


<b>Minutes ETC meeting, October 1<sup>st</sup> and 2<sup>nd</sup>, 2013</b>	 <b>European forum for energy Business Information eXchange</b>
October 4 <sup>th</sup> , 2013	ETC - ebIX <sup>®</sup> Technical Committee

## Minutes ETC meeting, October 1st and 2nd, 2013

**Date:** Tuesday and Wednesday, October 1st and 2nd, 2013  
**Time:** 09:00 – 17:40 and 09:00 – 14:30  
**Place:** Atrias offices in Brussels  
**Participants:** David Batič, Energy Agency of the Republic of Slovenia, [David.Batic@agen-rs.si](mailto:David.Batic@agen-rs.si)  
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**Appendixes:** **Appendix A**, Pending list  
**Appendix B**, The tasks of ETC  
**Appendix C**, Participants in ETC  
**Appendix D**, ebIX Rules for addressing (routing)



ebIX presentation  
Sep 2013 WG-16.ppt

**Attachment:** See item 3, Resolve matters arising from contact with IEC/TC57

### 1 Approval of agenda

The agenda was approved with the following additions:

- Service Delivery Point, see 15.1 under AOB
- Scheduled Meter Reading Date, 15.2 under AOB
- ebIX<sup>®</sup> Confirmation of Aggregated Data per Neighbouring Grid for Settlement Responsible, see 15.3 under AOB
- Preparations for ebIX<sup>®</sup> Forum, see 15.4 under AOB

### 2 Minutes from previous meetings

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

- Under item 11 it was clarified that ETC would *try* making a PDF version using the “Generic table” function in MD.
- Under item 15.4-2-b, it was opened for addition (extension) of “patterns” using OCL, see discussion under item 4 below.

### 3 Resolve matters arising from contact with IEC/TC57

Jan and Kees reported from IEC/TC57/WG16 face-to-face meeting in Arnhem September 10<sup>th</sup> to 12<sup>th</sup>:

- Jan showed a Power Point presentation he presented at the WG16 meeting, which is attached
- Kees reported some observations from the meeting:
  - The ebIX<sup>®</sup> BRSs needs to be mapped to CIM, making sure the semantic meaning is the same in the CIM elements and the ebIX<sup>®</sup> models. However, IEC was not clear which profile of the CIM to use
  - ENTSO-E had a different approach, where the naming of the entities and structure should be as close to the current ENTSO-E IGs as possible

- It was stressed from ebIX<sup>®</sup> that sector independent CCs, such as Address, should be harmonised with “the rest of the world”, e.g. UN/CEFCAT CCs.
- There was a good atmosphere in the meetings
- IEC has a methodology for CIM itself, but none for how to make “market extensions”
- ebIX<sup>®</sup> will work directly with IEC and not through tWG
- IEC promised to come up with what profile of CIM that should be the basis for the mapping of ebIX<sup>®</sup> BRSs to IEC.
- After the CIM profile is known, ebIX<sup>®</sup> will make a New Work Item Proposal (NWIP) for mapping the EMD BRS for collected data to CIM, proposed as a subproject under WG16.

The 62325 451-4 (settlement and reconciliation) project is continuing without ebIX<sup>®</sup> involvement and without a downstream reconciliation part.

#### 4 ebIX<sup>®</sup> technical documents

Due to lack of time the review of “*ebIX<sup>®</sup> recommendations for acknowledgement and error handling*” was postponed.

Kees reported that there has been work done on an updated version of the TT (Transformation Tool):

- Among others the following functionality has been added:
  - Fitted to the latest version of Eclipse
  - Addition of the possibility to create *Choice* using OCL
  - Sorting of literals in enumerations and restrictions
- The *ebIX<sup>®</sup> Rules for the use of OCL statements* and the TT manual will be published after the TT has been tested, probably by the end of this year (2013)
- The following functionality is still missing:
  - Addition of OCL functionality to add pattern and value for date/time formats, see discussion below.
  - Addition of national constraints
- An updated TT is critical for the national Belgium project and Belgium hopes the TT is available mid-November.
- In all stereotypes, in all constraints, in all <<MA>>s, the ResponsibleAgency must be set to 260 (ebIX<sup>®</sup>)

#### **Conclusion:**

- The intention is to have a new version of the TT available mid-November, ready for testing.
- A fully tested TT and related documentation (*TT Manual* and *ebIX<sup>®</sup> Rules for the use of OCL statements*) is expected ready for publication by the end of this year.

