

Minutes CuS meeting, April 8th and 9th, 2015	 European forum for energy Business Information eXchange
May 6 th , 2015	CuS, Structuring of the energy market, phase V

Minutes – CuS project meeting

Date: Wednesday and Thursday April 8th and 9th, 2015
Time: 09:00 – 18:00 and 9:00 – 16:00
Place: Dortmund, Germany
Participants: Christian Odgaard, Energinet.dk
Gerrit Fokkema (Convenor), EDSN, NL
Joachim (Joe) Schlegel, RWE, DE
Kees Sparreboom, TenneT, NL
Ove Nesvik (Secretary), EdiSys, NO
Preben Høj Larsen, Energinet.dk
Waldemar Lonczak, Energa-Operator SA, PL

Appendix A Party characteristics models
Appendix B Draft sequence diagram for combined billing
Appendix C CuS Work plan
Appendix D Member list
Appendix E Change of MP attributes

1 Approval of agenda

The agenda was approved.

Gerrit informed that he is about to change his work within ESDN and that he probably will have to withdraw as convenor of CuS after the job change (ultimately by the end of the year). I.e. CuS will have to find a new convenor.

2 Minutes from previous meeting

The minutes from previous meeting were approved.

3 Resolve matters arising after ebIX® Forum meeting, March 4th and 5th 2015

The decisions and actions from latest ebIX® Forum meeting was reviewed:

Decision at ebIX® Forum meeting:

- The process of billing grid cost in a supplier centric model will be lead CuS, in cooperation with EMD related to metered data.

Conclusion at CuS meeting:

- See item 13

Action item 7 from ebIX® Forum meeting:

- CuS and EMD will make inventories of relevant downstream processes (both the ones currently modelled and missing processes).

Action from CuS meeting:

- Ove will make list with processes and a short description when needed, based on the current BRs and the CuS Work plan.
- All are asked to make comments to the list before next CuS meeting.

Action item 14 from ebIX® Forum meeting:

- EMD is asked to make a survey of European initiatives, national usage and interest related to Smart grid developments, including new initiatives from CuS.

Action from CuS meeting:

- Ove will forward the list of new initiatives from CuS to EMD, where the bold items are regarded as relevant for Smart Grid:
 - **MPs having multiple parties with similar roles, e.g. a MP with different BRPs for production and consumption**
 - **Handling of “Installation Metering Points” and/or fields (may be related to the item above)**
 - “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
 - Master data for domains, such as which MGAs that belongs to a MBA and related characteristics of these domains
 - **New processes for “demand/response”, which may add new tasks for the MDA**
 - Combined switch documents and related customer master data
 - Master data for parties, both for the actors in the energy industry, such as BRPs and BSs, and the PCG
 - “Life cycle of a MP”, including how technical events interact with administrative processes
 - **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”**
 - **New (enhanced) processes for labelling**

Action item 15 from ebIX® Forum meeting:

- Jan will make a list over rejected items from the HG and send the list to CuS and EMD for review (to see if they should be reopened).

Conclusion from CuS meeting:

- Postponed until we receive something from Jan.

For information, the following proposals for new CuS items was presented to ebIX® Forum before added to the CuS work item list:

1. MPs having multiple parties with similar roles, e.g. a MP with different BRPs for production and consumption;
2. Handling of “Installation Metering Points” and/or fields (may be related to the item above);
3. “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;
4. Master data for domains, such as which MGAs that belongs to a MBA and related characteristics of these domains;
5. New processes for “demand/response”, which may add new tasks for the MDA;
6. Combined switch documents and related master data;
7. Master data for parties, both for the actors in the energy industry, such as BRPs and BSs, and the PCG;
8. “Life cycle of a MP”, including how technical events interact with administrative processes.

4 Resolve matters arising after ETC meeting, March 3rd and 4th 2015

ETC suggest for CuS to rename “Meter Reading Characteristics” to “Metered Data Collection Method” (Meter and MP characteristics).

Conclusion:

- OK.

The following codes were added to the Disconnection Method (MP characteristics):

- Remote
- Manual
- Manual outside
- Manual inside

Conclusion:

- OK.

ETC suggest for CuS to rename “Sustainable Energy” to “Energy generation technology type”. The following codes were added to the ebIX[®] model:

- **T01** Solar
- **T02** Wind
- **T03** Hydro
- **T04** Marine
- **T05** Thermal

Conclusion:

- Preben suggested that we need both the Technology code and Source code from the “EECS Rules Fact Sheet 5 - Types of energy inputs and technologies”.

Action:

- Preben will investigate the demands for codes to be used for the certificate system.

Because of gas, the role Calorific Value Responsible was added with the code **Z11**.

Conclusion:

- OK.

Because of gas and the new role Calorific Value Responsible, two new Document Name Codes were added;

- **E76** Notification from Calorific Value Responsible;
- **E77** Request to Calorific Value Responsible.

Kees informed that the ebIX[®] model has been changed, i.e. using Calorific and NOT Calorific.

Conclusion:

- OK.

The role code **Z04**, Metered Data Aggregator Central, was deprecated.

Conclusion:

- OK.

The role code **Z08**, Billing agent, is agreed to be the same as the UN/CEFACT code **II** (Invoice Issuer) in the ebIX[®], EFET and ENTSO-E Harmonisation Group, hence the code **Z08** was deprecated and the code **II** was added to «ebIX[®] subset».

