

Minutes ETC meeting, October 17th and 18th, 2017	 European forum for energy Business Information eXchange
October 24 th , 2017	ETC – ebIX[®] Technical Committee

Minutes ETC meeting, October 17th and 18th, 2017

Date: Tuesday and Wednesday October 17th and 18th, 2017

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

Place: Tivoli Hotel & Congress Center, Copenhagen

Present: Christian Odgaard, Energinet
Jan Owe (Convenor), Svenska kraftnät
Jari Hirvonen, Fingrid (Wednesday)
Kees Sparreboom, TenneT (Wednesday)
Ove Nesvik (Secretary), EdiSys

Appendices: **Appendix A**, Participants in ETC

Appendix B, ebIX[®] Rules for the use of UN/CEFACT Modelling Methodology (UMM 2)

Appendix C, ebIX[®] Rules for addressing (routing)

Appendix D, Agreed additions to the ebIX[®] Business Information Model 2018.A

Appendix E, MDS proposals to ETC for update of the ebIX[®] Business Information Model



ebIX

Attachment: recommendations for ETC See item 3, Follow up on versioning discussion at previous meeting



Business Reason
Codes and Documents

See item 7.2, MDS requests for new and updated enumerations

(Double click on the icon above to see the presentation or right click to edit)

1 Approval of agenda

The agenda was approved with the following additions:

- Update of CIM, see item 4.3

2 Minutes from previous meetings

The minutes from previous meeting was approved.

3 Follow up on versioning discussion at previous meeting

The “ebIX® recommendations for versioning” was reviewed and some spelling errors were corrected together with addition of some clarifying text. See attached document in the header of these minutes.

The recommendation will first be used for a year or so, before publication of the document. The document is not complete/stable yet and still at some places too vague. We basically only solved the versioning of code lists. And we did a first attempt for the <<MA>>, which could be enough for ebIX <<MA>> but not yet complete and final enough for national versions.

Action:

- All are asked to review the “ebIX® recommendations for versioning” before next ETC.

4 Status and continuation of ebIX®/IEC project

4.1 Evaluation of cooperation with IEC

Jan’s presentation to ebIX® Forum, ref. action Item 2016b-02 from ebIX® Forum autumn meeting 2016, was reviewed and a few spelling errors were corrected. The item is closed.

4.2 ebIX® and IEC TR questions – WG14 issues

Suggestion from previous meeting:

- We will consider to skip the collected data, the physical characteristics of a MP and Metering Configuration Characteristics, at least for the near future, to avoid dealing with WG14, i.e. to concentrate on WG16 issues.

Kees and Ove had, as action from previous meeting, brought the suggestion above to MDS, who was against skipping the collected data, the physical characteristics of a MP and Metering Configuration Characteristic from the ebIX® model.

In addition, almost all the proposed changes have been accepted by WG14, see item 4.3.

The suggestion will not be added to Jan’s presentation for the ebIX® Forum. The item is closed.

4.3 Update of CIM

At the WG14 discussion September 27th, where Jan and Fedder joined, the result was that most of the suggested changes were approved. I.e.:

- an attribute “ValueMissing” will be added to the class Reading (WG 14 saw other use of such an information)
- and “Position” will be added to Reading
- a “disconnectedMethod” will be added to UsagePoint
- “physicalConnectionCapacity” will be added to UsagePoint. Related to that we discussed the need of a new datatype with “decimal plus unit” – was discussed in WG16 the following week and resulted in just using datatype “decimal”
- StreetAddress will be added to Language
- FloorIdentification will be added to StreetDetail

Beside the possible of a new datatype with “decimal plus unit” (i.e. a UN/CEFACT Recommendation-based unit together with a decimal), the possible new class Category was to be discussed at the following WG16 call. That class would then be part of the WG16 part of CIM, however associated both to Meter and UsagePoint. I.e. it could then be used for our need of a “VoltageCategory” (and a PressureCategory for gas).

