

Minutes CuS meeting, June 16th and 17th, 2015	 European forum for energy Business Information eXchange
June 19 th , 2015	CuS, Structuring of the energy market, phase V

Minutes – CuS project meeting

Date: Tuesday and Wednesday June 16th and 17th, 2015
Time: 09:00 – 17:00 (18:00?) and 9:00 – 16:00
Place: Rotterdam, the Netherlands
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
Torleif Korneliussen, Hafslund, NO

Appendix A CuS Work plan
Appendix B Member list
Appendix C Inventory of relevant CuS downstream processes
Appendix D Belgian-German Gas Group homework
Appendix E German needs for Meter attributes - homework
Appendix F Mail exchange regarding gas production code list
Appendix G Change of MP attributes

1 Approval of agenda

The agenda was approved with the following additions:

- Vendor participation in ebIX®, see 17.1 under AOB;
- ebIX® BIMs, see 17.2 under AOB;
- Information, see 17.3 under AOB.

2 Approval of the minutes from previous meeting

The minutes from previous meeting were approved.

3 Inventory of relevant CuS downstream processes

CuS and EMD have been asked from ebIX® Forum to make inventories of relevant downstream processes (both the ones currently modelled and missing processes). The CuS inventory in Appendix C was reviewed and updated.

Christian had made some comments to the proposal:

- Denmark would like to include customer information in the change of supplier and move processes;
- When a Balance Supplier (BS) sends an “End of supply” in Denmark, the BS is responsible for the consumption until the MP is physically disconnected;
- The switch of grid can only be switch of MGAs and not moving MPs between MGAs:
 - Boštjan informed that the latter (moving MPs between MGAs) is needed in Slovenia.
- Exchange and update of master data for parties, including Customer addresses and other information, is needed;

- Nearly all attributes in a MP can be changed;
- Installations with different BRPs for production and consumption will be two MPs in Denmark.

Kees informed that the Gas working group finished work (pending is the discussion on calorific values at installations and areas).

Action:

- Ove will forward the inventory to the next ebIX® Forum meeting in October.

4 Update CuS work plan

The work plan in Appendix A was reviewed and the following changes were done:

- Include gas for MPs, as proposed by the ebIX® gas group (finalised);
- “How to handle the different attributes related to the Consumer, such as consumer contact information (e.g. address and invoice address)” was included in the item “Master data for parties”. We may have to consider to split the Consumer from Parties.

During this item a “basic principle” was agreed, however with a possible exception related to the Norwegian dynamic Market Balance Areas (MBAs), which can be changed several times a year. When the MBAs are changed, a document is distributed to the market informing which MGAs that are a part of the different MBAs.

Conclusion (basic principle):

- A basic principle is that, in master data you always specify in the lower level which domain it belongs to. E.g. which MGA a MP belongs to, is specified in the MP register and not in the MGA register.

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

The item was postponed.

6 Cancellations

Ove had as homework from previous meeting updated the BRS for Cancellations, which was reviewed and updated, among others with an overall UseCase for the two “cancellation processes”, i.e. request and notify cancellation of a business document.

The document will be reviewed by mail and approved at next CuS meeting.

Conclusion (basic principle):

- A basic principle is that we make an overall UseCase for the “sub-UseCases” in a BRS. The overall UseCase will be without actors.

Action:

- Ove will add an activity diagram for the overall UseCase and clean up the class diagrams;
- Thereafter the document will be sent for final review by mail to CuS – final approval at next CuS meeting;
- All are asked to review the BRS before next CuS meeting.

The updated document can be found at [Documents for review at CuS meeting October 2015.](#)

7 BRS for alignment of Meter Characteristics

Homework from previous meeting:

- Gerrit will try to find 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).
Conclusion:
 - The Quality Class will be skipped as an attribute.
- Kees will try to find enumerations for "Meter Type".
Status:
 - Continued homework.
- Joachim will verify if the German needs for Meter attributes is covered in the BRS.
Status:
 - Joachim's homework in [Appendix E](#) was reviewed and comments documented in the table.
- 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.
Status:
 - Text has been added in the introduction and the CIM metering class diagram is added as appendix A.
- The BRS will be published under the eBIX®/CuS/Working document page, without review from CuS, but after the homework from Gerrit and Kees.
Status:
 - Awaiting finalised homework.
- Ove will add a news article at the eBIX® website regarding Finland becoming a member
Status:
 - The news item is published at the eBIX® website.

