only contain the master data the recipient needs to fulfil its responsibilities and not as earlier; all master data distributed to all.

Action:

- Gerrit will ask ebIX® Forum for a priority for privacy data protection

Appendix A   CuS Work plan

#	Activity	Priority	Start	End
A)	Master data for Customer parties, including how to handle the different attributes related to the Consumer, such as consumer contact information (e.g. address and invoice address).	1st	Q4/2014	Q1/2017
B)	Master data for energy industry parties, such as BRPs and BSs	2nd	Q4/2014	Q4/2017
C)	Request change of attributes connected to a MP, such as Closing and Reopening MPs, Change of Metering Method and Change of time frames	3rd	Q1/2015	Q1/2017
D)	Combined grid and supply billing (invoicing), including MD for products, such as; grid fees, grid subscriptions, …	4th	Q2/2015	Q2/2018
E)	Interfering processes – a matrix of processes with priorities, when a given process is interfered by another, such as when a customer move comes in the middle of a change of supplier process.	5th	Q2/2015	Q2/2017
F)	"Switch of grid", for instance a part of a Metering Grid Area (MGA), such as a village, that is transferred from one GAP and MGA to another	6th	Q3/2015	Q2/2017
G)	MPs having multiple parties with similar roles, e.g. a MP with different BRPs for production and consumption	7th	Q4/2015	Q4/2017
H)	Master data for domains, such as which MGAs that belongs to a MBA and related characteristics of these domains (can be changed after harmonisation of HRM and new domains from the network codes from ENTSO-E)	8th	Q4/2016	Q3/2017
I)	Change of BRP in Metering Grid Area, "Price Area" or country (not at MP level) (Proposed by DK), i.e. a "bulk change of BRP (and/or BS?)"	9th	Q4/2016	Q4/2017
J)	"Life cycle of a MP", including how technical events interact with administrative processes and responsibilities	10th	Q1/2017	Q2/2017
K)	Efficient data alignment, including the possibility to request historical and/or future master data.	11th	Q1/2017	TBD
L)	The possible role of a datahub in the processes (Proposed by DK) • Seen from the supplier side • Seen from the DSO side • Seen from the metering side	12th	Q3/2017	TBD

	When adding a datahub to a market the datahub will replace the DSOs, to a large extend, i.e. the MPA will be the datahub. Among others, the proposal includes processes between the GAP and the MPA.			
M)	Request for services. The item concerns chargeable requests from the BS to the DSO for changes to a MP or a Meter, such as: • Request for metered data	13th	Q4/2017	TBD
N)	QA of the CuS model and consistency of the CuS and EMD models	Awaiting EMD part of the combined billing process	TBD	TBD
O)	New processes for "demand/response", which may add new tasks for the MDA	Awaiting EMD survey and ebIX® Forum decision	TBD	TBD
P)	Review of published BRSs: • The MP parties should be linked to the MP instead of the "document", to be in line with BIM and CIM • The discussion must include bulk switch, where we will have one party with multiple MPs	TBD	TBD	TBD
Q)	Handling of "Installation Metering Points" and/or fields (may be related to the item above)	TBD	TBD	TBD
R)	New (enhanced) processes for labelling	TBD	TBD	TBD

Appendix B CuS proposals to ETC for update of the ebIX® Business Information Model

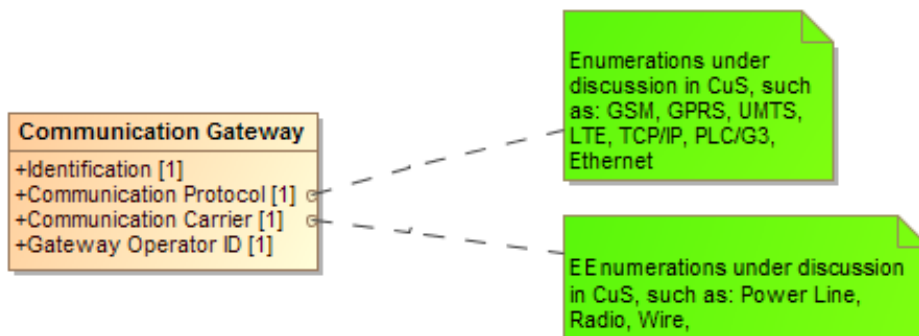## B.1 BRS for Alignment of Metering Configuration Characteristics