Conclusion:

- OK.

5 Cancellations

Ove had as homework item from previous meeting made a new draft version of the document “ebIX® Recommendations for cancellation of business documents and processes”, based on the principles and the diagrams from Kees, discussed at previous meeting. The document was reviewed and changes were agreed for new review next meeting.

Conclusion:

- When reviewing BRSs, we should add a chapter related to cancellation procedures;
- Master data should not be cancelled, but updated.

Homework:

- Ove will update the BRS for Cancellations, i.e.:
 - Add a new UC “Notify cancellation”, sent from the Responsible role to the Affected role;
 - The Affected role will be renamed to Responsible role in the request.

6 BRS for alignment of Meter Characteristics

Ove had as homework from previous meeting updated the BRS according to comments from previous meeting and distributed it to CuS for review.

Agreed changes:

- The Meter class was changed to repeatable;
- The Measurement Units for electricity and gas was reviewed and found correct;
- The Sector column was reviewed and updated.

During this item Gerrit noted that we should add a news article at the ebIX® web site regarding Finland becoming a member. Ove will add the news-article as homework.

Continued action from previous meeting:

- ETC will be asked to find a common way of specifying conditions in State diagrams (use of Signals - similar to usage of Guards in activity diagrams).

Homework:

- Gerrit will try finding enumerations connected to Quality class;

Information from Gerrit from after the meeting:

The quality of the meter has disappeared in our models. We still have the quality of the transformers (but that's a different object).

So we could skip the attribute

- Kees will try finding enumerations for “Meter Type”;
- Joachim will verify if the German needs for Meter attributes is covered in the BRS;
- Ove will add a few sentences in the introduction about the ebIX® and IEC harmonisation work and add the CIM metering class diagram as an appendix;
- The BRS will be published under the ebIX®/CuS/Working document page, without review from CuS, but after the homework from Gerrit and Kees;
- Ove will add a news article at the ebIX® web site regarding Finland becoming a member.

7 BRS for alignment of Metering Point Characteristics

Ove had as homework from previous meeting updated the BRS according to comments in the class diagrams (MD model) and send it to CuS for review.

The BRS was reviewed, and updated with “exceptions” regarding cancellations. The BRS will be reviewed at the next meeting regarding Preben’s homework related to sustainable energy.

8 Change proposal from ebIX® project for alignment with the gas sector

Kees had discussed with the ebIX® gas group if ARS can be replaced with the MGA. The conclusion is that we for the time being will need both the ARS and in addition a Calorific Value Area.

9 Code list for production types for gas

Kees informed that he has investigated the existence of a suitable list for gas production types, however without finding any.

Conclusion:

- The item is postponed until the gas sector comes up with a proposal.

10 Different resolutions for different measurements (postponed from meeting December 2013)

The item was postponed.

11 BRS for alignment of Consumer master data

Ove had as homework from previous meeting made a draft BRS for alignment of Consumer master data. The process will be extended to also to include Market Party characteristics.

During this item the XML schema for a Norwegian/Swedish party register was reviewed and a data model for Market Party characteristics was made, see Appendix A.

Gerrit mentioned that he wants to make this process (BRS) a joint projects with tWG. Gerrit will contact Fedder, as convenor of tWG, and ask him to bring the topic into tWG.

Homework:

- Kees will investigate “Code List Responsible Agency Code” for Legal Entity Identifier (LEI);
- Gerrit will contact Fedder, as convenor of tWG, and ask him to bring the alignment of Consumer and Market Party master data into tWG.

12 Request change of attributes connected to a MP:

All had as homework from previous meeting to fill in the rest of the table in Appendix E, which was done by Belgium, Netherlands and Poland.

Homework:

- All are asked to redo the questions in Appendix E – **Note that a new question is added and the original questions are rephrased.**

13 Combined grid and supply billing

Preben and Christian informed that there is extensive exchange of billing data in Denmark, especially related to exchange of master data, including fees, tariffs and subscriptions. A fee is a one-time charge, such as when requesting a meter reading, tariffs are based on a price per item (e.g. kWh) and subscriptions are a fixed amount per time period.

In the Netherlands the tariffs are published on web by the DSO. In addition tariffs are sent from the DSO to the datahub, who forwards these to the suppliers. The datahub calculates by the end of every month a number of days (number of valid MPs multiplied with number of days in the month) for each tariff in a grid per Supplier.

Ove mentioned that there in Norway will be combined billing from 2016. The supplier can choose combined billing or not, and if so, the DSO will send an invoice for the grid costs to the supplier, who will forward this to the Customer and collect the money. A similar process is used in Germany.

In Poland there are two solutions. In the first, where the Customer still has the incumbent supplier, the DSO sends the metered data to the supplier (who already has got the tariff from the DSO as master data). Thereafter the supplier calculates the grid cost, invoices the Customer and pays the DSO. The second solution, for Customers that have changed supplier and have a combined grid and supply contract, is similar to the German and Norwegian solution, where the DSO sends a final invoice to the supplier for forwarding to the Customer.

A sequence diagram for the Danish billing process was made, which will be used by Ove for making a first draft BRS for Combined grid and supply billing, see Appendix B.

Homework:

- Ove will make a first draft BRS for Combined grid and supply billing.