Discussion/decisions:

- Torleif proposed adding "Pulse frequency", to be used by an optical reader by the BS and/or third parties to automatically read the meter. However, the information is expected to be replaced by a "HAN standard" in Norway when installing AMR meters. The attribute will not be added before the need is better justified.
- Joachim informed that Germany currently are exchanging "Scheduled Meter Reading Date" and "Meter Reading Periodicity" at the Meter level. Further there is an ongoing project that in addition will make "Meter reading profiles" (enumeration).
- Added elements (Ove to update the BRS):
 - Meter / Measurement Granularity;
 - Definition: "The actual measurement intervals of the meter, such as 15 minutes or monthly".
 - Meter / Switchable by tone frequency;
 - Definition: Indication that the meter has a tone frequency receiver.
 - Meter / Meter technique;
 - Definition: A code indicating what kind of technique is used in the Meter.
 - Meter / Number of Registers;
 - Definition: Number of Registers available in the Meter.
 - Register / "Number of decimals";
 - Definition: the number of decimals in the read of the register.
 - Communication unit;

- Definition: A communication unit connected to a Meter that communicates metered data to a Metered Data Collector.
 - Communication unit / Identification;
 - Definition: The identification of the Communication Unit.
 - Communication unit / Type;
 - Definition: The type of Communication Unit.
 - Converter;
 - Definition: A unit that convert the voltage and/or current in order to enable measurement with a factor.
 - Converter / Identification;
 - Definition: The identification of the Converter.
 - Converter / Type;
 - Definition: The type of Converter.
- Removed elements (Ove to update the BRS):
 - Quality Class.
- Renamed elements (Ove to update the BRS):
 - “Number of digits” was Renamed to “Number of integer digits”.

During the meeting a mail was sent to Gordon, asking for UK Meter characteristics, with the following answer:

There is some master data defined for all types of equipment that could be used in a metering job. Values include:

BOX	Outside Meter Box
BYPAS	Meter Bypass
CONVR	Converter
IHD	In Home Display
INSKT	Installation Kit
METER	Meter

And some additional new ones which are coming along for Smart.....

CHF	Comms Hub
PPMID	Prepayment Meter Interface Device
ESME	Electricity Meter
GSME	Gas Meter
HALCS	Heating Auxillary Load Control Switch
SHOE	Hot Shoe
GPF	Gas Proxy Function

Alignment of the information from Gordon will be put on the next CuS agenda.

Information from after the meeting:

ETC had found a common way of specifying conditions in State diagrams (use of Signals - similar to usage of Guards in activity diagrams), i.e.: “We will in the future use guards. To add a guard, click at the transition and add the guard-text between square brackets, e.g. [Yes]”.

The addition of new gas elements, see “Belgian-German Gas Group homework in Appendix D (Forwarded from ETC meeting April 15th), was postponed due to lack of time.

To be continued next meeting.

Action:

- Ove will update the BRS and distribute it for review at next CuS meeting

Updated BRS can be found at: [Documents for review at CuS meeting October 2015](#)

8 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). However the item was postponed due to lack of time.

Updated BRS can be found at: [Documents for review at CuS meeting October 2015](#)

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

Due to lack of time, the item was postponed.

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

Postponed until Belgium is present.

11 Discussion with GS1 (Tuesday afternoon)

Hein Gorter de Vries, dir. Innovation at GS1 NL, joined CuS in the evening of the first day.

Kees showed the PowerPoint presentation "IEC and ebIX®/ENTSO-E", as an introduction to the item. Among others the Common Grid Model (CGM = CIM-model) is connected to several areas, such as Asset management and Market. However these areas use different ID schemes, i.e. the Market uses GS1, EIC etc. and the CGM uses UUID.