During this item, the following conclusion from the previous meeting was re-discussed:

Restriction of possible values for an attribute is today only possible through a code list. It should be possible to do it “on-the-fly” (for example; limitation on a string). OCL permit to give such a limitation but TT only takes the first one and after gives an error

#### **Conclusion:**

This functionality will be added to the next version of the TT tool.

Example of syntax:

#### **OCL:**

inv: self.Observation\_Period.Resolution\_Duration.content= 'PT60M' or

inv: self.Observation\_Period.Resolution\_Duration.content= 'PT15M'

**XSD:**

```
xsd: <simpleType name="DurationType_000151">
  <xsd:restriction base="xsd:duration"/>
    <xsd:enumeration value="PT60M"/>
    <xsd:enumeration value="PT15M"/>
  </xsd:restriction>
</xsd:simpleType
```

Kees was however concerned that allowing for addition (extension) of “patterns” using OCL will result in many “on-the-run-solutions”, which will make the ebIX<sup>®</sup> model inconsistent.

Because we in this case has a combination of pattern and value, it was concluded that it should be allowed in this case. It will be stated in the *ebIX<sup>®</sup> Rules for the use of OCL* that the solution is strictly restricted to be used for date/time patterns. The conclusion will be added to the *Introduction to ebIX<sup>®</sup> Models* as homework for Kees and to the *ebIX<sup>®</sup> Rules for use of UMM2* as homework for Ove.

Kees will continue the homework regarding the document *Introduction to ebIX<sup>®</sup> Models*.

**Homework:**

- Ove will update the *ebIX<sup>®</sup> Rules for use of UMM2* (see comments in the document), to be reviewed and agreed at the next ETC meeting
- Ove will update the CuS <<MA>>s, i.e. in all stereotypes, in all constraints, in all <<MA>>s, the ResponsibleAgency must be set to 260 (ebIX<sup>®</sup>)
- Kees will make a note in the document *ebIX<sup>®</sup> Rules for the use of OCL statements*, i.e. that the solution use of OCL to add pattern and value is strictly restricted to be used for date/time formats (but await publication until the TT is ready)
- Kees will as continued homework do some editorial updates of the *Introduction to ebIX<sup>®</sup> Models* and publish it

## 5 tWG

Fedder reported that there not has been any meetings in tWG lately, but a meeting will be scheduled before the end of the year.

## 6 Business Document Header (BDH)

The BDH discussion will be postponed until discussed in tWG. The item will be removed from the coming agenda.

## 7 ebIX<sup>®</sup>, EFET and ENTSO-E Harmonisation Group (HG)

ENTSO-E has sent the ebIX<sup>®</sup>, EFET and ENTSO-E Harmonised Electricity Role Model V2013-01 to the ENTSO-E Market Committee for approval and the statement “Harmonisation document will be published on the ENTSO-E website after approval by the ENTSO-E Market Committee”. However, it was agreed at the previous ebIX<sup>®</sup>, EFET and ENTSO-E Harmonisation Group (HG) meeting that:

- 1) It should be approved by the Market Committee within ENTSO-E
- 2) It should be approved by ebIX<sup>®</sup> Forum
- 3) And it should be approved by EFET

After that it can be published.

For information, Jan has sent the following comments to the HG:

- 1) Change “ETSO” to “ENTSO-E” (see at the top where we can find the text “Clear ETSO responsibility” twice).
- 2) Change “EBix” to “ebIX” (or rather ebIX®) in the text “Blue EBix responsibility”.
- 3) Make the “Market Information Aggregator”-role smaller – the size should be the same for all roles.
- 4) Move the text “is composed of” to the right between Market Balance Area and Metering Grid Area. And change it to “Is composed of”.
- 5) Change the text “Manages..” to “Manages” between Coordination Center Zone and Coordination Center Operator.
- 6) Change the text “is composed of..” to “Is composed of” between RGCE Interconnected Group and Coordination Center Zone.
- 7) Change the text “is composed of..” to “Is composed of” between Market Balance Area and Market Area.
- 8) Move the text “Operates” to the right between Transmission Capacity Allocator and Allocated Capacity Area.

All full stops in the texts may also be removed, and initial lowercase can be changed to uppercase (like in “is composed of” above) – or at least it should at some point be harmonised in the model.

The above comments have been updated in the Role Model.

