Minutes ETC meeting, December 7th and 8th, 2015

Date: Monday and Tuesday, December 7th and 8th, 2015
Time: 11:30 – 17:30 and 09:00 – 15:30
Place: Svenska kraftnät, Stockholm
Present: Fedder, DK
                 Jan (Convenor), SE
                 Kees, NL
                 Ove (Secretary), NO
                 Thibaut, BE
Appendixes: **Appendix A,** Pending list
                 Appendix B, The tasks of ETC
                 Appendix C, ebIX® Rules for addressing (routing)
Attachment:

ebIX - ETC
homework - listAgen   See item 6.6, codeListAgencyIdentifier usage in ebIX model

MagicDraw 18.2
test.xlsx   See item 7, Status for upgrade of MagicDraw (MD) to version 18.x
(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:

- ebIX® recommended identification scheme, 14.1 under AOB
- ebIX® Rules for the use of UN/CEFACT Modelling Methodology (UMM) version 2, 14.2 under AOB
- Status for BRS for cancellations, see 14.3 under AOB
- AS4, see 14.4 under AOB

2   Minutes from previous meetings

The minutes from previous meeting was approved.

3   ebIX®, EFET and ENTSO-E Harmonised Role Model

3.1   *New HG project: Harmonisation of implementation of European network codes within Harmonised Role Model (HRM), the role of HG and tWG*

Fedder had as action from earlier meetings to ask ENTSO-E/WG-EDI to investigate the differences between the Harmonised Role Model (HRM) and the definitions in the new network codes, and if needed: propose necessary changes to the HRM.

However, the item is already on the agenda for the HG and will be followed up there.

3.2 New role "Metering Point Identification Allocator"

Making a better justification (requirements) for adding a new role "Metering Point Identification Allocator", or a more generic role, such as "Identification Allocator", to the Harmonised Role Model (HRM).

Conclusion:
- The item was moved to Appendix A, since the item not has a high priority.

3.3 New role "ESCO (Energy Service Company)"

Making a document discussing the need for an ESCO or similar role(s) (Demand Response Aggregator, Balancing and/or Congestion Services) and how such a role or roles can be integrated (add, update…) to the HRM. Belgian roles:

Balancing Service Provider	A market role that offers balancing services to the TSO
Flexibility Service Provider	A market role which sends a signal to a Producer or Consumer and offers its flexibility to a third party. An Aggregator is a FSP with a pool of flexibilities."

Kees mentioned that he earlier (in October) had distributed a document from USEF, which suggests several new roles related to smart grid and ESCOs.

Conclusion:
- The item was postponed until next meeting, see also item 3.4 d)

Action:
- Everyone should read the USEF document distributed by Kees in October and try to get national responses to the need for smart grid roles

3.4 New topics from HG meeting November 19th and 20th

a) ebIX® will verify the need for Block Energy Trader (BET)
   Discussion:
   - o The BET can probably be used for the "Trader" that has been requested from the Nordic Countries.
   - o The name is a bit misleading.
   - o A trade can be between a BET and a BRP, another BET, a power exchange or over the cashier (OTC)
   Conclusion:
   - o We will propose to change the name from "Block Energy Trader" to "Trader", add an association from the Trader to the BRP named "Is contracted with" and simplify the definition to:

      A party that is selling or buying energy ~~on a firm basis (a fixed volume per market time period)~~

b) ebIX® will discuss moving of the HRM from MD (Magic Draw) to EA (Enterprise Architect), especially regarding technical issues

   Discussion:
   - o We have a problem related to how this proposal came up
   - o Until now, ebIX® has retyped the HRM from the PDF version of the HRM to the ebIX® Model. However, the latest version, 2015-01, we have got as a MD-file.
   - o ebIX® has been promised the HRM in MS Word format, but we have never "seen one"
   - o The change from MD to EA will not influence the ebIX® use of MD

   Conclusion:
   - o ebIX® will inform the HG that we think that such decisions for the future shall be taken jointly
   - o ebIX® will also stress that the HRM belongs to all the three bodies participating in the HG, which should be reflected in the naming, copyright etc.
   - o The following text will be suggested for the maintenance paragraph:

     THIS DOCUMENT IS MAINTAINED JOINTLY BY ENTSO-E, EFET AND EBIX®. COMMENTS OR REMARKS ARE TO BE PROVIDED USING THE MAINTENANCE REQUEST FORM PUBLISHED NEXT TO THE ROLE MODEL.

c) All are asked to verify the need for a Scheduling Agent
   Conclusion:
   - o ebIX® does not see the need for a Scheduling Agent

d) ebIX® will prepare a proposal for addition of new elements because of smart processes before next HG meeting.
   Discussion:
   - o Will be discussed together with the new role "ESCO (Energy Service Company)" at the next meeting, see item 3.3.

e) All will verify the new definition of Balance Group:

   An account for the allocation of products such as energy, power or capacity

   Discussion:
   - o No comments from ebIX®

4   Status and continuation of ebIX®/IEC trial project

The project is ongoing and the next meeting will be held next week, December 16th and 17th.

5   Status for publication of ebIX® Business Information Model 2014.A

Kees had as action from previous meeting corrected the following, in the next version to be published of BRS Measure Calorific Value:

- The text: "Since this is the first version of the document that is to **be** (?) published…" will be removed or rewritten (since the BRS already is published)
- "**Established Calorific**" is written with two spaces nine times

Ove had as action from previous meeting verified that the XML schemas from the BIM for Change of Balance Responsible Party and End of Supply are valid. Further, Ove had update the BIM for Notify MP Characteristics with the "new" "Metered Data Collection Method" and published the four CuS BIMs.

Continued action:
- Kees will publish the ebIX model after clean-up of codes (literals) used in class diagrams in EMD BRSs.

6   ebIX® Business Information Model 2016.A
6.1   *Agreed additions to the ebIX® Business Information Model 2016.A*
The following changes are agreed for ebIX® Model 2016.A (see justifications below):

BIE changes, e.g. cardinalities:
1) Change the cardinality of the association from "MP Event" to "MP Address" to [0..*]
2) Add a language attribute to "MP Address"
3) Add Aggregated Reception Station (ARS), as an ASBIE, with XOR between the ARS and Calorific Value Area (CVA)
4) Add CVA, as an ASBIE, with XOR between the ARS and CVA
5) Rename MP Characteristics class to MP Administrative Characteristics
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)
    d. Voltage Level (Moved from MP Administrative Characteristics)
    e. Pressure Level (Moved from MP Administrative Characteristics)
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.
8) Add a new ABIE Energy Label, with two BBIEs; Technology Type and Fuel Type
9) Add an attribute "Disconnection Contract" (Boolean) in MP Administrative Characteristics
10) Change the Country Name (text) in the MP Address class to Country (coded)
11) Add BDT for Energy Label Fuel
12) Rename BDT Energy Generation technology Type to Energy Label Technology Type
13) Add an attribute "number of phases" to a new BDT Capacity Measure Type:

«BDT»
CapacityMeasureType

«CON»+content : Decimal [1]
«SUP»+unitCode : String [0..1]
«SUP»+numberOfPhases : Integer [0..1]

14) Add a new ABIE; Communication:

«ABIE»
Communication

«BBIE»+URI : IdentifierType [0..1]
«BBIE»+Channel : CodeType [0..1]
«BBIE»+CompleteNumber : TextType [0..1]

New enumerations and/or DT:

15) Add an enumeration for ISO Language codes, based on ISO 639-1988
16) Add an enumeration for Energy Label Fuel type, based on CENELEC standard, imported from Atrias implementation
17) Add an enumeration for Energy Label Technology type, based on CENELEC standard, imported from Atrias implementation
18) Add enumeration "Communication channel", ebIX® subset with the following literals, based on 3155:

AL   Cellular phone
EM   Electronic mail
FX   Telefax
TE   Telephone

19) 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.