However, the result of the WG 16 call was not to add a class “Category”, but to suggest an attribute “Connection Category” added to both UsagePoint and to Meter. Latest status:

WG14 ebIX model requests				
Item #	Class	Attribute	Description	Discussion Status
1	Reading	position (Integer)	A sequential value representing the relative position within a given time interval.	Accepted - WG14 Modeling Call
2	Reading	valueMissing(Boolean)	The indication of whether or not the quantity of this reading is missing.	Accepted - WG14 Modeling Call
3	UsagePoint	Disconnection Method(String)	The Disconnection Method is an indication of how the usage point is physically connected or disconnected.	Accepted - WG14 Modeling Call
4	UsagePoint	physicalConnection Capacity(Decimal)	Quantitative information about the maximum physical capacity of the connection for the usage point.	Accepted - WG14 Modeling Call (waiting on WG16 to define dataType)
5	StreetAddress	language(String)	The language in which the address is specified, using ISO 639-1 two digit language code.	Accepted - WG14 Modeling Call
6	StreeDetail	floorIdentification(String)	The identification by name or number, expressed as text, of the floor in the building as part of this address.	Accepted - WG14 Modeling Call
7	UsagePoint	Connection Category(String)	A code used to specify the service category, e.g. low voltage, where the usage point is defined.	Results of WG16 discussion - discuss with WG14
8	Meter	Connection Category(String)	A code used to specify the service category, e.g. low voltage, where the meter operates.	Results of WG16 discussion - discuss with WG14
9	Register	New association to UsagePoint (or MarketEvaluationPoint)		Results of WG16 discussion - discuss with WG14

At the next WG 14 call, the items 4, 7 and 8 where agreed, the remaining issue (item 9) is expected handled next week. The item was closed.

5 Resolve matters from latest ebIX®, EFET and ENTSO-E HG

The HG agenda was reviewed. There are no action items to be resolved, except for the review of the Metering Point Gateway and Gateway Operator, see item 6 below.

6 Review of updated HG MR for “MP Gateway”

The HG MR for Metering Point Gateway and Gateway Operator was reviewed after update by MDS.

Conclusion:

- ETC propose asking Vlatka Cordes (Westnetz) and Dominik Wagner (50Hz) to join the MDS meeting in Berlin in November, for a presentation of Gateways in Germany and verification of the MR.¹

7 ebIX® Business Information Model 2018.A

7.1 Continue review and update of version 2018.A

The proposed updates in Appendix D were reviewed and the first part of the proposals were updated in the ebIX® model, i.e.:

- 1) Change the cardinality of the association from “Master Data MP Event” to “Metering Point Address” to [0..*]
Status:
 - o Changed
- 2) Add a language attribute to “MP Address”
Status:
 - o Added
- 3) Add Aggregated Reception Station (ARS), as an ASBIE, with XOR between the ARS and Calorific Value Area (CVA)
Status:
 - o Added, however without the XOR dependency
- 4) Add CVA, as an ASBIE, with XOR between the ARS and CVA
Status:
 - o Added, also without the XOR dependency
- 5) Rename MP Characteristics class to MP Administrative Characteristics
Status:
 - o Renamed
- 6) Add MP Physical Characteristics, containing:
 - a. Connection Status (Moved from MP Administrative Characteristics)
 - b. Disconnection Method
 - c. Capacity of Metering point (Moved from MP Administrative Characteristics)

¹ Note after the meeting: First a mail will be sent to Joachim Schlegel (Westnetz) asking him to prepare a more detailed presentation regarding the issues.

- d. Voltage Level (Moved from MP Administrative Characteristics)
- e. Pressure Level (Moved from MP Administrative Characteristics)

Status:

- o Added

7) Add Capacity of Metering point

a. Definition:

Capacity of a Metering point is the maximum physical capacity of the Metering Point.

For electricity the maximum capacity for the Metering Point is given in kW or MW and calculated from the nominal voltage level, number of phases and current limitations.

For gas the maximum capacity for the Metering Point is given in m3/hour, usually determined by the physical constraints of the (nozzles in the) Meter.