To be done in connection with the next HG meeting:

- Verify the comment linked to Market Balance Area. E.g. should at least be “E.ON” and not “E-ON”. And should not RWEnet be changed to Amprion?
- Go through the comment at the top regarding colours for Domains and Roles. E.g. there are some Green roles, and what do we mean with a “Clear” role? All roles, except for the green ones, are clear.

Fedder reported from WG-EDI discussions:

- The “network code drafting groups” within ENTSO-E has used roles in the codes not compliant with the Role Model
  - Kees stressed that this may be solved by mapping the “Business Roles” to the “Harmonised Roles”, as is the principles in UMM2
- The HG chair (Herwig Van den Bosch) from Elia has no time for international work for the time being (at least until next year) and from the ETC discussion it was noted that a new chair must be found

Kees reported from a meeting previous week in an EU program project; M490 Smart Grid

- The project includes also several participants from US (NIST) and most of the project members are also participating in various IEC WGs
- The project thinks the ebIX®, EFET and ENTSO-E Harmonised Electricity Role Model is a good basis for the roles needed in the project and the project intends to start using it

The report shows that the Role Model is important for the energy industry. ebIX® should be clear that the Role Model is important for us and that ebIX®, EFET and ENTSO-E are equal parties in the governance of the Role Model. ETC will stress the need to continue the harmonisation work at the ebIX® Forum meeting October 2<sup>nd</sup> and 3<sup>rd</sup>.

Kees proposed two action items based on the discussion:

- I. Making an overall study, including some top-level UseCases and related data exchanges, regarding Smart Grid and reserve power. The intention is using the study as a showcase for how the Role Model can be used to describe the interface between the downstream- and the upstream markets.
- II. Contact ENTSO-E, to make sure that the harmonisation work continues as originally intended, i.e. that it is reorganised as a cooperation between the three original organisations (ebIX<sup>®</sup>, EFET and ENTSO-E).

The following action item for ebIX<sup>®</sup> will be proposed skipped at the next HG meeting, since nobody saw the need for these specialisations:

- Could we introduce specializations for the Consumer (which is already a specialization of the Party Connected to the Grid)? It may be different Customers having the contract with the Balance Supplier and the Grid Access Provider?

### **8 Status for review of Slovenian WS implementation**

David informed that the project has implemented the ebIX<sup>®</sup> process without modification. The item will be skipped, unless Slovenia comes up with new information.

### **9 Benchmark test of different xml schema versions**

There was no news to be reported. The item will be continued on the next meeting.

### **10 Status for UN/CEFACT project for Alignment of Master Data for Metering Point and of Measured Data**

Nothing new to be reported.

### **11 Items related to the CuS project**

*Homework from previous meeting:*

- Kees will add a Snapshot-Date to the ABIE Master Data MP Event

*Status:* Done

- Kees will make a small Word document with examples on how to present mapping of UTILMD and UTILTS information to EDIFACT IGs, i.e. as MagicDraw artefacts

*Status:* Postponed until next meeting

- Kees will extract the code lists, BDTs, ABIEs, Qualifiers etc. from Magic Draw, using “Generic Table” and distribute to ETC before next meeting. At the next meeting it will be decided what to publish at the ebIX<sup>®</sup> web site.

*Status:* Postponed until next meeting

- Ove will update the version number of the CuS Structure model to 2013.A

*Status:* Postponed until next meeting

### **Homework:**

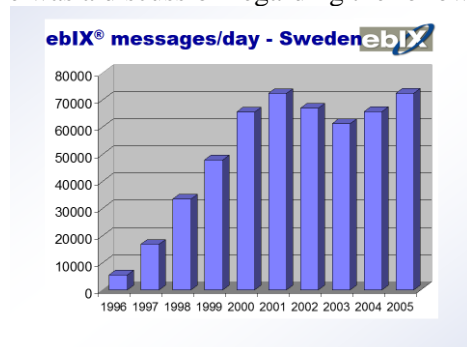
- Kees will make a small Word document with examples on how to present mapping of UTILMD and UTILTS information to EDIFACT IGs, i.e. as MagicDraw artefacts
- Kees will extract the code lists, BDTs, ABIEs, Qualifiers etc. from Magic Draw, using “Generic Table” and distribute to ETC before next meeting. At the next meeting it will be decided what to publish at the ebIX® web site.
  - Including moving *Status* to e-CodeListEntry
  - Showing “*Only used by*” and “*Responsible role*”
  - Literals with empty *Definition* will have a *Status=Deprecated*
- Ove will update the version number of the CuS Structure model to 2013.A

## **12 Update of ebIX® presentation**

CuS had proposed to add a slide with members and observers and Ove had as homework made a proposal. Among others because of maintenance problems, it was agreed not to add such a slide.