a) Add a new code "m^3 to Energy" to the Conversion Factor Type Code;
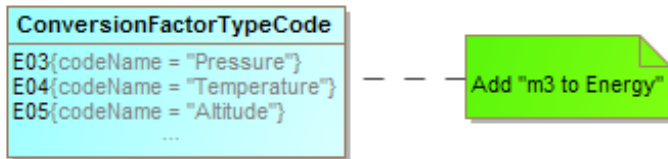
b) Add a new enumeration Meter Type with the following literals; "Electronic", "Analog" and "Advanced (smart)":
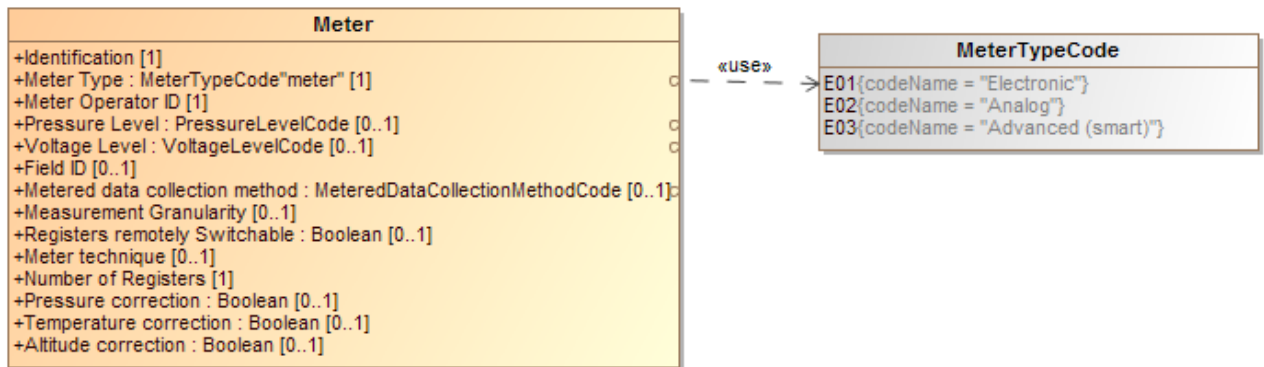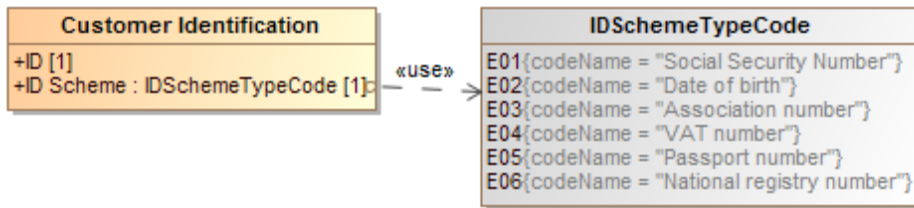

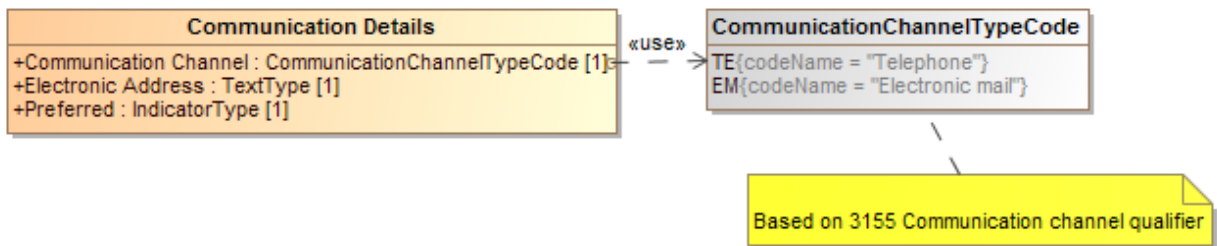c) Add new enumerations for Communication Protocol and Communication Carrier, when there is a proposal from CuS:

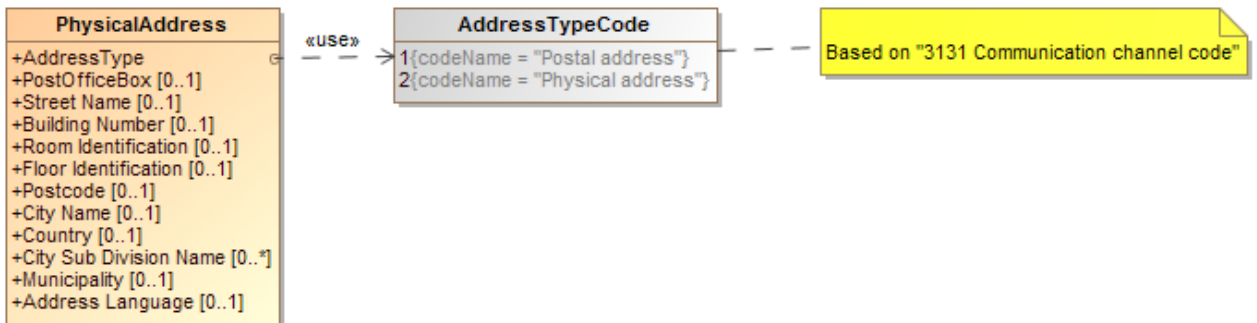## B.2   BRS for Alignment of Customer Characteristics