6.2 *To be discussed and agreed, for ebIX® model 2016.A:*

1) Should we remove all maxLength restrictions from the BDTs and ABIEs/BBIESs, and specify them in the OCL constraints for each document instead?
    a. NEG (Nordic Ediel Group) ask for addition of a maxLength of 35 characters for Document and Payload ID
    b. Belgium will use a GUID, which is 36 characters
2) We will ask CuS if we should add a new enumeration "Contact function code" based on "3139 Contact function code", with the following proposed literals:

CuS requirements	3139 Contact function		
	code	name	definition
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
Neighbour	WI	Alternate contact	Alternate department or person to contact

House keeper	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 **Question:** Should we ask UN/CEFACT for a new code?

3) BIM for settle reconciliation:
   a. The BRS for settle reconciliation asks for a price per measure unit. We have now only a measure unit for the product and its volume. Kees suggest that we solve this in version 2016.A.

6.3 *CuS BIMs ("to remember item" until ebIX® model 2016.A is agreed)*
Ove will do the rest of the CuS BIMs, as soon as version 2016.A is agreed.

The item was postponed until agreed changes to the ebIX® model 2016.A is done.

6.4 *How to represent the exchange of calorific value in ABIEs*
Postponed due to lack of time.

6.5 *How to extend the possibilities for national customisation?*
Postponed due to lack of time.

6.6 *codeListAgencyIdentifier usage in ebIX model*
Thibaut had as actions item to make one or more proposal(s) for how to simplify the ebIX® rules for usage of "list Agency Identifier" and "list Identifier", see embedded homework in the header of these minutes. Thibaut presented the homework and explained that UN/CEFACT NDR require:

> [R A142]
> Every Code List MUST contain a structured set of **xsd:annotation xsd:documentation** elements that contain:
> - SchemeOrListID (mandatory): The unique identifier assigned to the code list.
> - SchemeOrListAgencyID (mandatory): The unique identifier assigned to the Agency that owns or is responsible for the code list being referenced.
> - SchemeOrListVersionID (mandatory): The version of the scheme or list.
> - SchemeOrListModificationAllowedIndicator (mandatory): Indicates whether the values being validated can be outside the enumerations specified by the code list.
>
> <xsd:group name="SchemeOrListDocumentation">

```
<xsd:sequence>
<xsd:element name="SchemeOrListID" type="IDType"/>
<xsd:element name="SchemeOrListVersionID" type="IDType" />
<xsd:element name="SchemeOrListAgencyID" type="IDType" />
<xsd:element name="SchemeOrListModificationAllowedIndicator"type="IndicatorType"/>
</xsd:sequence>
</xsd:group>
```

Kees explained that the ebIX® principle is that the documentation shall be in the UML model and that it was decided, at the time when the TT was created, that this information not should be included in the XML code list schemas. It was not seen as necessary to have the same information both in the XML code list schemas and the UML model.

It was also noted that you can see the list/scheme agency identifier from the file name of the XML code list schema, e.g. "260_000004_0p1pA.xsd". However, the code list identifier cannot be seen from the file name. The question is how to see both the list identifier and list agency identifier somewhere, either in the filename, as documentation/annotation or elsewhere.

One problem of the core problems is that you cannot see the source code list for the literals in the assembled code list, since the assembled code list is a merger of several code lists.

Action:
- Kees and Thibaut will try to come up with ways of solving the issues, i.e.:
    - How to see both the list identifier and list agency identifier somewhere related to the code list XML schema, i.e. in the filename, as documentation/annotation or elsewhere?
    - How to see the source code list for literals in assembled code lists?

6.7 Requests from CuS

6.7.1   Capacity of a Metering point
To be able to send Capacity of a Metering point as number of phases and current limitations, we need to add an attribute "number of phases" to the BDT MeasureType:

Conclusion:
- We add an attribute "number of phases" to a new BDT MeasureType

Note: CuS decided after the meeting to add "number of phases" as an BBIE instead of an attribute of the BDT.

6.7.2   BRS for Customer characteristics
We need to add code list for "Communication channel", "Contact Type" and "Address Type" to be used in BRS for Customer characteristics.

Conclusions:
- We will add an enumeration "Communication channel", ebIX® subset with the following literals:
    AL   Cellular phone

EM   Electronic mail
                        FX   Telefax
                        TE   Telephone
            and in addition we will add a new ABIE "Communication", see proposal under item 6.2

- We will ask CuS if we should add a new enumeration "Contact function code" based on "3139 Contact function code", see enumeration literal proposals under item 6.2.
- We will 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.

