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| Minutes - Project for Nordic (TSO) Energy Market Model for data exchange (NEMM) Date: Monday October 28 th and Tuesday October 29 th , 2013 Time: 10:00-17:00 and 09:00 – 16:00 Place: Denmark |  |
| November 1 st , 2013 | |

Participants: Jan Owe, SvK
Jari Hirvonen, Fingrid
Jon-Egil Nordvik (Convenor)
Kim Dahl, Statnett
Morten Torgalsbøen, Statnett (Tuesday)
Ole Fredsø Weigelt, Energinet.dk
Ove Nesvik, EdiSys (Secretary)

To (NEMM): Antti Niemi, Nord Pool Spot
Christian Odgaard, Energinet.dk
Eveliina Ishii, Nord Pool Spot
Hanna Blomfelt, Nord Pool Spot
Jan Owe, SvK
Jari Hirvonen, Fingrid
Jon-Egil Nordvik (Convenor)
Kim Dahl, Statnett
Minna Arffman
Ole Fredsø Weigelt, Energinet.dk
Ove Nesvik, EdiSys (Secretary)
Roar Grindstrand, Statnett

(NBS): Mats Elmér, SvK
Morten Torgalsbøen, Statnett
Pasi Lintunen, Fingrid

CC: Anders Bergqvist, SvK
Anne Stine Hop, Statnett
Oscar Ludwigs, SvK
Tor Bjarne Heiberg, Statnett
Tor Åge Halvorsen, NordPool

Attachment: None

--- Ordinary NEMM ---

1 Approval of agenda

The agenda was approved with the following additions:

- Version of EPD, see 12.1 under AOB
- CIM on www.ediel.org, 12.2 under AOB

2 Approval of previous meeting minutes

The minutes from previous meeting were approved

3 Review of www.ediel.org

Carsten (Energinet.dk) has made a new web page at www.ediel.org, where the NBS BRS v1r1A and the TSO/NPS BRS are published. It is a simple web page where only the documents are listed, i.e. we should add some text. The web page was reviewed, together with the *Nordic TSO XML project web-page* and. It was agreed to update both pages.

Homework:

- Ove will make a proposal for updated text for the “Nordic TSO XML project” web-side, based on the introduction in the Schedule BRS.
- Ove will make a proposal for the NBS page at www.ediel.org:
 - Include an introduction to NBS, based on the introduction to the NBS BRS
 - Include a link to www.nbs.coop
 - Explain the difference between version 1.0 and 1.1 of the BRSs

4 Review of NEMM code list

The current code list was reviewed and the following updates agreed:

- All A-codes was removed
- N-codes used by the NorNed project was kept
- Codes not used anymore will be shown as “Deprecated” in the Description column and no text in the Name column. The reset of the text will be “Hidden text” only shown in the Word version.
- Code lists not used at all, such as the “Domain Type Code”, was completely removed

Homework:

- Ove will hide unused codes, send the code list to NEG for 14 days of comments and thereafter publish it.

5 Maintenance requests to ENTSO-E

Jon-Egil informed that the ERRP project will start up again early next year.

The homework from previous meeting will be continued:

- Jon Egil will ask WG-EDI to change the cardinality of Reason Text to [0..1] in the ERRP Reserve Allocation Result Document. The Reason Text is optional in the textual description and in the XML Schema.

6 Status for implementation verification

The homework from previous meeting will be continued:

- Jan will continue his homework to see if the documents specified by NEMM will fit the information exchanged as EDIFACT document in Sweden today (related to new principles for time series identification in Sweden, after the introduction of UTILTS).

The BRS for Schedules was updated according to Reason Codes used in Denmark for the Confirmation Report.

See also item “7, Trade in the primary reserves market”

Homework:

- Ove will update the BRS for Schedules, send to NEG for comments (14 days) and publish it on www.ediel.org.