Thereafter Hein presented the GS1 & the relation to the energy sector:

- Kees mentioned some examples where non-standard identification schemes are starting to give problems in Europe:
 - REMIT requires data from parties and objects in the grid from all over Europe, and need a common identification scheme in all European countries;
 - TenneT communicates between the Dutch and German part of TenneT, and also with the "DSOs connected to the TenneT grid", and also in some cases, with DSOs connected to "DSOs connected to the TenneT grid";
- Gerrit stressed that the first task should be to find the objects that need a common European identification scheme. The ebIX® organisation is however not large enough to be able to influence a common European identification scheme;
- The use of UUID for the Common Grid Model may be fine for the physical objects (assets) in the grid, but when these objects are needed in the market-communication, e.g. a production plant, another identification scheme is needed;
- Hein proposed to establish a project together with GS1 Europe, which consist of 45 countries (The EU countries and additional eastern European countries);

- Kees informed that the usage of identification schemes has been discussed within TenneT and that they have decided that they cannot accept an identification scheme that has significance in it;

Conclusion:

- There was no specific action from after the discussions. However, it was agreed that GS1 and eBIX® will continue the contact and inform each other if any projects turns up.

12 BRS for alignment of Consumer master data

Due to lack of time, the item was postponed.

13 Request change of attributes connected to a MP

Due to lack of time, the item was postponed.

14 Combined grid and supply billing

Ove had as homework from previous meeting made a first draft BRS for Combined grid and supply billing. However, the item was postponed, due to lack of time.

Updated BRS can be found at: [Documents for review at CuS meeting October 2015](#)

15 Review preparations on the interfering processes

Due to lack of time, the item was postponed.

16 Meeting schedule

- Tuesday October 6th and Wednesday October 7th Norway.
 - Agenda items:
 - “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.
- Tuesday December 1st and Wednesday December 2nd Denmark.

17 AOB

17.1 Vendor participation in eBIX®

Gerrit has got a request form CGI for participation in the CuS group. Earlier (ten years ago and more), eBIX® had up to two vendors in each project group. Later, when more vendors wanted to participate, the eBIX® Vendor group was created. However, due to lack of interest after some years, the Vendor group was put on hold.

Action/conclusion:

- It was decided to invite CGI to CuS for a period of one year. Thereafter the participation will be evaluated.

17.2 eBIX® BIMs

Ove had some questions regarding the Business Choreography View for change of supplier:

eBIX®/CuS

- There is always one realization for each business collaboration. There is no Realization on the transaction level.
- We keep on using the Affected role in the Choreography View, when needed
- The UseCase descriptions is normally a copy of the related table in the BRS, but possible “internal process descriptions” should be removed.
- The current Change of Supplier class diagram is OK

Ove also noted that the ebIX® profile has some illegal code names (not UTF-8 compliant):

- VSE, Verband Schweizerischer Elektrizitätsunternehmen
- SVK, Svenska Kraftnät

Kees informed that the problem has been solved within Eclipse.