14 Meeting schedule

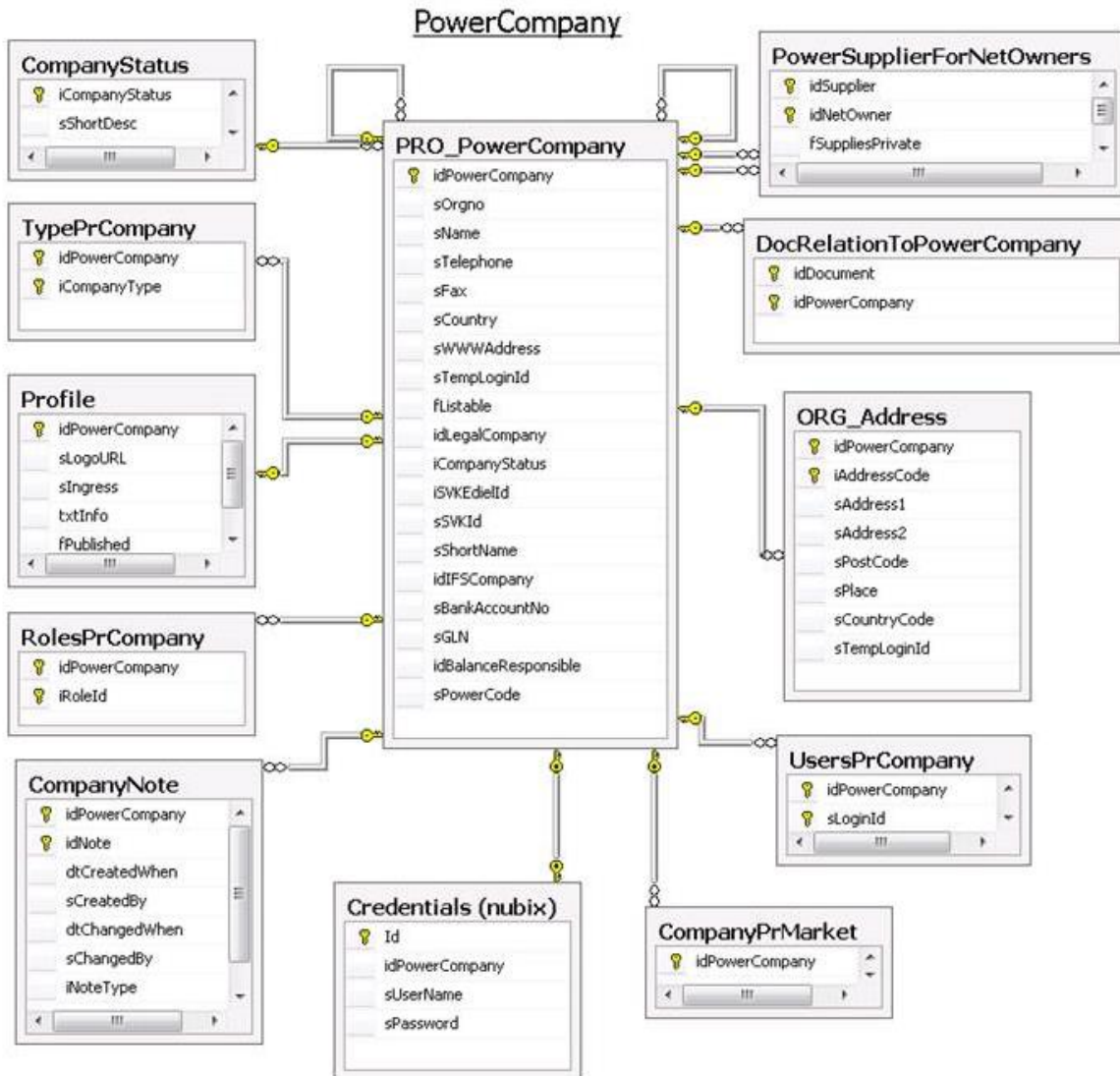
- Tuesday June 16th and Wednesday June 17th Rotterdam, Netherlands;
- Tuesday October 6th and Wednesday October 7th, Norway;
- Tuesday December 1st and Wednesday December 2nd, Denmark.