The rest of the slides in the presentation was fast reviewed and a few errors corrected, such as the slides regarding member organisations and ebIX® history.

There was a discussion regarding the following slide:



... which is a bit outdated. Everybody was asked to see if they can find better (newer) statistics that can be used to promote the ebIX® mission.

During this item the need for cooperation with Eurelectric was stressed. However the contact with Eurelectric is already established. Last contact was done by Gerrit Fokkema, chair of CuS. CuS will follow up when we receive the report regarding high-level processes for the downstream market from Eurelectric by the end of the year and see if there are leads for cooperation.

### **Homework:**

- Everybody was asked to review the presentation and come up with proposals for making it better, and especially see if they can find better (newer) statistics that can be used to promote the ebIX® mission.
- Ove will publish the updated presentation

## **13 Information from ENTSO-E/WG-EDI meetings (Fedder)**

Fedder reported:

- The “CIM European Market Model Exchange Profile” has been approved by IEC (62325-351, Framework for market communication)

- The IEC 62325-451-4 project (Settlement and reconciliation) is ongoing
- See also report related to the HG under item 7 above.

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

- Tuesday December 17<sup>th</sup> 09:00 – 17:00 (18:00?) and Wednesday December 18<sup>th</sup>, 09:00 – 15:30 in Oslo
  - The next meeting will be dedicated for review, improvement and approval of the BIM 2013.A, i.e. item 3 on the Pending list (Appendix A)

#### 15 AOB

##### 15.1 Service Delivery Point

Ove had received a question regarding the Belgian use of Service Delivery Point (SPD).

Thibaut explained that the SPD will be the lowest level where a change of supplier can take place, but will not have a unique EAN GSRN ID. The SPD will however be linked to a Head Point that is identified with an EAN GSRN ID. The SPD will be identified with a code telling what type of SPD it is, such as “Compensation SPD”, “Production SPD” or “Consumption SPD”.

##### 15.2 Scheduled Meter Reading Date

*From Atrias:*

One of the attributes we have been struggling with is the “Scheduled Meter Reading Date” and the fact that it is a DateTime Type.

For Smart meters we understand that it can be an exact date at which the reading will be done. So DateTime is fine as a format. For traditional meters, read with a yearly frequency, we used to have something like the Meter Reading Month, which is a month (January, February, and so on) We thought of using the same “Scheduled Meter Reading Date” for Meter Reading Month, but then the type can not be DateTime, but should rather be of the format xsd:gMonth.

Hence our questions:

1. Is the process Notify Metering Point Characteristics also supporting the “traditional” meter types?
2. If so, where can we put the Meter Reading Month?
3. If the Meter Reading Month should go in “Scheduled Meter Reading Date”, should the type not be something else then DateTime?
4. If so, what should the type be? We do have a Date Type, a DateTime Type and a Duration Type but I have not found any trace of other date formats in CCTS. Should we make it a TextType then?

The process Notify Metering Point Characteristics is supporting the “traditional” meter types. Several alternatives were discussed, such as:

- a) Using the combination of Next Meter Reading Date (always specifying the first of the month) in combination of Meter Reading Frequency with a Duration=1 month
- b) Creating a new element; Meter Reading Month
- c) Using Next Meter Reading Date for smart meters and continuously read
- d) Change Next Meter Reading Date to Next Meter Reading Period

Belgium prefer alternative b) for the profiled settled MPs and using the existing elements for continuously read smart meters. The discussion will be forwarded to CuS.

During this item it was also noted that Belgium uses the “Payload” version of the ebIX® schemas. This means that the Sector (Electricity/Gas) not is available in a header and hence must be sent in the SOAP header.

### ***15.3 ebIX® Confirmation of Aggregated Data per Neighbouring Grid for Settlement Responsible***

The Nordic NBS (Nordic Balance Settlement) asked if ebIX® could come up with a Document Type Code to use for the “ebIX® Confirmation of Aggregated Data per Neighbouring Grid for Settlement Responsible (E??, E44)”?

Kees, as secretary of EMD, will look up the history and come back with an answer.