17.3 Information

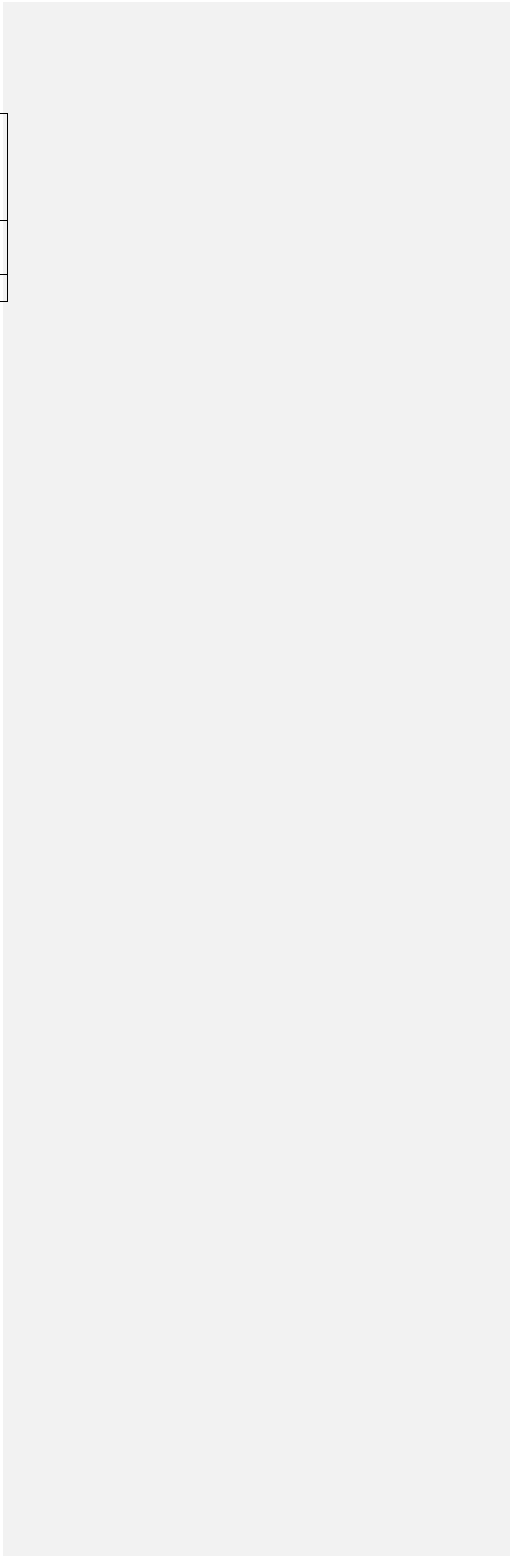
Gerrit informed that the change of his work area within ESDN is going on and he will have to withdraw as convenor of CuS in the autumn. Similar ebIX® Forum has to find a new convenor.

Gerrit also informed that Fedder has suggested to close down tWG (due to lack of interest and support from ENTSO-E, and that he (Gerrit) had replied that tWG is important and currently is having some valuable tasks on the table.

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 Member list

Members:

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It is expected that cc receivers are reading the CuS minutes and actively respond 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 C Inventory of relevant CuS downstream processes

CuS and EMD have been asked by ebIX® Forum to make inventories of relevant downstream processes (both the ones currently modelled and missing processes).

Process	Description
Existing CuS processes	
Change of Supplier	
End of supply	
Customer move (move in, move out)	
Change of Balance Responsible Party	
Change of Metered Data Responsible	
End of Metered Data Responsible	
Change of Transport Capacity Responsible	
Alignment of Metering point (MP) characteristics	
Alignment of Meter characteristics	
Alignment of Party characteristics	Includes both actors in the energy industry Customers and third parties
Upfront request for Metering Point Characteristics	
New processes within the “CuS domain”	
Switch of grid	E.g. a part of a Metering Grid Area (MGA), such as a village, that is transferred to another MGA, may be with another Grid Access Provider (GAP)
Exchange and update of master data for domains	Such as which MGAs that belongs to a Market Balance Area (MBA) and related characteristics of these domains
New processes for “demand/response”	Including new tasks for the Metered Data Aggregator (MDA)
Exchange and update of master data for parties	Both for the actors in the energy industry, such as Balance responsible Parties (BRP) and Balance Suppliers (BS), and the Party Connected to Grid (PCG = Customer). The process includes handling of the different attributes related to the Consumer, such as Consumer contact information (e.g. address and invoice address).
Request change of attributes connected to a MP	Including closing and reopening MPs, Change of Metering Method and Change of time frames
Combined grid and supply billing (invoicing)	Including master data for products, such as; grid fees, grid subscriptions etc.
Bulk change of MP-party	Such as change of BRP in a MGA, “Price Area” or country (not at MP level)
Request for services	The item concerns chargeable requests from the BS to the Distribution System Operator (DSO) for changes to a MP or a Meter, such as a request for metered data
Processes for labelling	May for instance be enhancement of existing processes or new processes related to exchange of el-certificates