Action:

- Dependent on decision in CuS, Kees will make a DMR for a new code for "3139 Contact function code":

            Meter reading contact;   "Department/person to contact for matters regarding meter reading"

6.7.3   BRS for MP characteristics

A code list for "ISO language code" has already been added.

7   Status for upgrade of MagicDraw (MD) to version 18.x

Thibaut informed that Atrias has upgraded to version 18.2 and that tests shows that the upgrade was successful. These tests included xmi and compatibility with the TT, see embedded Excel file in the header of these minutes.

Conclusion:

- Kees will ask Poland if an upgrade to 18.2 will cause any problems
- Unless there Poland has problems with the upgrade, ebIX® will also upgrade to version 18.2

8   Code lists from MD model in Word format

Postponed due to lack of time.

9   Making a plan for support for new countries that want to use the ebIX® model

Thibaut had as action from previous meeting distributed the Belgian "MagicDraw user guide for ebIX® models" to ETC. What to do with the document will be decided at next meeting.

10   Status for update of the TT (Transformation Tool)

Thibaut informed that the latest version was received November 20th, however still with a few errors.

11 Creation of an ebIX® technical presentation

Postponed due to lack of time.

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

Nothing new.

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

Monday March 14, the Netherlands (The day before ebIX® Forum, Tuesday March 15th)

Monday May 2nd (starting 10:00), Tuesday May 3rd, Brussels

Tuesday June 28th and Wednesday June 29th, Poland

Tuesday September 13th and Wednesday September 14th, Denmark

14 AOB

14.1 ebIX® recommended identification scheme

Belgium would like to discuss Appendix C, as they will have such a case in Belgium for Settlement.

In some cases a commercial supplier has to receive messages concerning a non-commercial supplier as he is doing, for example, the financial settlement for the other one. We then need that the receiver can distinguish messages he receives for his own portfolio from messages he receives "on behalf of" the non-commercial supplier he is working for. Belgium don't find the explanation from Appendix C totally clear and up to date for XSDs. See also item A.1 in Appendix A, Pending list.

Thibaut informed that there are some small suppliers in Belgium, such as "social suppliers" (e.g. supplier of last resort). These small suppliers often have an agreement with a commercial supplier, which handles data exchange (and possibly more) on behalf of the small supplier. The proposed solution from Belgium is to have four parties in the header; Sender, Issuer, Recipient and Addressee.

It was discussed if the physical sender and recipient should be in a SOAP header or eventually in the payload. However none of these placements seems correct.
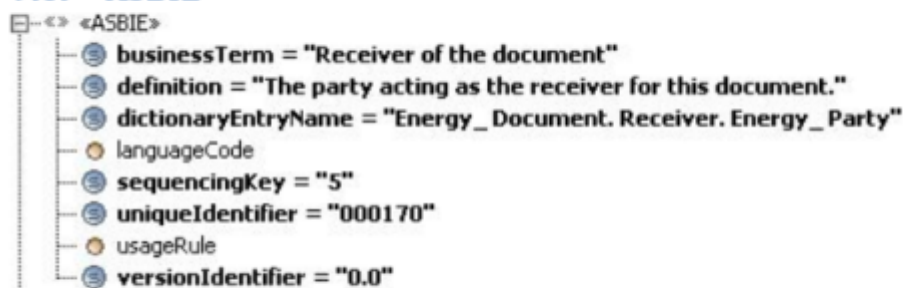
Conclusion:

- No one saw a better solution than the one proposed from Atrias, i.e. to have four parties in the header; Sender, Issuer, Recipient and Addressee.

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

From Thibaut:

I noticed in the document "ebIX® Rules for the use of UN/CEFACT Modelling Methodology (UMM) version 2" that you mentioned that tags have to be filled in for ASBIE.