#### ***Homework:***

- Kees will look up what was discussed at the latest EMD meeting regarding the NBS request for “ebIX® Confirmation of Aggregated Data per Neighbouring Grid for Settlement Responsible (E??, E44)” and propose what code to use for the document.

### ***15.4 Preparations for ebIX® Forum***

A presentation for the coming ebIX® Forum was made.



## Appendix A PENDING LIST

### 1 ebIX<sup>®</sup> recommended identification scheme

Chapter 7 from the «ebIX<sup>®</sup> common rules and recommendations» should be a basis for a new chapter in the ebIX<sup>®</sup> recommended identification scheme document, see Appendix D.

### 2 Creation of an ebIX<sup>®</sup> technical presentation

### 3 ebIX<sup>®</sup> Business Information Models

### 4 How to describe XML schemas

Swissgrid has looked into alternative ways of describing XML schemas, as an alternative to the current OCL statements:

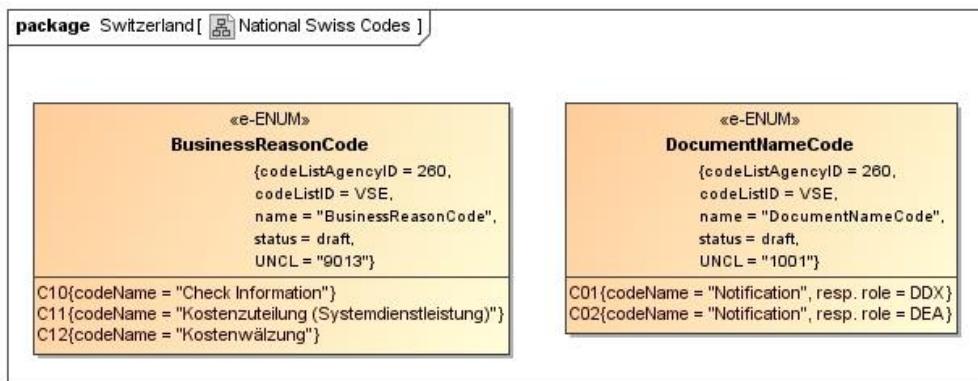
1. Using the generator as shown last or pre-past meeting. The example is attached.
2. Create very nice documents with this product:

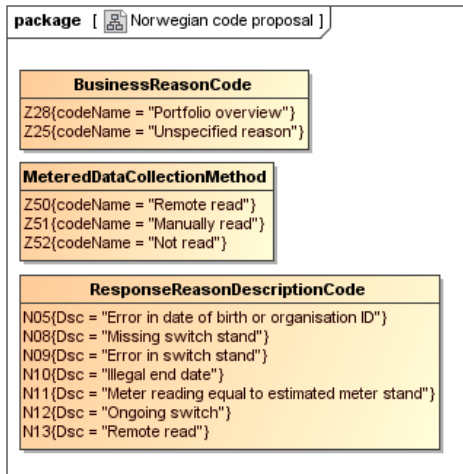
[http://www.filigris.com/products/docflex\\_xml/xsddoc/#intro](http://www.filigris.com/products/docflex_xml/xsddoc/#intro)

Probably, we should first exactly define the audience for this document. For developers and architects, a very basic documentation like xml-spy test.doc will be fine, for more sales- and marketing oriented users, the reports have to be nice and probably a little bit fancy... like the examples from the docflex.

### 5 Review of National code lists

The following code lists comes from a review in the CuS WG and are candidates for updates of the ebIX<sup>®</sup> models:





## 6 ebIX® Modelling Methodology

*Homework from earlier meetings:*

- Those who have time are asked to read the ebIX® Modelling Methodology (see [www.ebix.org](http://www.ebix.org)) and see if there are parts of it that have to be moved to the *ebIX® Rules for the use of UMM2* or *Introduction to ebIX® Models* documents.

## 7 Review of ETC tasks in Appendix B

## 8 Status for test of a web-conference solution

Set up a test, one-to-one, with relevant ETC web-conference participants, to get all up and running before next web-conference.

## 9 ebIX® header:

- a) Do we want the following rule?