Process	Description
Tasks related to enhancement of existing processes	
MPs having multiple parties with similar roles	Such as a MP with different BRPs for production and consumption
"Life cycle of a MP"	Including how technical events interact with administrative processes and handling of "Installation MPs" and/or fields
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
Efficient data alignment	Including the possibility to request historical and/or future master data
The possible role of a datahub in the processes	<p>When introducing a datahub in a market, the datahub will replace the DSOs, to a large extend, i.e. the metering point Administrator (MPA) will be the datahub. Among others, the proposal include processes between the GAP and the MPA. The processes my differ depending on the view:</p> <ul style="list-style-type: none"> • Seen from the supplier side • Seen from the DSO side • Seen from the metering side

Appendix D Belgian-German Gas Group homework

You will find hereunder the result of the Belgian-German homework following last ebIX® gas group.
We succeeded to find a common list of attributes used by both countries (transmitted to the market) and in addition of this we have some German attributes more.

Business Entities classes:

		BE	DE
Meter Type (= Meter Characteristics)			
Name	Description		
Meter Display Technology	Technology used to display the information for the user: mechanical, electronic, multi-line display	v	v
Meter Installed Functionality	Functionality activated on meter, i.e. budget or metering	v	v
Meter Purpose	Purpose of the meter in a meter installation, i.e. main / check	v	v
Metered Data Collection Method (earlier Meter Reading Characteristics)	A code used for the type of communication between a meter and the Metered data collector, i.e. automatic meter reading, manual, 2-way, 1-way	v	v
Meter Type	Type of meter, i.e. Budget, Usual, Smart, PPM	v	v
Type of the Meter	Germany values: <i>Diaphragm/bellows meters</i> <i>Rotary meters</i> <i>Turbine meters</i> <i>Orifice meters</i> <i>Ultrasonic flow meters</i> <i>Coriolis meters</i> <i>Vortex Flow Meter</i> <i>Individual Setting</i>	<i>Found in the Meter Administrator's DB, but not exchanged.</i>	v
Dimension of the meter	Indicate which dimension (for gas) the meter has (e.g. G10, G25, G4,...)	in Belgium we preferred to put the maximal debit in the "installed power" e.g. G4 = 6m ³ /h	v
Attribute of the meter	For definition ask to Germany Possible values: <i>Z01 EDL40</i> <i>Z02 EDL21</i> <i>Z03 sonstiger EHZ</i>		v
Type of fixation	For definition ask to Germany Possible values: <i>BKE Stecktechnik (Befestigungs- und Kontaktierungseinrichtung) =Connector</i> <i>DPA 3-Dreipunktaufhängung = Three-Point Connection</i> <i>HUT Hutschiene = top hat rail</i> <i>Z31 Einstutzen-Zähler = Single-Pipe Meter</i> <i>Z32 Zweistutzen-Zähler = Double - Pipe Meter</i>		v

Corrector	For definition ask to Germany Possible values: DMU Dichtemengenumwerter = density corrector TMU Temperaturmengenumwerter = temperature corrector ZMU Zustandsmengenumwerter = Volume corrector		v
Register Characteristics			
Name	Description		
Calculation Type	Type of calculation performed on volumes. Types are compensation, valorization. Only needed in case of decentralized production.	v	v
Direction	The direction of the energy being measured in relation to the network it is connected to, i.e. consumption, production	v	v
Load Profile	A code defining the standard load profile.	v	v
Measuring Method	Method used to store the measures, cumulative / non-cumulative	v	v
Multiplication Factor	A factor with which the registered value needs to be multiplied with	v	v
Number of Digits	The number of digits configured on the register. Specified as a combination of total and after the decimal point, or the number before and after the decimal point.	v	v
Reporting_Base	An indication to inform about the source of the reported values. Two values are foreseen: virtual and measured.	v	v
Time of Use	The Time of Use / Timeframe during which a value is registered	v	v
Register Type			
Name	Description		
Incrementation Type	Way of cumulating registered values, i.e. cumulative, non-cumulative	v	v
Measured Energy Type	The identification / type of energy being measured, i.e. active energy, active power, ...	v	v
Metering Method	The method used for metering, such as continuous, non-continuous or not metered.	v	v
Unit of Measure	A unit of measure defining the accumulated reactive energy equal to one kilovolt ampere of reactive power per hour (CEFACT rec20_rev4E_2006.xls)	v	v