Status:

- o Added

8) Add a new ABIE Energy Label, with two BBIEs; Technology Type and Fuel Type

Status:

- o Added

9) Add BDT for Energy Label Fuel

Status:

- o Added

10) Rename BDT Energy Generation technology Type to Energy Label Technology Type

Status:

- o Added

11) Add an BBIE “number of phases” to MP Physical Characteristics

Status:

- o Added, but renamed to “Fuse Value”

7.2 MDS requests for new and updated enumerations

See requests in Appendix E.

Continued action:

- Kees will add the codes in bold in the table in “Appendix E” to a new code list “Contact Function Code” in the ebIX® model (new BDT, assembled code list, ebIX® subset).

Kees had as action from previous meeting asked UN/CEFACT for two new codes, which have been approved:

CU Customer contact The main department/person to contact at the customer

MA Meter access contact Department/person to contact for matters regarding meter reading, including access to the Meter

Ove had as action from previous meeting made a proposal for clean-up of all Business Reason Codes and Document Name Codes. The document was reviewed and harmonised with the current usage of codes in

Denmark. Norway and Sweden. During the review, the following spelling errors were found and corrected:

- Document Name Code: “E75 Notification from Imbalance Settlement Responsible” (an “e” to much)
- Document Name Code: “433 Notification to grid operator of metering point changes” (missing “a”)
- Business Reason Code (Subset); “E05 Change MP characteristics” (missing “i”)

Action:

- All are asked to review the list of Business Reason Codes and Document Name Codes, and mark codes marked for deprecation used nationally (see attached document in the header of this document).
- MDS will be asked to prioritise making BRs for:
 - o Close down (demolition) of MP, sent from GAP to MPA to BS
 - o Request- and response update Metering Point party

7.3 How to represent the exchange of calorific value in ABIEs

The item was postponed.

Continued action:

- Kees to come up with a proposal for how to represent the exchange of calorific value in ABIEs.

7.4 QA of the ebIX® model

The item was postponed.

Continued action:

- Jan will find topics to be discussed related to how to organise, maintain and develop the ebIX® model in a better way. The item will be put on the next ETC agenda.

7.5 Code lists

The item was postponed.

Continued action:

- Kees will replace the ACCs, BCCs etc. in the current CEFACT Profile with the “CEFACT Profile_Recast.mdzip” from Belgium;
- Kees will add generalisation from the “ebIX® assembled code list” to the related Belgian code list, received from Thibaut during the meeting.

7.6 Use of XOR in combination with cardinalities

The item was postponed.

Continued action:

- Kees will make a proposal for update the “ebIX® introduction to Business Requirements and Information Models” with a chapter explaining the relationship between cardinalities and OR/XOR, including:

- o XOR and cardinality of [1] lead to a required choice in the XML schema
- o XOR and cardinality of [0..1] lead to an optional choice in the XML schema

7.7 Magic Draw version 18.2, ebIX® model 2018.A, ebIX® “standard messages”, etc.

The item concerns usage of stereotype “Message Assembly” in relation to the TT.

The item was postponed.

7.8 “Time of Use” vs “Meter Time Frame”

The item was postponed.

8 ebIX® Rules for the use of UN/CEFACT Modelling Methodology (UMM 2)

The item was postponed.

See question from Belgium in Appendix B.

9 MDS BIMs

The item was postponed.

Review of MDS BIMs, see [ETC documents for review](#) :

- BIM for Change of Transport Capacity Responsible Party
- BIM for End of Metered Data Responsible
- BIM for Customer move
- BIM for Change of Metered Data Responsible

Review of mapping of MP linked to “Async Additions”.

10 Update of ebIX® position related to addressing in business documents

The item was postponed.

See Appendix C, ebIX® Rules for addressing (routing).

Continued action:

- All are asked to read the Belgian “[Position paper MIG6 B2B communication v3.4.pdf](#)” and come up with ideas on how to continue.

11 Code lists from Magic Draw model in Word format

The item was postponed.

Continued action:

- Kees will clean up the generated Excel code list and publish it on the ebIX® web site.

12 Planning for support for new countries that want to use the ebIX® model

The item was postponed.

Continued action:

- Thibaut will remove Belgian specialities from the Belgian “MagicDraw user guide for ebIX® models” before next ETC.

13 Status for update of the TT (Transformation Tool)

The item was postponed.

