

Minutes CuS meeting, October 6th and 7th, 2015	 European forum for energy Business Information eXchange
October 23 rd , 2015	CuS, Structuring of the energy market, phase V

Minutes – CuS project meeting

Date: Tuesday and Wednesday October 6th and 7th, 2015
Time: 09:00 – 17:00 (18:00?) and 9:00 – 16:00
Place: Oslo, Norway
Participants: Christian, DK
Gerrit (Convenor), NL
Joachim, DE
Kees, NL
Minna, FI
Ove (Secretary, NO)
Preben, DK
Torleif, NO

Appendix A CuS Work plan

Appendix B Change of MP attributes



2015-09-30-Rollenmodell-MAK_QS.docx

Attachments: , see item 12, BRS for alignment of Customer master data

1 Opening

Gerrit opened the meeting, welcomed the participants and thanked Torleif for hosting the meeting.

2 Approval of agenda

The agenda was approved with the following additions:

- Information from Sweden, see 18.1 under AOB.
- Status for publication of CuS BRSs and BIMs, see 18.2 under AOB.

During this item it was agreed to remove the following text from the ebIX® Document page (both for CuS and EMD blocs): “based on UN/CEFACT’s Modelling Methodology 2.0 -”.

Action:

- Ove will ask the web master to remove the text “**based on UN/CEFACT’s Modelling Methodology 2.0 -**”.

3 Approval of the minutes from previous meeting

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

- Textual correction from Jan Ove (by mail before the meeting): Change “Similar ebIX® Forum as to find a new convenor” to “Similar ebIX® Forum has to find a new convenor.”

During this item Kees mentioned, for information, that the ebIX® Gas project has completed its work. However, ETC has to define changes to related ABIEs and CuS need to update relevant BRSs.

4 Preparation for ebIX® Forum meeting October 13th

The agenda for the ebIX® Forum meeting October 13th was reviewed:

- Gerrit mentioned that ebIX® has received a letter from Konstantin Staschus, Secretary-General of ENTSO-E (and former chairman of ebIX®), where Konstantin proposes a closer cooperation between ebIX® and ENTSO-E.
- Christian mentioned that he would like to see ebIX® concentrate on BRSs and let IEC do all BIMs and technical work.
 - Kees responded that also with an IEC standard, national implementations will probably need modifications before usage nationally.

Thereafter the CuS presentation for the forum was presented, which led to a few modifications. During the presentation, Kees suggested to move the billing process to EMD, since the work load for CuS is high.

5 Do we need a test-flag in the header or detail part of the documents?

From Thibaut:

I was looking for some code into the DocumentFunctionCode list from UN/CEFACT (<http://www.unece.org/trade/untdid/d00a/tred/tred1225.htm>) and I noticed the code 53 – Test (“Code indicating the message is to be considered as a test.”)

I remembered then that we once received the question about the possibility to add a test indicator to our messages.

We could then maybe use this code in the BBIE *Function* to indicate that a message is for test purpose only.

I checked the 2014.A version of ebIX model and I see that the attribute *Function* is only foreseen for ABIEs Energy_TimeSeries, CollectedData_TimeSeries, MeasuredData_Request but not in MasterDataMP_Event nor MP_Event nor Response_Event. If we only add this attribute to these ABIEs, we will be sure that all payload (and then all messages) will support a kind of test indicator.

Earlier reply from Fedder:

If I recall correctly we concluded that it was a bad idea to add an attribute in the payload of the messages to indicate that it was for testing purposes.

The topic was discussed at an ETC meeting October 2014, which concluded to add the paragraph below to the “introduction to ebIX® models”:

ebIX® documents (or an ABIE as part of a message assembly <<MA>>) do not contain a test flag (normally to be switched on for testing purposes). The transmission envelope (SOAP-header) is regarded to be a more likely place to put this indicator, at least with routing purposes in mind. And additional investigation learned that national implementations don’t need a test indicator, since these implementations have separate test environments.

Conclusion:

- The request was rejected.

Action:

- Ove and Kees will ask ETC to publish the document “Introduction to ebIX Models version 1r0B” as soon as possible.

6 Do we need both the Technology code and Source code from the “EECS Rules Fact Sheet 5”

Preben suggested, at the previous CuS meeting, that we need both the Technology code and Source code from the “EECS Rules Fact Sheet 5 - Types of energy inputs and technologies”. Preben had as homework to investigate the demand for codes to be used for the green certificate system and concluded that we need both the Technology code and Fuel (Source) code from the “EECS Rules Fact Sheet 5 - Types of energy inputs and technologies”.