Belgian reference: [https://model.atrrias.be/umig6/?refid= 17 0 2 2 b9402f1 1358765004378 48258 68382](https://model.atrrias.be/umig6/?refid=17_0_2_2_b9402f1_1358765004378_48258_68382)

Appendix E German needs for Meter attributes - homework from Joachim

Data/Group	Attributes	ebIX® scheme	Status
Ausleseart des Zählers	- Analog - elektronisch	Meter data Collection method	OK
Nächste Turnusmäßige Ablesung	Datum oder Periode	Not in ebIX®: next frequency reading	"Meter / Measurement Granularity" were added to the model
Identifikationshinweise	Freitext	Placement information	OK
Zählpunkt		Metering point ID	OK
Spannungsebene der Lieferstelle	- Höchstspannung - Hochspannung - Mittelspannung - Niederspannung - Hös/HS Umspannung - HS/MS Umspannung - MS/NS Umspannung	Voltage Level Code	OK (Voltage level of the MP)
Druckebene der Entnahme	- Hochdruck - Mitteldruck - Niederdruck	Pressure Level (Code)	OK
Spannungsebene der Messung	- Höchstspannung - Hochspannung - Mittelspannung - Niederspannung	Not in ebIX®: Voltage Level Code of measuring	OK (Voltage level of the Meter)
OBIS Kennzahl		Register (OBIS)	OK
Geräteart	- Zähler - Mengenumwerter	Meter (Type)?	OK, but new enumerations must be added to the "Meter / Type"
Vor- und Nachkommastellen des Zählwerkes	- Angabe der Vorkommastelle - Angabe der Nachkommastelle	Register number of digits? (not real)	<ul style="list-style-type: none"> • "Number of decimal Digits" was added • "Number of digits" was Renamed to "Number of integer digits"
Lokale Kennzeichnung des Zählwerkes (zu Kontrollzwecken)	- Bezeichnung des Zählwerkes auf dem Gerät	Register identification	OK
Schwachlastfähigkeit	- Nicht-Schwachlast fähig - Schwachlast fähig	Not in ebIX® model	"Switchable by tone frequency" was added
Zählertyp	- analoger Haushaltszähler - analoger Wechselstromzähler - Lastgangzähler - Maximumzähler - Drehkolbengaszähler - Balgengaszähler - Turbinenradgaszähler - Ultraschallgaszähler - Wirbelgaszähler - Messdatenregistriergerät	Meter type	"Meter technique" was added

	<ul style="list-style-type: none"> - EHZ elektronischer Haushaltszähler - IVA Individuelle Abstimmung (Sonderausstattung) - EDL40 - EDL21 - sonstiger EHZ 		
Zählergröße (Gas)	<ul style="list-style-type: none"> - Gaszähler G10 - Gaszähler G100 - Gaszähler G1000 - Gaszähler G16 - Gaszähler G160 - Gaszähler G1600 - Gaszähler G2.5 - Gaszähler G25 - Gaszähler G250 - Gaszähler G2500 - Gaszähler G4 - Gaszähler G40 - Gaszähler G400 - Gaszähler G4000 - Gaszähler G6 - Gaszähler G65 - Gaszähler G650 - Gaszähler G6500 	Not in ebIX® further Meter type attributes gas-flow	OK – (MP Physical capacity)
Gerätenummer	-	meter identification	OK
Tarifzahl	<ul style="list-style-type: none"> - Eintarif - Zweitarif - Mehrtarif 	Not in ebIX®	“Number of Registers” was added
Energierichtung	<ul style="list-style-type: none"> - Einrichtungszähler - Zweirichtungszähler 	Metering Point Type Code?	Derived from the OBIS codes of the Registers, hence not used within ebIX®
Befestigungsart Zähleinrichtung	<ul style="list-style-type: none"> - Stecktechnik - 3-Dreipunktaufhängung - HUT Hutschiene - Einstutzen-Zähler - Zweistutzen-Zähler 	Not in ebIX® mounting	<p>“Wall Mounting System”</p> <p>For the time being not used within ebIX®, i.e. German speciality</p>
Messwerterfassung am Zählpunkt	<ul style="list-style-type: none"> - fernauslesbare Zähler - manuell ausgelesene Zähler 	Not in ebIX® data collection – remote reading or manual	This capability of the Meter is supposed to be included in the Meter Type.
Wandler	- Identifikation	Meter identification (converter)	“Converter / Identification” was added
Wandlertyp	<ul style="list-style-type: none"> - Messwandlersatz Strom - Kombimeswandlersatz (Strom und Spannung) - Blockstromwandler - Messwandlersatz Spannung 	Not in ebIX® converter types	“Converter / Type” was added