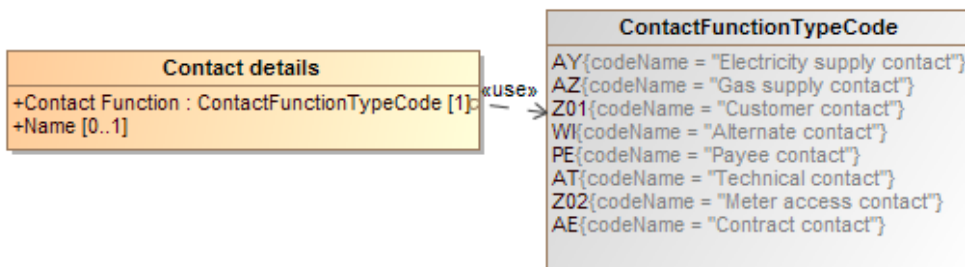a)   Add the attribute "ID Scheme Type" to the ebIX® model:

Customer Identification
+ID [1]
+ID Scheme : IDSchemeTypeCode [1]

«use»

IDSchemeTypeCode
E01{codeName = "Social Security Number"}
E02{codeName = "Date of birth"}
E03{codeName = "Association number"}
E04{codeName = "VAT number"}
E05{codeName = "Passport number"}
E06{codeName = "National registry number"}

b)   Rename Document Name Code "**E21** Master Data Consumer" to "**E21** Master Data Customer";

c)   Rename Business Reason Code "**E34** Update master data consumer" to "**E21** Update master data Customer";

d)   Add a Communication Channel Type:

Communication Details
+Communication Channel : CommunicationChannelTypeCode [1]
+Electronic Address : TextType [1]
+Preferred : IndicatorType [1]

«use»

CommunicationChannelTypeCode
TE{codeName = "Telephone"}
EM{codeName = "Electronic mail"}

Based on 3155 Communication channel qualifier

e)   Add an Address Type, based on UN/CEFACT 3131 Communication Channel Code:

PhysicalAddress
+AddressType
+PostOfficeBox [0..1]
+Street Name [0..1]
+Building Number [0..1]
+Room Identification [0..1]
+Floor Identification [0..1]
+Postcode [0..1]
+City Name [0..1]
+Country [0..1]
+City Sub Division Name [0..*]
+Municipality [0..1]
+Address Language [0..1]

«use»

AddressTypeCode
1{codeName = "Postal address"}
2{codeName = "Physical address"}

Based on "3131 Communication channel code"

f)   Add a new enumeration "Contact function code" based on "3139 Contact function code":

Contact details
+Contact Function : ContactFunctionTypeCode [1]
+Name [0..1]

«use»

ContactFunctionTypeCode
AY{codeName = "Electricity supply contact"}
AZ{codeName = "Gas supply contact"}
Z01{codeName = "Customer contact"}
WI{codeName = "Alternate contact"}
PE{codeName = "Payee contact"}
AT{codeName = "Technical contact"}
Z02{codeName = "Meter access contact"}
AE{codeName = "Contract contact"}

CuS requirements	3139 Contact function				
	code	name	definition	CuS comments	ETC comments
Main contact	AY	Electricity supply contact	Department/person to contact for matters regarding electricity supply		
	AZ	Gas supply contact	Department/person to contact for matters regarding gas supply		
	~~BF~~	~~Service contact~~	~~Department/person to be contacted in service matters.~~		possible alternatives for "Main contact"
	~~IC~~	~~Information contact~~	~~Department/person to contact for questions regarding transactions.~~		
	Z01	**Customer contact**	The main department/person to contact at the customer		UN/CEFACT will be asked for a new code
Neighbour, House keeper (caretaker)	**WI**	**Alternate contact**	Alternate department or person to contact	CuS want one combined code	
	~~AV~~	~~Maintenance contact~~	~~Department/person to contact for matters regarding maintenance~~		
Invoice contact	**PE**	**Payee contact**	Department/employee to be contacted at the payee		
Technical	**AT**	**Technical contact**	Department/person to contact for matters regarding technical issues.		
Meter reading	~~AQ~~	~~Quantity surveyor contact~~	~~Department/person to contact for matters regarding quantity surveying~~	CuS wants a new UN/ CEFACT code (see below)	
	Z02	**Meter access contact**	Department/person to contact for matters regarding meter reading, including access to the Meter		UN/CEFACT will be asked for a new code
Contract contact	**AE**	**Contract contact**	Department/person to contact for matters regarding contracts	NEW	

B.3   BRS for Request Change of MP Characteristics

a) Remove "indirect" and add "MP Characteristics" to the Document Type codes **E79**, e.g.

"**E79,** Request change of MP characteristics";

or rename "**E58**, Request to change metering point attributes" (Responsible role should be GAP (DDM))

b) Remove "indirect" and add "MP Characteristics" to the Document Type codes **E80**, e.g.

"**E80,** Response request change of MP characteristics";

or rename "**E59**, Confirmation/rejection of change metering point attributes" (Responsible role should be GAP (DDM))

c) Add a new Document Name code for Request update MP Characteristics, e.g.

"**E81**, Request update of MP characteristics";

d) Add a new Document Name code for Response update MP Characteristics, e.g.

"**E82**, Response request update of MP characteristics";

e) In general, verify Document Name codes and Business Reason codes for Request change of MP characteristics.

B.4   BRS for Request Change grid responsibility

a) ETC is asked to find Document Name codes and Business Reason codes for "Request change grid responsibility";