15 AOB

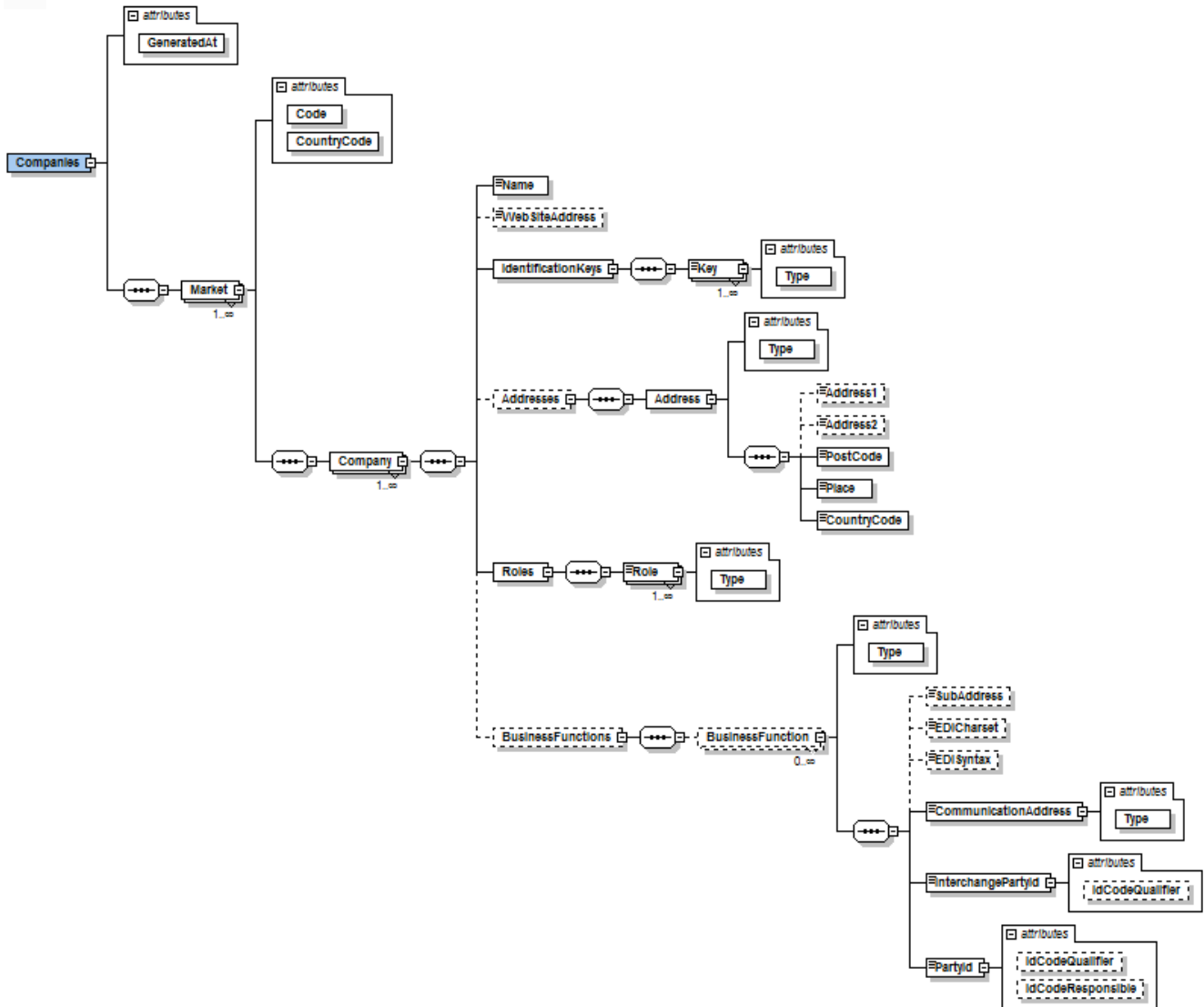
No items

Appendix A Party characteristics models

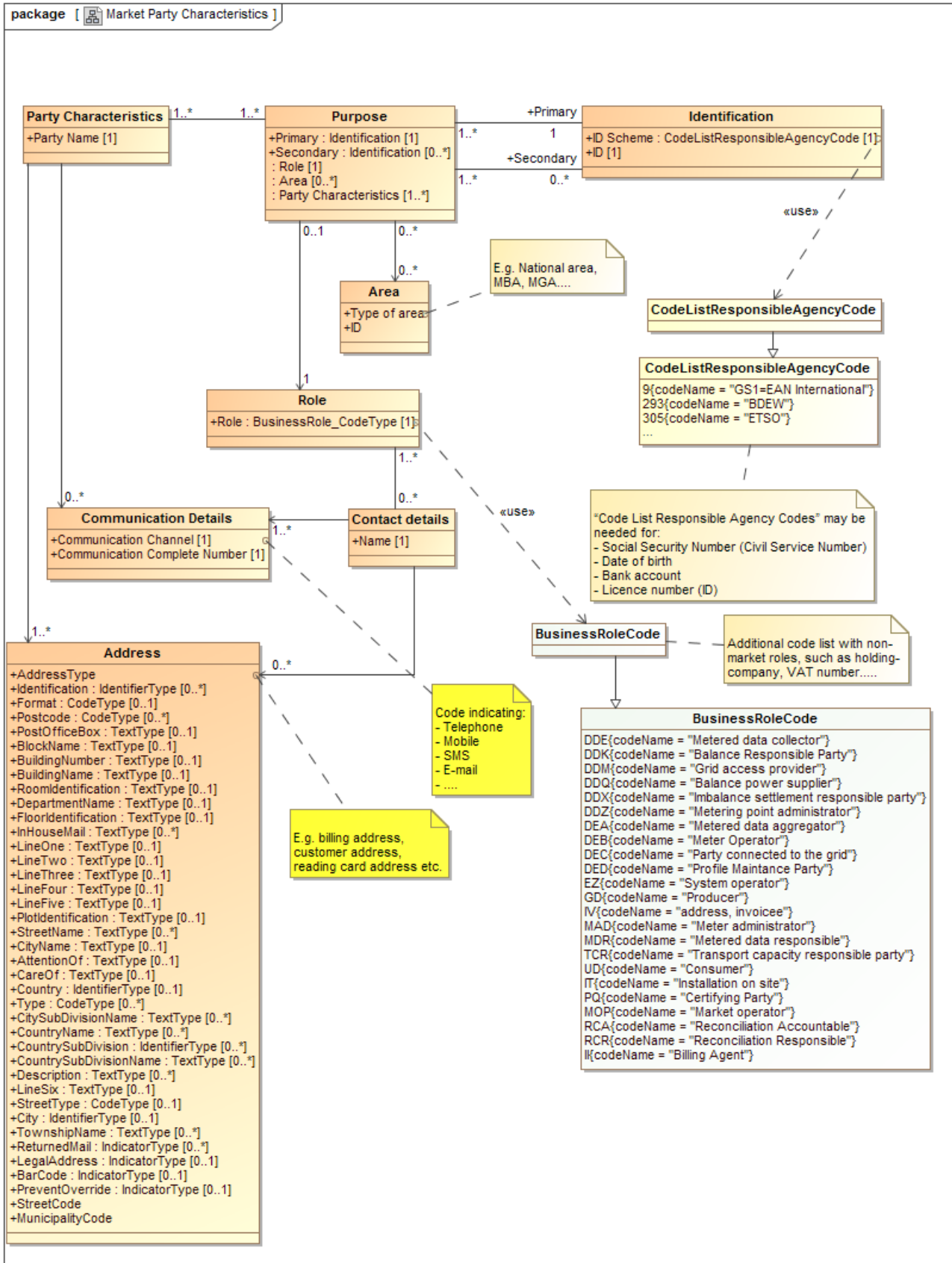
A.1 Data model for Norwegian/Swedish address register for energy actors (Ediel portal):