Action:

- Kees and Ove will ask ETC to make sure that we have both the Technology code and Fuel code from the “EECS Rules Fact Sheet 5 - Types of energy inputs and technologies” in the ebIX® model and update related ABIE, etc.

7 Cancellations (final approval)

The BRS was reviewed based on comments from Gerrit:

- The Need for a Business Reason Code (E05 Cancellation) and a Document Name Code (E67 Request regarding Cancellation) in the header was questioned.

Action:

- Ove will assure that the layout in the CuS BRS documents are the same:
 - Non-bold footer and bold header;
 - Underline the header and over-line the footer;
 - Ove will find agreed layout rules for class diagrams and send them to Kees;
 - Remove “Finally, optional information needed to meet national requirements is specified” from the introduction to the Business Entity View (chapter 2.5);
 - Make the grey colour of header enumerations yellow.
- Kees and Ove will bring the question regarding the Need for a Business Reason Code (E05 Cancellation) and a Document Name Code (E67 Request regarding Cancellation) in the header to ETC:
 - If the Document Name Code is kept, we need a new Document Name Code for Cancellation of Notification (today E44 is used in the BRS).
- Ove will publish the BRS after the ETC meeting October 12th, unless there are blocking comments.

8 BRS for alignment of Meter Characteristics

Denmark, Germany and the Netherlands are candidates for using this BRS. The BRS is to a large extent based on the Dutch process, Denmark has already implemented a similar process and Germany will probably not discuss changes to their current implementation before next year. Hence, we will make the BRS publishable and thereafter postpone updates until new needs come up.

Kees had as action from previous meeting to try finding enumerations for “Meter Type”, but no enumerations was found, such as an enumeration from CIM).

New gas elements, from Appendix C in the agenda, was reviewed at the previous CuS meeting and not further discussed.

The Danish requirements, also found in Appendix C in the agenda, were reviewed and all the attributes are present in the BRS, except for Meter Reading Type (accumulated or “difference meter”) and “MPA address wash instruction” (Boolean washable/unwashable, i.e. verified with official address register or not). The latter is seen as a Danish speciality.

Gordon had informed that there are some master data defined for all types of equipment that could be used in a metering job, see Appendix D in the agenda. However, CuS does not think these are addable for the time being.

Actions:

- All are asked to review the BRS, with the intention to be “publishable”, especially with a focus on Meter Reading Type (accumulated or “difference meter”) from Denmark and other needs for “Meter Types”.
- The intention is to publish the BRS after next CuS meeting.
- The latest update is found at [CuS documents for review](#).

9 BRS for alignment of Metering Point Characteristics

ETC had proposed several changes to the BRS. These were reviewed and agreed.

The conclusion from the ebIX® gas project is that we for the time being will need both the Aggregated Reception Station (ARS) and in addition a Calorific Value Area (CVA).

The Technology code was renamed to “Energy Label Technology” and the Fuel code was renamed to “Energy Label Fuel” and added to the BRS.

Actions:

- Preben will make a list of technology and fuel codes used in Denmark.
- Kees and Preben will thereafter come up with a proposal for which codes to add to the ebIX® model.
- The intention is to publish the BRS after the next meeting, i.e.:
 - All are asked to review the BRS, with the intention to be “publishable”;
 - The latest update is found at [CuS documents for review](#).

10 Code list for production types for gas (awaiting proposal from the gas sector)

See Appendix E in the agenda.

Conclusion:

- We expect the new “Energy Label Technology” and “Energy Label Fuel” to solve the Belgian need, maybe with an extended list compared to Prebens homework from previous item.

11 Different resolutions for different purposes in a MP (postponed from previous meeting)

Since the item has been on the CuS agenda for more than a year and Belgium did not provide extra input nor was present at the meeting, the item was removed from future CuS agendas.

12 BRS for alignment of Customer master data

Kees had as homework from previous meeting to investigate “Code List Responsible Agency Code” for Legal Entity Identifier (LEI), however without finding anything.

Gerrit had as homework from previous meeting to contact Fedder, as (now former) convenor of tWG, and ask him to bring the alignment of Master Data for Market Parties into tWG. However, tWG is suspended, at least for the time being, hence the homework was impossible to accomplish.