14 Creation of an ebIX® technical presentation

The item was postponed.

Homework from earlier meetings:

- Jan will review the technical ebIX® PowerPoint presentation shown in Warsaw last November and thereafter distribute it to the rest of ETC before the next meeting in October 2015.

15 Status for UN/CEFACT project for Alignment of Master Data for Metering Point and of Measured Data

The item was postponed.

16 Next meeting(s), including start and end time.

- Tuesday and Wednesday December 12th and 13th, Stockholm
- Wednesday and Thursday January 24th and 25th, Warszawa or Oslo

17 AOB

No items.

Appendix A Participants in ETC

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Appendix B ebIX® Rules for the use of UN/CEFACT Modelling Methodology (UMM 2)

Question from Thibaut regarding the tags ebIX used on <<ENUM>> stereotype:

In the document “**ebIX® Rules for the use of UN/CEFACT Modelling Methodology (UMM) version 2**” it is written the following:

UN/CEFACT has specified profiles to be used as the meta model for UMM2:

- UMM Base Module
- UMM Foundation Module
- UML Profile for Core Components

ebIX® has additionally specified a profile.

On page 27 we find the different available/used tags for the stereotype <<ENUM>>

(® Rules for the use of UN/CEFACT Modelling Methodology (UMM) version 2 page 27)



But I find nowhere in UMM documentation anything about these tags for <<ENUM>>. The only information I found about <<ENUM>> was in the document “**UML Profile for Core Components (UPCC) – Version 1.0 – Final Specification - 2008-01-16**” but there not any tag is mentioned.

5.1.6 ENUM

Stereotype	ENUM			
Base Class	Enumeration (from UML 1.4.2 / 2.0 meta-model)			
Parent	N/A			
Description	The ENUM (Enumeration Type) represents an enumeration type. The ENUM stereotype is used to define a restriction on either a content- or supplementary component of a QDT.			
Tag Definitions	Tag Definition	Type	Multiplicity	Description
	N/A			

5.1.7 CodelistEntry

Stereotype	CodelistEntry			
Base Class	EnumerationLiteral (from UML 1.4.2 / 2.0 meta-model)			
Parent	N/A			
Description	The CodelistEntry is used to stereotype entries of an enumeration with stereotype ENUM.			
Tag Definitions	Tag Definition	Type	Multiplicity	Description
	CodeName	String	0:1	The CodeName carries the name of a certain code (like "France" in a country code list).

So I wanted to know where does these tags comes from as some of these are unknown in UPCC nor UMM2 profile in EA Sparx and I must have a good reason to ask to SparxSystems to adapt these profiles to what we have developed with ebIX®.

Response from Ove:

I do believe these tags are used by the TT. I also agree that the usage should be added to the "ebIX® Rules for the use of UN/CEFACT Modelling Methodology (UMM) version 2". I will add the topic to the next ETC agenda.

Response from Thibaut:

Indeed, these values are used for the TTool but I assume that these tags are coming from somewhere in UN/CEFACT.

In Naming and Design Rules v3 it is specified that Code list XSD must have as file name <Code List Agency ID>_<Code List ID> (unique ID) _<Version ID> so, means that we need this information for the code list inside the model... but I did not found any place where it is mentioned where we have to place this information for an code list (under a specified stereotype or not?)

[R 8A68]	A Code List XML Schema File MUST be created to convey code list enumerations for each code list being used.	1
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Page 36 of 217

XML Naming and Design Rules V3.0

2009-12-17

[R B443]	<p>A Code List XML Schema File MUST be given a file name that represents the name of the code list and is unique within the namespace to which it belongs using the form:</p> <pre><Code List Agency Identifier>_<Code List Identifier>_<Code List Version Identifier>.xsd</pre> <p>Where:</p> <ul style="list-style-type: none"> • Code List Agency Identifier – Identifies the agency that maintains the code list. • Code List Identifier – Identifies a list of the respective corresponding codes. • Code List Version Identifier – Identifies the version of the code list. 	1
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When we do a migration test from MagicDraw to EA Sparx we have some values correctly put under the UPCC3 <<ENUM>> stereotype (in the example here under codeListName, languageCode, modificationAllowedIndicator), some values put under UPCC3 <<ValueDomain>> stereotype (uniqueID, versionID) and some values incorrectly put under the enumeration itself (codeListAgencyIdentifier, codeListIdentifier).