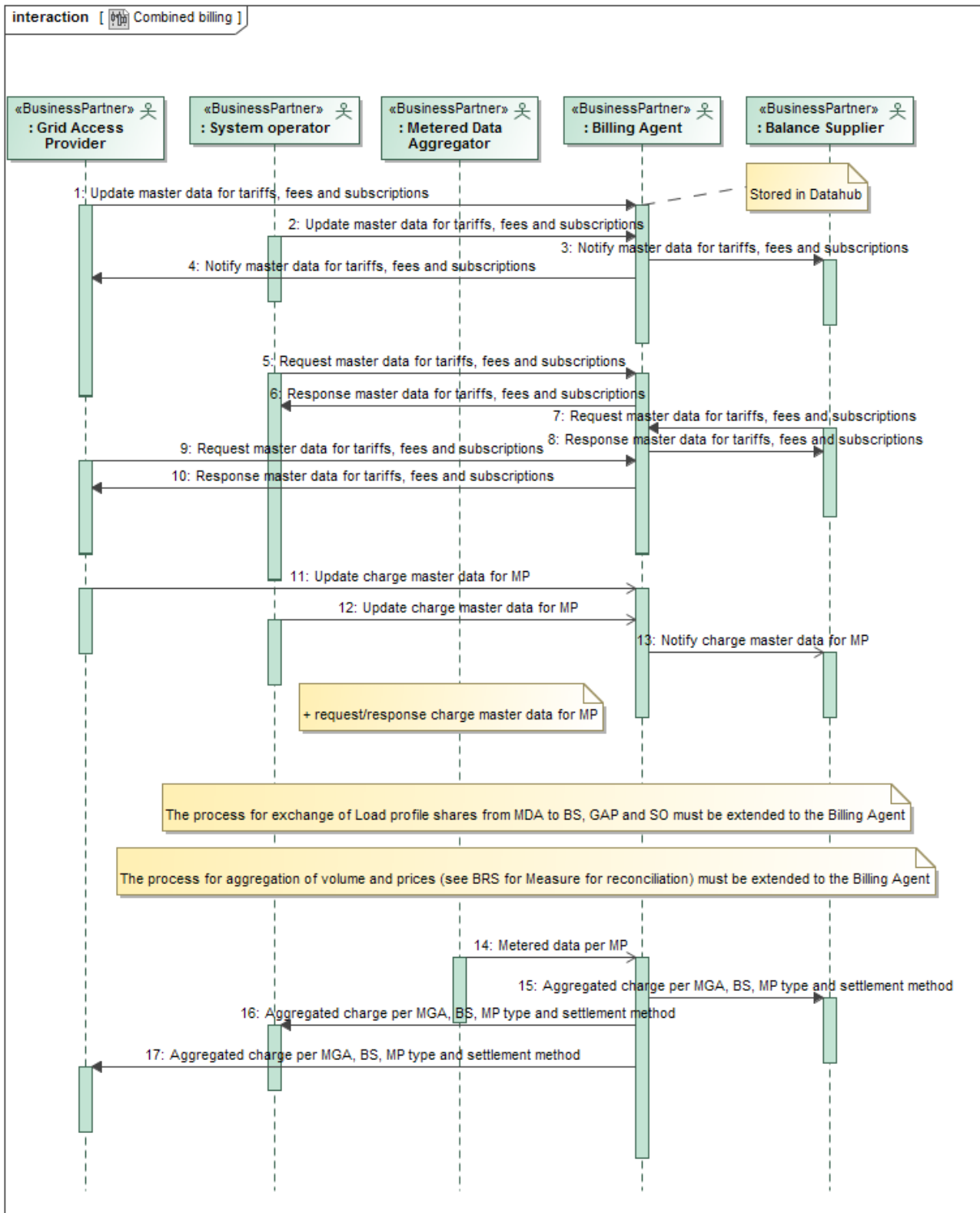
A.2 XML-schema for download from Norwegian/Swedish address register for energy actors (Ediel portal):