The draft BRS was reviewed:

- There was a discussion regarding the content of the BRS, i.e. is the intention to exchange Customer Master Data, Consumer Master Data, Market Party Master Data....?
 - We will, at least for the time being, model master data for a Customer.
- The new role Party Administrator was also discussed. For instance: Is the Party Administrator «mappedTo» the Balance Supplier and/or the Meter Operator, or a datahub (for those countries using a datahub)?
 - The conclusion was that the Role Party Administrator («BusinessPartner») was kept and the role was «mappedTo» the «HarmonisedRole» Balance Supplier. The definition of the Party Administrator is:

A party responsible for keeping a register over relevant party data and making this information available for entitled parties in the sector.

- The Entitled Role was created, with the following definition:

A Market Party entitled to receive this exchanged information

- During the discussions, Ove informed that the Danish and Norwegian datahubs have added the new role Metering Point Responsible, in addition to the Metering Point Administrator, where the Metering Point Responsible is responsible for the technical characteristics of the MP and the Metering Point Administrator is responsible for the MP register and the Market Parties connected to the MP, such as BRP and BS:
 - Similar Denmark and Norway would like to see a Party Responsible (the BS) and a Party Administrator (the datahub).
- For the CuS BRSs we will follow the Harmonised Role Model, i.e. we will not make the split into a Metering Point Administrator and a Metering Point Responsible – The datahubs is seen as a third party, not having any formal market responsibilities.

During the discussions, Joachim distributed the German Role Model, see attached Word document.

Actions:

- Kees will contact the Dutch chamber of commerce to see if they have a suitable code for Legal Entity Identifier (LEI).
- Ove will do some clean up and distribute the draft BRS, e.g.:
 - Change Party to Customer where relevant (among others keeping “Party Administrator” as a role);
 - Change Affected Role to Entitled Role.

13 Request change of attributes connected to a MP

Due to lack of time the item was postponed.

14 Combined grid and supply billing

Due to lack of time the item was postponed.

15 Preparations for start of “interfering processes”

Due to lack of time the item was postponed.

16 Preparations for start of “Switch of grid”

Due to lack of time the item was postponed.

17 Meeting schedule

- Tuesday November 24th and Wednesday November 25th 2015 in Denmark – **Note changed dates.**
- Tuesday February 2nd and Wednesday February 3rd in Helsinki.
- Wednesday June 1st and Thursday June 2nd in Berlin.
- Wednesday September 7th and Thursday September 8th in Poland, Belgium or Slovenia.
- Tuesday November 22nd and Wednesday November 23rd Belgium, Poland or Slovenia.

18 AOB

18.1 Information from Sweden

Jan had (by e-mail) informed that also Sweden will get a data-hub. During this item Minna informed that also Finland will establish a data-hub.

18.2 Status for publication of CuS BRSs and BIMs

Due to lack of time the item was postponed.

Appendix A CuS Work plan

#	Activity	Priority	Start	End
A)	Master data for parties, both for the actors in the energy industry, such as BRPs and BSs, and the PCG, including 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	Q4/2015
B)	Request change of attributes connected to a MP, such as Closing and Reopening MPs, Change of Metering Method and Change of time frames	2 nd	Q1/2015	Q4/2015
C)	Combined grid and supply billing (invoicing), including MD for products, such as; grid fees, grid subscriptions, ...	3 rd	Q2/2015	Q2/2016
D)	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	Q2/2015	Q3/2016
E)	“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	5 th	Q3/2015	Q2/2016
F)	MPs having multiple parties with similar roles, e.g. a MP with different BRPs for production and consumption	6 th	Q4/2015	Q4/2016
G)	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?)”	7 th	TBD	TBD
H)	Efficient data alignment, including the possibility to request historical and/or future master data.	8 th	TBD	TBD
I)	Master data for domains, such as which MGAs that belongs to a MBA and related characteristics of these domains	Awaiting network codes from ENTSO-E	TBD	TBD
J)	New processes for “demand/response”, which may add new tasks for the MDA	Awaiting EMD survey and ebIX® Forum decision	TBD	TBD
K)	Combined switch documents and related customer master data	Awaiting “Master data for parties”	TBD	TBD
L)	Handling of “Installation Metering Points” and/or fields (may be related to the item above)	TBD	TBD	TBD
M)	“Life cycle of a MP”, including how technical events interact with administrative processes and responsibilities	TBD	TBD	TBD
N)	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
O)	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 	TBD	TBD	TBD