9.6.   ASBIE
```
⊟┄<> «ASBIE»
    │─ ◉ businessTerm = "Receiver of the document"
    │─ ◉ definition = "The party acting as the receiver for this document."
    │─ ◉ dictionaryEntryName = "Energy_ Document. Receiver. Energy_ Party"
    │─ ○ languageCode
    │─ ◉ sequencingKey = "5"
    │─ ◉ uniqueIdentifier = "000170"
    │─ ○ usageRule
    │─ ◉ versionIdentifier = "0.0"
```

Remark:

the stereotypes reflecting the ebIX® additions contain tagged values for the mapping to EDIFACT.
The mapping to EDIFACT is not elaborated in this document.

In the model, the tags are applied on the association itself and not on the association end (in our example "Receiver"). Is it what it is expected? As in the dictionaryEntryName we specify ".Receiver." and is followed by the child ABIE I would think that the tags should be onto the "member end" and not onto the association.

Conclusion:
- The tags has to be on an association level.

14.3 Status for BRS for cancellations
On circulation for comments to ebIX® Forum until December 9th.

Action:
- Unless blocking comments, Ove will publish the document under "ebIX recommendations for cancellation of business documents and processes"

14.4 AS4
Kees informed that ENTSOG has decided to advice the usage of AS4, both for the upstream and downstream gas markets, while ENTSO-E would like to use MADES. One of the arguments for using MADES is that it is meant for large volumes, at least from version 2.

Kees asked if it will work, if AS4 is used between the actors in the downstream market and MADES for communication between and towards TSOs?

Action:
- All are asked to discuss and comment on the question: Will it work if AS4 is used between the actors in the downstream market and MADES for communication between and towards TSOs?

Appendix A   Pending list

A.1   ebIX® recommended identification scheme

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

A.2   ebIX® Modelling Methodology

Homework from earlier meetings:

- Those who have time are asked to read the ebIX® Modelling Methodology (see 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.

A.3   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)   The content of the Energy Document and Energy Context ABIEs needs a review.

A.4   Metering Point Identification Allocator

Making a better justification (requirements) for adding a new role "Metering Point Identification Allocator", or a more generic role, such as "Identification Allocator", to the Harmonised Role Model (HRM).
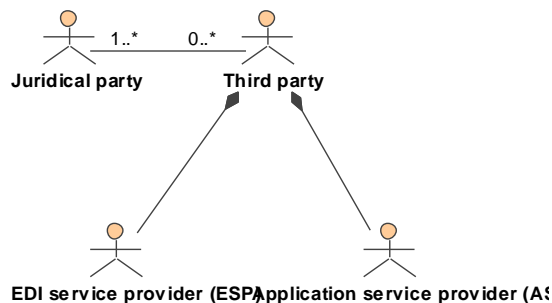
Appendix B   The tasks of ETC

Task	Group	Priority	Planned
Update of Introduction to Business Requirements and Information Models		High	Every Q1
Making ebIX® Recommendations for usage of WEB services including recommendations for acknowledgement and error handling		Medium	2016
Review of "Rules for status and consequences for ebIX® documents"		Medium	Every Q1
Maintain the ebIX® technical documents: • ebIX® Rules for the use of UMM-2.0 • ebIX® common rules and recommendations (v1r1D) • ebIX® Recommendations for asynchronous acknowledgement and error handling (v1r0C)		Medium	Every Q2
Other tasks: • 2nd generation Harmonized Role Model for Electricity and Gas • ebIX® Header	HG	Medium High	2016 2016
Maintain ebIX® profile for MagicDraw, including: • Core Components • Code lists • Templates, etc.		Continuous	
Participation/representation in the ENTSO-E and ebIX® technical WGs • Maintaining harmonised role model • Core Components • Information exchange between participation organisations	Together with ENTSO-E	Continuous	
Participation in UN/CEFACT		Continuous	
Cooperation with IEC/TC57/WG16		Continuous	
Organise implementation support, such as: • ebIX® course • Implementation support for participating countries, such as inserting/updating codes.		Continuous	
Supporting ebIX® projects, i.e.: • Develop and maintain the UMM *Business Choreography View* and *Business Information View* from the CuS and EMD working groups. • Develop and maintain XML schemas based on the *Business Information View* from the CuS and EMD working groups		Continuous	

Appendix C   ebIX® Rules for addressing (routing)

C.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.

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. 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.