Wandlerfaktor	-	Not in ebIX® converter factor	"Converter / Constant" was added
Mengenumberter	- Identifikation	Meter identification (volume corrector)	OK (Meter ID)
Mengenumbertertyp	- Dichtemengenumberter - Temperatur- mengenumberter	Not in ebIX® volume corrector type	OK (Meter Type)
Kommunikationseinric htung	-	Meter identification (Communicator)	"Communication Unit / Identification" was added
Kommunikationseinric htung styp	- GSM/GPRS/UMTS/ LTE- Kom.-Einr. - Ethernet-Kom.-Einricht. LAN/WLAN - PLC PLC-Kom.- Einrichtung - Festnetz-Kom.-Einricht. TAE	Not in ebIX® type of communicator	"Communication Unit / Type" was added
Steuereinrichtung	- Identifikation	Meter identification (Switching pulse receiver)	The ability is available as "Switchable by tone frequency", i.e. not added to the ebIX® model
Technische Steuereinrichtungstyp	- Rundsteuerempfänger - Tarifschaltuhr	Not in ebIX® type of Switching pulse receiver	The ability is available as "Switchable by tone frequency", i.e. not added to the ebIX® model
Lieferstelle Anschrift	- Ortsteil, Straße u. Hausnummer od. Postfach, Ort, PLZ, Land	Meter address	Not OK – The MP Address is a part of the MP characteristics and not added to the Meter characteristics
Messstelle	- Ortsteil, Straße u. Hausnummer od. Postfach, Ort, PLZ, Land	Meter address?	OK (Meter Address)
Lieferant	- MP-ID	Balance Supplier (BS)	Not OK – The MP Party (BS) is a part of the MP characteristics and not added to the Meter characteristics
Messdienstleister	- MP-ID	Meter Data Collector (MDC)	Not OK – The MP Party (MDC) is a part of the MP characteristics and not added to the Meter characteristics
Messstellenbetreiber	- MP-ID	Meter Operator (MO)	Not OK – The MP Party (MO) is a part of the MP characteristics and not added to the Meter characteristics

Appendix F Mail exchange regarding gas production code list

FYI
Kind regards

Thibaut

From: Mike CONROY [<mailto:m.conroy@universretail.com>]
Sent: lundi 4 mai 2015 11:09
To: Thibaut Hellin
Cc: Dombard Cédric
Subject: RE: Edig@s Contact Form - Gas production code list

Hi again,
Sorry for the holdup but I have been asking questions on your behalf and I'm afraid that I don't have any really good news.

The Edig@s workgroup is not currently working in this area and has had to date no requirements expressed by its members for any work to be done.

Might I suggest that you contact Cédric Dombard of Fluxsys if you wish to move this any further.

Sorry that I couldn't give you any further information

Regards

Mike

De : Thibaut Hellin [<mailto:thibaut.hellin@atrias.be>]
Envoyé : jeudi 2 avril 2015 13:31
À : Mike CONROY
Objet : RE: Edig@s Contact Form - Gas production code list

Good afternoon,

There is not a single process that leads to the exchange of Technical Master Data but several (Supplier switch, Move-In,...).