	When adding a datahub to a market the datahub will replace the DSOs, to a large extent, i.e. the MPA will be the datahub. Among others, the proposal include processes between the GAP and the MPA.			
P)	QA of the CuS model and consistency of the CuS and EMD models	TBD	TBD	TBD
Q)	New (enhanced) processes for labelling	TBD	TBD	TBD

Appendix B 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	GAP	na	GAP	na			No	Yes ²	No	No	No	No		
«Business entity» Metering Grid Area																
Identification	GAP	GAP	GAP	GAP	ISR	GAP			No	Yes ³	No	No	Yes ⁴	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																

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)

⁴ MGA and MBA Master Data, MBA-MGA relations and MGA-MGA relations

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
Latitude	na	na	na	GAP	GAP	GAP			na	No	No	No	No	No		
Longitude	na	na	na	GAP	GAP	GAP			na	No	No	No	No	No		
Altitude ⁵	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 ⁶	Yes ⁷	No	Yes ⁸		
Transport Capacity Responsible Party ID	na	BS/ GAP	BS ⁹	BS/ TCR	na	na			na	No	No	Yes ¹⁰	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	BS	GAP			na	No	No	Yes	No	No		
ID	na	na	na	na	BS	GAP			na	No	No	na	No	No		

⁵ The altitude of the meter may be used in the gas sector for correction purposes.

⁶ Denmark want a process for bulk change of BRP

⁷ Netherlands want to open the process so that also the BRP can request the change – A bulk change process is already in place

⁸ Poland want to open the process so that also the BRP can request the change and a bulk change process is already defined

⁹ In Denmark the BS is covered by the Shipper together with the TCR

¹⁰ 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
Metering Point characteristics																
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 ¹¹ / 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	GAP	na			No	na	na	na	na	na		
Physical Status Of Metering Point	BS/ GAP	BS/ GAP	GAP	GAP	GAP	BS/ GAP			Yes	Yes	Yes	Yes	Yes	Yes		
Contracted Connection Capacity	BS	BS	GAP	GAP	GAP	BS/ GAP			No	Yes	No	Yes	No	Yes		
Contracted Connection Capacity Measure Unit	Na	GAP	GAP	GAP	GAP	GAP			na	Yes	No	Yes	No	Yes		
Gas pressure level	GAP	na	na	GAP	na	na			Yes	No	No	Yes	No	na		

¹¹ for smart meter Supplier may ask to go from meter regime 1 (non continu) to meter regime 3 (continuu)
ebIX®/CuS

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
Metered data collection method	GAP	GAP/BS	GAP	GAP/MDR	GAP	GAP			Yes	Yes	No	Yes	No	Yes		
Sustainable Energy	GAP	GAP/BS	na	GAP/BS	GAP	GAP			Yes	Yes	No	Yes	No	Yes		
Disconnection Contract	na		?	na	GAP	GAP			Yes			na		Yes		
Physical Characteristics																
Capacity of a Metering point	GAP		GAP	GAP	GAP	GAP			Yes			Yes		Yes		
Disconnection Method	Na		GAP	GAP	GAP	GAP			na			Yes		Yes		
Volume information																
Product Type	GAP		GAP	GAP	GAP	GAP			Yes			Yes		Yes		
Measure Unit	GAP		GAP	GAP	GAP	GAP			Yes			Yes		Yes		
Standard Load Profile	GAP		?	GAP	MDA	GAP			Yes			Yes		Yes		
Direction	GAP		Exchange	GAP	?	GAP			Yes			Yes		Yes		
Estimated annual volume																
Quantity	GAP	BS/MDA	MDA	MDA	MDA	GAP			Yes			No		No		
Meter Time Frame Type	BS/GAP	BS/MDA	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 ¹²	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 ¹³	na	na	na	GAP	GAP	GAP							BS/MR			
System	na	na	na	GAP	GAP	GAP							BS/MR			
Metering Point Party																

¹² There is a need for a process for creation and ending of MPs

¹³ 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	BS14	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 ¹⁵ /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				

¹⁴ In Denmark the BS is covered by the Shipper together with the TCR

¹⁵ for smart meter Supplier may ask to go from meter regime 1 (non continu) to meter regime 3 (continuu)

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				