*The requestor id and the requestor role (Business process role) for the actor (role) that asks for changed, added or deleted information of another role shall be stated in the document header.*

- b) Do we need a test indicator?  
 c) The content of the Energy Document and Energy Context ABIEs needs a review

## Appendix B THE TASKS OF ETC

Task	Group	Priority	Planned
Update of Introduction to Business Requirements and Information Models		High	Every Q1
Making ebIX <sup>®</sup> Recommendations for usage of WEB services including recommendations for acknowledgement and error handling		Medium	2013
Review of “Rules for status and consequences for ebIX documents”		Medium	Every Q1
Maintain the ebIX <sup>®</sup> technical documents: <ul style="list-style-type: none"> <li>• ebIX<sup>®</sup> Rules for the use of UMM-2.0</li> <li>• ebIX<sup>®</sup> common rules and recommendations (v1r1D)</li> <li>• ebIX<sup>®</sup> Recommendations for asynchronous acknowledgement and error handling (v1r0C)</li> </ul>		Medium	Every Q2
Other tasks: <ul style="list-style-type: none"> <li>• Restructuring of UTIL-messages to reflect the structure of CCs (if we keep on mapping to EDIFACT)</li> <li>• 2<sup>nd</sup> generation Harmonized Role Model for Electricity and Gas</li> <li>• ebIX<sup>®</sup> Header</li> </ul>	CuS, EMD and ETC Together with ENTSO-E?	Low	?
		Medium	2013
		High	2013
Maintain ebIX <sup>®</sup> profile for MagicDraw, including: <ul style="list-style-type: none"> <li>• Core Components</li> <li>• Code lists</li> <li>• Templates, etc.</li> </ul>		Continuous	
Participation/representation in the ENTSO-E and ebIX <sup>®</sup> technical WGs <ul style="list-style-type: none"> <li>• Maintaining harmonised role model</li> <li>• Core Components</li> <li>• Information exchange between participation organisations</li> </ul>	Together with ENTSO-E	Continuous	
Participation in UN/CEFACT		Continuous	
Cooperation with IEC/TC57/WG16		Continuous	
Organise implementation support, such as: <ul style="list-style-type: none"> <li>• ebIX<sup>®</sup> course</li> <li>• Implementation support for participating countries, such as inserting/updating codes.</li> </ul>		Continuous	
Supporting ebIX <sup>®</sup> projects, i.e.: <ul style="list-style-type: none"> <li>• Develop and maintain the UMM <i>Business Choreography View</i> and <i>Business Information View</i> from the CuS and EMD working groups.</li> <li>• Develop and maintain XML schemas based on the <i>Business Information View</i> from the CuS and EMD working groups</li> </ul>		Continuous	

## Appendix C PARTICIPANTS IN ETC

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## Appendix D EBIX RULES FOR ADDRESSING (ROUTING)

### D.1 Definitions

**Juridical party:** In this chapter the term juridical party will be used for the party juridical responsible for sending or receiving information.

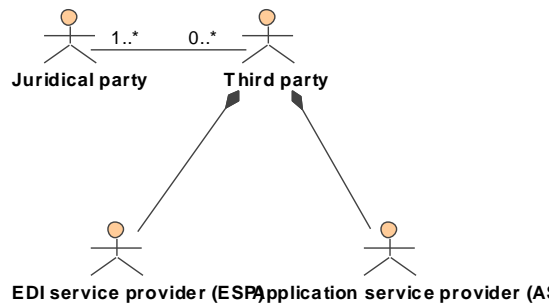
**Business process id:** The key element in routing and addressing is the Business process that will be identified by a code called the Business Process Identification (BPI). BPI also serves as the key element to indicate the business process capabilities of a party. The user group, government agency, or national ebIX group making a Business information model assigns this code.

**Party id:** The identification of a party, i.e. the party's EAN location number or the party's EIC (ETSO 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 to/from EDIFACT/XML 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, such as APERAK.

**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, such as EDIFACT CONTRL.



*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.

### D.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. A juridical party can only have one party id for each BPI.

3. Routing of documents, including acknowledgements, shall use the same principles even if third parties are used.
4. In case of additional routing information a BPI shall be used for routing of documents to the right business process through its identification.
5. The main use of the addresses in the envelope (for EDIFACT in UNB) is routing purposes. The routing information includes information related to the BPI.
6. A recipient id combined with the related BPI in the envelope (for EDIFACT in UNB) can only be linked to one communication address, but a communication address may be linked to several combinations of party ids and/or BPIs.
7. 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 (for EDIFACT in the NAD segment).
8. Either EAN or EIC (ETSO Identification Code) identification scheme shall be used as party id.
9. The BPI concerned shall be stated in the envelope.
10. 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.
11. 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.