A.3 Data model for Market Party characteristics



Appendix B Draft sequence diagram for combined billing



Appendix C CuS Work plan

#	Activity	Prio.	Start	End
A)	MPs having multiple parties with similar roles, e.g. a MP with different BRPs for production and consumption	TBD	TBD	TBD
B)	Handling of "Installation Metering Points" and/or fields (may be related to the item above)	TBD	TBD	TBD
C)	"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	TBD	TBD	TBD
D)	Master data for domains, such as which MGAs that belongs to a MBA and related characteristics of these domains	TBD	TBD	TBD
E)	New processes for "demand/response", which may add new tasks for the MDA	TBD	TBD	TBD
F)	Combined switch documents and related customer master data	TBD	TBD	TBD
G)	Master data for parties, both for the actors in the energy industry, such as BRPs and BSs, and the PCG	TBD	TBD	TBD
H)	"Life cycle of a MP", including how technical events interact with administrative processes	TBD	TBD	TBD
I)	Include gas for MPs, as proposed by the ebIX® gas group	Immediate	Q4/2014	Q1/2015
J)	How to handle the different attributes related to the Consumer, such as consumer contact information (e.g. address and invoice address).	1 st	Q4/2014	Q2/2015
K)	Request change of attributes connected to a MP, such as: <ul style="list-style-type: none"> Closing and Reopening MPs, Change of Metering Method and Change of time frames 	2 nd	Q1/2015	Q3/2015
L)	Combined grid and supply billing (invoicing), including MD for products, such as; grid fees, grid subscriptions, ...	3 rd	Q2/2015	Q1/2016
M)	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.	4 th	Q4/2015	Q3/2016
N)	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?)"	5 th	TBD	TBD
O)	Efficient data alignment, including the possibility to request historical and/or future master data.	6 th	TBD	TBD
P)	Request for services. The item concerns chargeable requests from the BS to the DSO for changes to a MP or a Meter, such as: <ul style="list-style-type: none"> Request for metered data 	TBD	TBD	TBD
Q)	The possible role of a datahub in the processes (Proposed by DK) <ul style="list-style-type: none"> Seen from the supplier side Seen from the DSO side Seen from the metering side 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 include processes between the GAP and the MPA.	TBD	TBD	TBD
R)	QA of the CuS model and consistency of the CuS and EMD models	TBD	TBD	TBD
S)	New (enhanced) processes for labelling	TBD	TBD	TBD

Appendix D Member list

Members:

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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.

Appendix E CHANGE OF MP ATTRIBUTES

MP characteristics attributes	Question 1: Which role(s) is responsible for an element?								Question 2: Do we see a need for a new ebIX® update process covering the change in the MP administration, initiated by the responsible role?							
	BE	DE	DK	NL	NO	PL	SE	SI	BE	DE	DK	NL	NO	PL	SE	SI
«Business entity» Metering Point																
Identification ¹	GAP	BS	na	na	na	na			No	Yes ²	No	No	No	No		
«Business entity» Metering Grid Area																
Identification	GAP	GAP	GAP	GAP	GAP	GAP			No	Yes ³	No	No	No	No		
«Business entity» Aggregated Reception Station																
Identification	GAP	GAP	na	GAP	na	na			No	No	na	No	na	na		
Metering Point Address																
City Name	GAP	GAP	GAP	GAP	GAP	GAP			Yes ^{BE1}	No	No	No	No	No		
Street Name	GAP	GAP	GAP	GAP	GAP	GAP			Yes ^{BE1}	No	No	No	No	No		
Building Number	GAP	GAP	GAP	GAP	GAP	GAP			Yes ^{BE1}	No	No	No	No	No		
Postcode	GAP	GAP	GAP	GAP	GAP	GAP			Yes ^{BE1}	No	No	No	No	No		
Room Identification	GAP	GAP	GAP	GAP	GAP	GAP			Yes ^{BE1}	No	No	No	No	No		
Floor Identification	GAP	GAP	GAP	GAP	GAP	GAP			Yes ^{BE1}	No	No	No	No	No		
Country	GAP	GAP	GAP	GAP	GAP	GAP			Yes ^{BE1}	No	No	No	No	No		
Geographical Coordinate																
Latitude	na	na	na	GAP	GAP	GAP			na	No	No	No	No	No		

¹ There is a need for a process for creation and ending of MPs

² Yes, because there already is a process in place in Germany where the BS can correct mistakes in the MP ID

³ Yes, because there already is a process in place in Germany

BE1 = the MPA has to be warned by the GAP that a MP address has been adapted (push notification)

MP characteristics attributes	Question 1: Which role(s) is responsible for an element?								Question 2: Do we see a need for a new ebIX® update process covering the change in the MP administration, initiated by the responsible role?							
	BE	DE	DK	NL	NO	PL	SE	SI	BE	DE	DK	NL	NO	PL	SE	SI
Longitude	na	na	na	GAP	GAP	GAP			na	No	No	No	No	No		
Altitude ⁴	na	na	na	GAP	GAP	GAP			na	No	No	No	No	No		
System	na	na	na	GAP	GAP	GAP			na	No	No	No	No	No		
Metering Point Party																
Balance Supplier ID	BS	BS	BS	BS	BS	BS			No	No	No	No	No	No		
Metered Data Responsible ID	na	MDR	na	MDR	na	na			No	No	No	No	No	No		
Balance Responsible Party ID	BS	BS/GAP	BS	BS/BRP	BS	BS/BRP			No	No	Yes ⁵	Yes ⁶	No	Yes ⁷		
Transport Capacity Responsible Party ID	na	BS/GAP	BS ⁸	BS/TCR	na	na			na	No	No	Yes ⁹	No	No		
Grid Access Provider ID	GAP	GAP	GAP	GAP	GAP	GAP			Yes	Yes	No	Yes	No	No		
Supply Customer																
Name	BS	BS	BS	BS	BS	BS			Yes	Yes	Yes	Yes	Yes	Yes		
ID	BS	BS	BS	na	BS	BS			Yes	Yes	Yes	Yes	Yes	Yes		
Grid Customer																
Name	GAP	GAP	na	GAP	na	GAP			na	No	No	Yes	No	No		
ID	na	na	na	na	na	GAP			na	No	No	na	No	No		
Metering Point characteristics																