But I can give you the link to the Business Class Diagram that represents the exchanged elements within the Technical Master Data. You can find it here:

<https://model.atrias.be/umig6/?refid= 17 0 2 2 b9402f1 1358765004378 48258 68382>

You have in the center of this diagram the BE-MPDecentralizedProduction class with 4 attributes:

- Type Of Decentralized Production (mandatory to provide it if there is a local production)
- Installed Power (mandatory to provide it if there is a local production)
- Converter Power (optional: only applicable for electricity local production)
- Commissioning date (mandatory to provide it if there is a local production)

I also provide you in attachment the code list we foresee to use for electricity local production. This comes from EECs and AIB. We will only use the "Technology" part of this document.

Don't hesitate if you have any other question

Kind regards

Thibaut Hellin

From: Mike CONROY [mailto:m.conroy@universretail.com]
Sent: mardi 31 mars 2015 17:15
To: Thibaut Hellin
Subject: RE: Edig@s Contact Form - Gas production code list

Hallo again,

Would it be possible to provide us with some process flows which situate your requirements along with the sort of values you would be expecting. With that we can try and look into it and see if we can do something at our coming meeting.

Regards
Mike Conroy
Edig@s Secretariat

De : Thibaut Hellin [mailto:thibaut.hellin@atrias.be]
Envoyé : mardi 31 mars 2015 11:29
À : Mike CONROY
Objet : RE: Edig@s Contact Form - Gas production code list

Dear Mr Conroy,

We foresee in Belgium to implement a new MIG (Message Implementation Guide) for the energy market. This new MIG will take smart metering and decentralized productions into account and will permit more interactions between the different market parties. Developing the concept of decentralized productions means that we will have to exchange more Technical Master Data about these decentralized productions: type, power, ... For the electricity decentralized productions we will use the Production Technologies code list developed by EECS. For gas we received from one Belgian DGO the question about which codes will be used as they intend to also have Gas production access point (with the development of local biomethanation installations). After a few searches we didn't found any international standardized code list and that's why I sent you this mail to check if you eventually had such a code list.

I hope these explanations will clarify our needs.

Kind regards

Thibaut Hellin
Process Information Manager – Market processes
Thibaut.hellin@atrias.be
Tel : +32 (0) 476/52.07.78

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Field Code Changed

Formatted: Norwegian (Bokmål)

Formatted: Norwegian (Bokmål)



Galerie Ravenstein - Ravensteingalerij 3 b6
1000 Bruxelles - Brussel

From: Mike CONROY [mailto:m.conroy@universretail.com]
Sent: mardi 31 mars 2015 11:01
To: Thibaut Hellin
Subject: RE: Edig@s Contact Form

Dear M. Hellin,
There is currently no requirement within the Edigas environment to have a codelist for different gas types. Consequently no such codelist exists.
I wonder if you could inform me where you intend using such a codelist and which Edigas messages you eventually envisage its use.

If you have any further questions please don't hesitate in contacting me.
Regards
Mike Conroy
Edig@s Secretariat

De : noreply@edigas.org [mailto:noreply@edigas.org]
Envoyé : mardi 10 mars 2015 14:36
À : m.conroy@universretail.com
Objet : Edig@s Contact Form

Edigas.org Contact form:

Name: Hellin Thibaut
E-mail : thibaut.hellin@atrias.be
Message : Good afternoon,
I'm looking for a codelist containing the different gas "production" type (from extraction, from biomethanation,...) in the same way than what we have for electricity production (PV, windturbine, stirling engine,...). Do you have such a code list available?
Thanks in advance for you answer

Kind regards

Thibaut Hellin

Best Regards,

Edig@s Form Manager

Date/Time: 10 March 2015 13:36
Remote IP: 194.78.185.246
Form: <http://www.edigas.org/edigs-contact/>

Appendix G 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																
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)

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
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	nBS	GAP			na	No	No	Yes	No	No		
ID	na	na	na	na	BS	GAP			na	No	No	na	No	No		
Metering Point characteristics																

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
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		
Metered data collection method	GAP	GAP/ BS	GAP	GAP/ MDR	GAP	GAP			Yes	Yes	No	Yes	No	Yes		

¹¹ for smart meter Supplier may ask to go from meter regime 1 (non continu) to meter regime 3 (continu)
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
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				