«ENUM»

- codeListAgencyIdentifier = "260"
- codeListIdentifier = "BEL"
- codeListName = "BE_MeterDisplayTechnology"
- languageCode = "EN"
- modificationAllowedIndicator = false
- uniqueIdentifier = "BE000012"
- versionIdentifier = "0.1.A"

«PRIM»

- languageCode = "EN"
- uniqueIdentifier = "BE000012"
- versionIdentifier = "0.1.A"

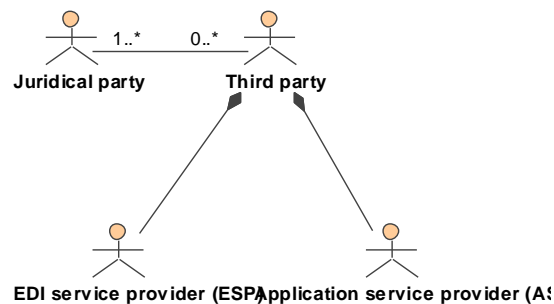
Tagged Values

Enumeration (BE_MeterDisplayTechnology)	
codeListAgencyIdentifier	260
codeListIdentifier	BEL
md_guid	_17_0_2_eac0340_1354810236249_960769_28495
UPCC3 - ENUMLibrary Abstract Syntax::ENUM (BE_MeterDisplayTechnology)	
businessTerm	
codeListAgencyID	
codeListAgencyName	
codeListID	
codeListName	BE_MeterDisplayTechnology
enumerationURI	
languageCode	EN
modificationAllowedIndic...	false
restrictedPrimitive	
status	
UPCC3 - ENUMLibrary Abstract Syntax::ValueDomain (BE_MeterDisplayTechnology)	
definition	
dictionaryEntryName	
minorVersionID	
revisionID	
uniqueID	BE000012
usageRule	
versionID	0.1.A

Appendix C ebIX® Rules for addressing (routing)

C.1 Definitions

- Juridical party:** A juridical party is the party juridical responsible for sending or receiving information.
- Party id:** The identification of a party, i.e. the party's GS1 location number or the party's EIC (Energy Identification Code).
- Third party:** A party acting on behalf of the juridical party (as an intermediate) in a message exchange scenario. In between the juridical parties there may be several third parties. These intermediates can have different responsibilities, such as routing of documents, conversions and/or handling of the document content on behalf of the juridical party. Intermediates only doing routing of messages will not be a part of the addressing principles discussed below. The third parties may be split into the following two subtypes:
- Application service provider (ASP):** A third party that takes care of the database (application) for a juridical party. The ASP is responsible for returning application acknowledgements.
- EDI Service Provider (ESP):** A third party that is responsible for the document exchange on behalf of the juridical party, including conversion of documents. The ESP is responsible for returning syntax related acknowledgements.



Relationship between roles in document exchange

A juridical party can choose whether or not to use one or more third parties in his document exchange. It is also possible to combine usage of third parties for one or more business areas and handle the document exchange himself for other business areas.

C.2 Principles for addresses and identifications

1. The juridical party may choose whether to use one or more third parties as intermediates in a document exchange scenario.
2. Routing of documents, including acknowledgements, shall use the same principles even if third parties are used.
3. The information in the "Header and Context Information" class may be used for routing purposes:

Header and Context Information	
+Document Type : DocumentNameCode [1]	o
+Business Reason : BusinessReasonCode [1]	o
+Ancillary Business Process Role : BusinessRoleCode [1]	o