⁴ The altitude of the meter may be used in the gas sector for correction purposes.

⁵ Denmark want a process for bulk change of BRP

⁶ Netherlands want to open the process so that also the BRP can request the change – A bulk change process is already in place

⁷ Poland want to open the process so that also the BRP can request the change and a bulk change process is already defined

⁸ In Denmark the BS is covered by the Shipper together with the TCR

⁹ Netherlands want to open the process for the TCR – A bulk change process is already in place

MP characteristics attributes	Question 1: Which role(s) is responsible for an element?								Question 2: Do we see a need for a new ebIX® update process covering the change in the MP administration, initiated by the responsible role?							
	BE	DE	DK	NL	NO	PL	SE	SI	BE	DE	DK	NL	NO	PL	SE	SI
Balance Group ID	na	BS	na	na	na	na			na	Yes	No	No	No	No		
Type Of Metering Point	BS/ GAP	GAP	GAP	GAP	GAP	GAP			No	Yes	No	Yes	Yes	Yes		
Metering Method	BS ¹⁰ / GAP	GAP	na	GAP	GAP	GAP			NO	Yes	na	Yes	Yes	Yes		
Settlement Method	GAP	GAP	GAP	GAP	GAP	GAP			No	Yes	Yes	Yes	Yes	Yes		
Scheduled Meter Reading Date	BS/ GAP	GAP	GAP	MDR	GAP	GAP			No	Yes	Yes	No	No	Yes		
Grid Agreement Type		GAP	na	na/BS	BS	BS/ GAP				Yes	No	Yes	Yes	Yes		
Meter Reading Periodicity	BS/ GAP	BS	na	MDR	GAP	GAP			Yes	Yes	No	Yes	No	Yes		
Metering Point Electricity Voltage Level	GAP	GAP / Cust .	na	GAP	na	GAP			Yes	Yes	No	Yes	na	Yes		
Administrative Status Of Metering Point	BS	na	na	na	na	na			No	na	na	na	na	na		
Physical Status Of Metering Point	BS/ GAP	BS/ GAP	GAP	GAP	BS/ GAP	BS/ GAP			Yes	Yes	Yes	Yes	Yes	Yes		
Contracted Connection Capacity	BS	BS	GAP	GAP	na	BS/ GAP			No	Yes	No	Yes	No	Yes		
Contracted Connection Capacity Measure Unit	Na	GAP	GAP	GAP	na	GAP			na	Yes	No	Yes	No	Yes		
Gas pressure level	GAP	na	na	GAP	na	na			Yes	No	No	Yes	No	na		
Metered data collection method	GAP	GAP / BS	GAP	GAP/ MDR	GAP	GAP			Yes	Yes	No	Yes	No	Yes		

¹⁰ for smart meter Supplier may ask to go from meter regime 1 (non continu) to meter regime 3 (continuu)

MP characteristics attributes	Question 1: Which role(s) is responsible for an element?								Question 2: Do we see a need for a new ebIX® update process covering the change in the MP administration, initiated by the responsible role?							
	BE	DE	DK	NL	NO	PL	SE	SI	BE	DE	DK	NL	NO	PL	SE	SI
Sustainable Energy	GAP	GAP / BS	na	GAP/ BS	na	GAP			Yes	Yes	No	Yes	No	Yes		
Disconnection Contract	na			na		GAP			Yes			na		Yes		
Physical Characteristics																
Capacity of a Metering point	GAP			GAP		GAP			Yes			Yes		Yes		
Disconnection Method	Na			GAP		GAP			na			Yes		Yes		
Volume information																
Product Type	GAP			GAP		GAP			Yes			Yes		Yes		
Measure Unit	GAP			GAP		GAP			Yes			Yes		Yes		
Standard Load Profile	GAP			GAP		GAP			Yes			Yes		Yes		
Direction	GAP			GAP		GAP			Yes			Yes		Yes		
Estimated annual volume																
Quantity	GAP	BS/ MD A	MDA	MDA	MDA	GAP			Yes			No		No		
Meter Time Frame Type	BS/ GAP	BS/ MD A	na	MDA	na	GAP			Yes			No		No		