4. It shall always be the juridical party, the party legally responsible for sending or receiving the information, that is identified in the document header level.
5. Acknowledgements of acceptance, such as EDIFACT/APERAK, shall be treated as any other document regarding the addresses. I.e. the sender address, including BPI (sub address) in the original document, shall be sent as receiver address in the application acknowledgement. And the receiver address, including BPI (sub address) in the original document, shall be sent as sender address in the application acknowledgement.²
6. Acknowledgements of receipt, such as EDIFACT/CONTRL documents, shall be returned with opposite addresses. I.e. the sender address, including BPI (sub address) in the original document, shall be sent as receiver address in the syntax acknowledgement. And the receiver address, including BPI (sub address) in the original document, shall be sent as sender address in the syntax acknowledgement.³

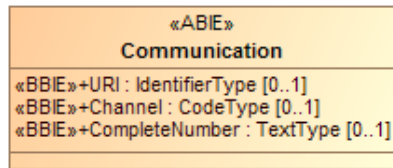
² Point 5 and 6 must be verified with ebIX® BRS for Acknowledgement

³ Point 5 and 6 must be verified with ebIX® BRS for Acknowledgement

Appendix D Agreed additions to the ebIX® Business Information Model 2018.A

D.1 BIE changes, e.g. cardinalities

- 1) Add an attribute “Disconnection Contract” (Boolean) in MP Administrative Characteristics
- 2) Change the Country Name (text) in the MP Address class to Country (coded)
- 3) Add a new ABIE; Communication:



- 4) Rename the BBIE Unit Type in the ABIE Product Characteristics to Quantity Unit Type and add a BBIE Price Unit Type to the ABIE Product Characteristics
- 5) Verify that addition of an ASCC between the ACC Event and the ACC Address is on the list of ebIX® changes to UN/CCL
- 6) Add an ABIE Language Code to the ACC Address to the list of ebIX® changes to UN/CCL
- 7) Add a BBIE Type to the ABIE Metering Point Address

D.2 New enumerations and/or DT

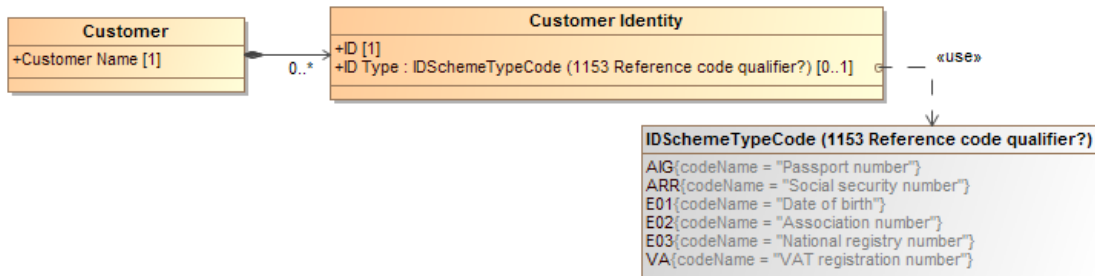
- 1) Add an enumeration for ISO Language codes, based on ISO 639-1988
- 2) Add an enumeration for Energy Label Fuel type, based on CENELEC standard, imported from Atrias implementation
- 3) Add an enumeration for Energy Label Technology type, based on CENELEC standard, imported from Atrias implementation
- 4) Add enumeration “Communication channel”, ebIX® subset with the following literals, based on 3155:
 - AL Cellular phone
 - EM Electronic mail
 - FX Telefax
 - TE Telephone
- 5) Add an enumeration “Communication channel”, ebIX® subset, based on 3131 Address type, code with the following literals:
 - 1 Postal address: The address is representing a postal address
 - 3 Physical address; The address represents an actual physical location.
- 6) Remove all predefined facets, such as maxLength
- 7) All code lists should be checked for codes without a code name. These should be given a name or deleted.