MP characteristics attributes	Question 1 (same as in previous table) Which role(s) is responsible for an element?							Question 3: Do we see a need for a new ebIX® update process covering the change in the MP administration, initiated by non-responsible roles and if yes which role?								
	BE	DE	DK	NL	NO	PL	SE	SI	BE	DE	DK	NL	NO	PL	SE	SI
«Business entity» Metering Point																
Identification ¹¹	GAP	BS	na	na	na	na										
«Business entity» Metering Grid Area																
Identification	GAP	GAP	GAP	GAP	GAP	GAP							no			
«Business entity» Aggregated Reception Station																
Identification	GAP	GAP	na	GAP	na	na							no			
Metering Point Address																
City Name	GAP	GAP	GAP	GAP	GAP	GAP							BS/MR			
Street Name	GAP	GAP	GAP	GAP	GAP	GAP							BS/MR			
Building Number	GAP	GAP	GAP	GAP	GAP	GAP							BS/MR			
Postcode	GAP	GAP	GAP	GAP	GAP	GAP							BS/MR			
Room Identification	GAP	GAP	GAP	GAP	GAP	GAP							BS/MR			
Floor Identification	GAP	GAP	GAP	GAP	GAP	GAP							BS/MR			
Country	GAP	GAP	GAP	GAP	GAP	GAP							BS/MR			
Geographical Coordinate																
Latitude	na	na	na	GAP	GAP	GAP							BS/MR			
Longitude	na	na	na	GAP	GAP	GAP							BS/MR			
Altitude ¹²	na	na	na	GAP	GAP	GAP							BS/MR			
System	na	na	na	GAP	GAP	GAP							BS/MR			
Metering Point Party																

¹¹ There is a need for a process for creation and ending of MPs

¹² The altitude of the meter may be used in the gas sector for correction purposes.

MP characteristics attributes	Question 1 (same as in previous table) Which role(s) is responsible for an element?							Question 3: Do we see a need for a new ebIX® update process covering the change in the MP administration, initiated by non-responsible roles and if yes which role?								
	BE	DE	DK	NL	NO	PL	SE	SI	BE	DE	DK	NL	NO	PL	SE	SI
Balance Supplier ID	BS	BS	BS	BS	BS	BS					No					
Metered Data Responsible ID	na	MDR	na	MDR	na	na					No					
Balance Responsible Party ID	BS	BS/GAP	BS	BS/BRP	BS	BS/BRP					No					
Transport Capacity Responsible Party ID	na	BS/GAP	BS13	BS/TCR	na	na					No					
Grid Access Provider ID	GAP	GAP	GAP	GAP	GAP	GAP					No					
Supply Customer																
Name	BS	BS	BS	BS	BS	BS					No					
ID	BS	BS	BS	na	BS	BS					No					
Grid Customer																
Name	GAP	GAP	na	GAP	na	GAP					No					
ID	na	na	na	na	na	GAP					No					
Metering Point characteristics																
Balance Group ID	na	BS	na	na	na	na										
Type Of Metering Point	BS/GAP	GAP	GAP	GAP	GAP	GAP					No					
Metering Method	BS ¹⁴ /GAP	GAP	na	GAP	GAP	GAP					?					
Settlement Method	GAP	GAP	GAP	GAP	GAP	GAP					Yes					
Scheduled Meter Reading Date	BS/GAP	GAP	GAP	MDR	GAP	GAP					yes					

¹³ In Denmark the BS is covered by the Shipper together with the TCR

¹⁴ for smart meter Supplier may ask to go from meter regime 1 (non continu) to meter regime 3 (continu)

MP characteristics attributes	Question 1 (same as in previous table) Which role(s) is responsible for an element?								Question 3: Do we see a need for a new ebIX® update process covering the change in the MP administration, initiated by non-responsible roles and if yes which role?							
	BE	DE	DK	NL	NO	PL	SE	SI	BE	DE	DK	NL	NO	PL	SE	SI
Grid Agreement Type		GAP	na	na/BS	BS	BS/ GAP						no				
Meter Reading Periodicity	BS/ GAP	BS	na	MDR	GAP	GAP						yes				
Metering Point Electricity Voltage Level	GAP	GAP / Cust	na	GAP	na	GAP						no				
Administrative Status Of Metering Point	BS	na	na	na	na	na										
Physical Status Of Metering Point	BS/ GAP	BS/ GAP	GAP	GAP	BS/ GAP	BS/ GAP						(yes)				
Contracted Connection Capacity	BS	BS	GAP	GAP	na	BS/ GAP						no				
Contracted Connection Capacity Measure Unit	Na	GAP	GAP	GAP	na	GAP						no				
Gas pressure level	GAP	na	na	GAP	na	na						no				
Metered data collection method	GAP	GAP / BS	GAP	GAP/ MDR	GAP	GAP						yes				
Sustainable Energy	GAP	GAP / BS	na	GAP/ BS	na	GAP						no				
Disconnection Contract	na			na		GAP						na				
Physical Characteristics																
Capacity of a Metering point	GAP			GAP		GAP						no				

MP characteristics attributes	Question 1 (same as in previous table) Which role(s) is responsible for an element?								Question 3: Do we see a need for a new ebIX® update process covering the change in the MP administration, initiated by non-responsible roles and if yes which role?							
	BE	DE	DK	NL	NO	PL	SE	SI	BE	DE	DK	NL	NO	PL	SE	SI
Disconnection Method	Na			GAP		GAP						no				
Volume information																
Product Type	GAP			GAP		GAP						no				
Measure Unit	GAP			GAP		GAP						no				
Standard Load Profile	GAP			GAP		GAP						no				
Direction	GAP			GAP		GAP						no				
Estimated annual volume																
Quantity	GAP	BS/MD A	MDA	MDA	MDA	GAP						yes				
Meter Time Frame Type	BS/GAP	BS/MD A	na	MDA	na	GAP						yes				