Appendix E MDS proposals to ETC for update of the ebIX® Business Information Model

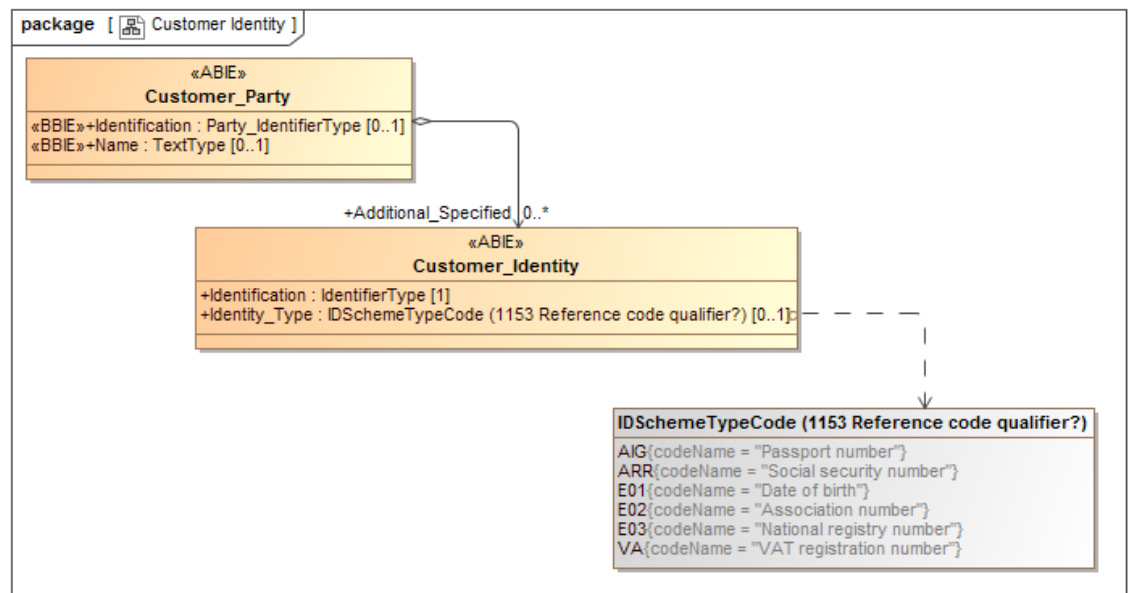
E.1 BRS for Alignment of characteristics for a Customer linked to a Metering Point

- a) Add the attribute “ID Scheme Type Code” to the ebIX® model.

As shown in the BRS:



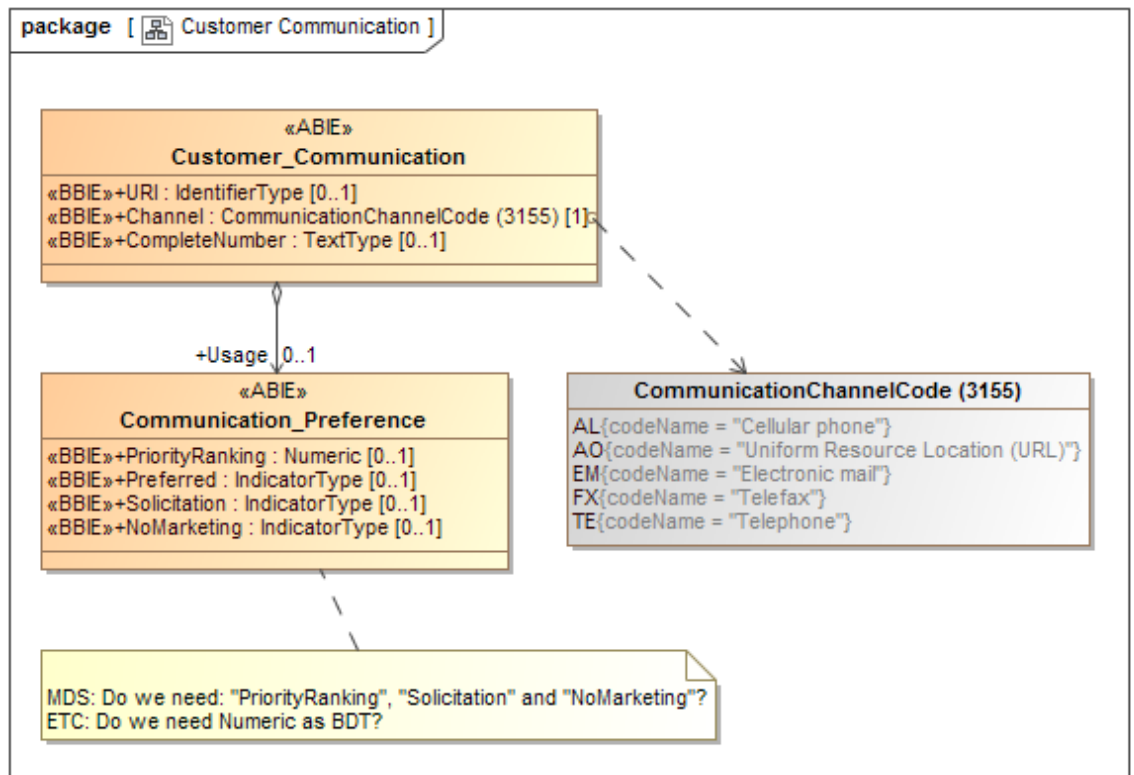
- o As shown in the ebIX® profile:



Action for ETC:

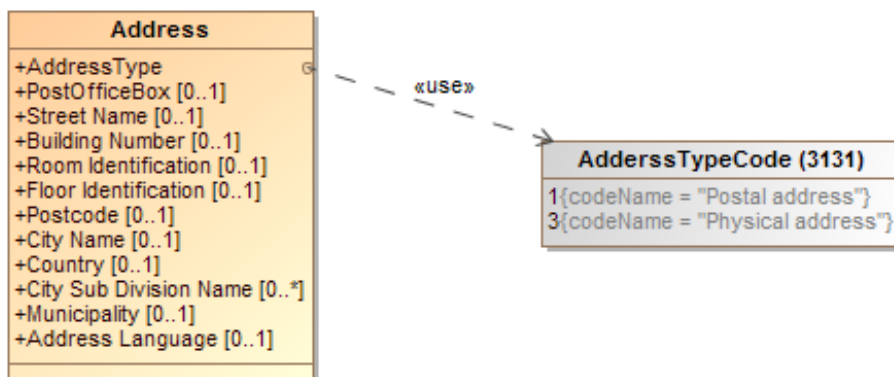
- o Approved by MDS – ETC will create the «ABIE» Customer Identity and related code list

- b) Add the «ABIE» «Communication Channel Type» and the related Communication Channel Code:



Action for ETC:

- o Approved by MDS – ETC will add the «ABIEs» Customer Communication and Communication Preference, and the related Communication Channel Code.
 - MDS will only use "Preferred" from Communication Preference
- c) Add an Address Type, based on UN/CEFACT 3131 Communication Channel Code:

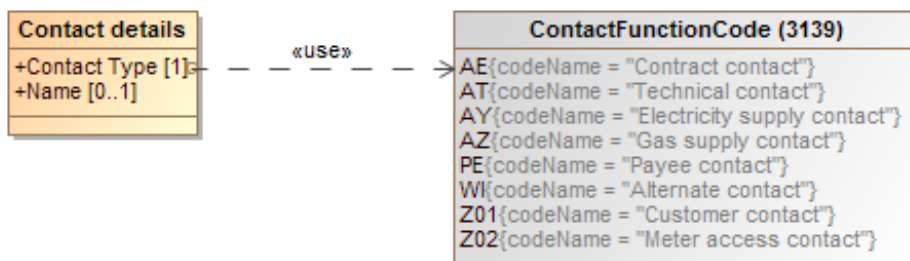


Action for ETC:

- o Add Type to the «ABIE» Metering Point Address

- o Add the enumeration Address Type Code

- d) Add a new enumeration “Contact function code” based on “3139 Contact function code”:



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

Contract contact	AE	Contract contact	Department/person to contact for matters regarding contracts	NEW	
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Action for ETC:

- o ETC will create the enumerations

Action for MDS:

- o The BRS will be republished when new codes have been approved by UN/CEFACT

E.2 General question for later elaboration

Can we remove the Document Name Code from the ebIX® models?

Status:

- The question will be kept for later elaboration

E.3 BRS for Request Change grid responsibility

- a) ETC is asked to find Document Name codes for:
 - o Request change grid responsibility;
 - o Response change grid responsibility;
 - o Notify change grid responsibility;
- b) And Business Reason codes for Change grid responsibility.

Status:

- o Awaiting finalisation of the BRS from MDS