7 Trade in the primary reserves market

NEMM documents will be used for trade in the primary reserves market between the TSOs, i.e. chapter 6.4, 6.5 and 6.6 in the BRS for Nordic Trading System. In the first phase, SvK and Energinet.dk will send Bids to Statnett, who will return a Reserve Allocation Result Document. The market will have different rules than the national Norwegian Activated Frequency Reserves market, e.g. the Norwegian “Product ticker” will not be used between the TSOs.

The Reserve Bid and Reserve Allocation Result Documents are expected published after the WG-EDI meeting December 3rd and 4th. When these schemas are available, we will add Nordic Z-codes and publish them at www.ediel.org.

We will also make a proposal for schemas for the NEMM Auction Specification Document:

During this item, it was noted some inconsistencies in the Trade BRS, i.e. the class diagrams should include the complete ENTSO-E class diagram and the tables should exclude the elements not used in the Nordic countries. It was also agreed to use an updated Trade BRS as “Implementation Guide” for trade in the primary reserves market.

Homework:

- Ove (Erik) will make a proposal for schemas for the NEMM Auction Specification Document:
 - Base the document on ECAN Auction Specification Document
 - Use ENTSO-E CC schema
 - Use national extension schema for Z-codes
 - Similar, restrict the codes that can be used to the codes available in the table in the BRS.
 - The schemas will be published at www.ediel.org
- Ove (Erik) will add Nordic Z-codes to the Reserve Bid and Reserve Allocation Result Documents, when these are published (after the WG-EDI meeting December 3rd and 4th), and thereafter publish them at www.ediel.org
- Ove will update the Trade BRS, i.e. the class diagrams should include the complete ENTSO-E class diagram and the tables should exclude the elements not used in the Nordic countries

8 Review of “To be discussed and agreed” (Appendix A from the agenda)

The “*To be discussed and agreed*” appendix was reviewed:

1. Follow up on *Special rules related to NOIS*:
 - Reason codes have to be sent in a separate time series. The related quantities must always have a dummy value, but the value will be ignored by NOIS.

Conclusion: NEMM cannot do anything with this item, i.e. it is up to NOIS to change the documents. The item will be removed from the pending list.

2. Follow up on question to the HG on how to handle a *Quantity quality* (metered, estimated...) and “*no-value*” or “*nil*”.

Conclusion: The item has been discussed in ebIX[®] and WG-EDI, see extract from ETC minutes April 23rd 2013 below:

6 Request from the Nordic Ediel Group (NEG) for how to handle missing values

tWG has, based on the note from NEG, asked ETC and WG-EDI to discuss how to handle missing values.

The result from the WG-EDI discussion was that it does not seem to be a topic for the ENTSO-E documents, since this mainly is a topic when sending metered data, which is not a part of the ENTSO-E scope.

A short discussion in ETC showed that ebIX[®] already has a solution, using an “indicator Type” of type Boolean (true or false), which indicates if a quantity, price or others are missing. The solution includes usage of the XML choice, using either the Indicator or the Quantity/Price/...

For EDIFACT/UTILTS the principle should be using the code “46, Non existent” in the corresponding STS segment and for other EDIFACT documents using the quantity qualifier “Z03, No Value”.

Action:

- Fedder will take the result of the ebIX[®] and WG-EDI discussions back to tWG and inform NEG of the result.

Since none of the items in Appendix A are valid anymore, the appendix was removed.

9 Status report to NEG

Error! Reference source not found., Error! Reference source not found. was reviewed and NEMM will propose to NEG to close down the project and create a permanent maintenance group, e.g. NTC (NEG Technical Committee).

A status presentation to NEG was made.

10 Information (if any)

The ebIX[®], EFET and ENTSO-E Harmonisation group meetings planned for autumn 2013 was cancelled because of lack of time from the convenor, hence ebIX[®] has asked to postpone the publication of the next version of the ebIX[®], EFET and ENTSO-E Harmonised Electricity Role Model V2013-01 until a HG meeting has taken place.

There was an ebIX[®] Forum meeting in the beginning of October, where among others it was decided to continue harmonisation between ebIX[®] and IEC/TC57.

NordREG Task Force Business Process (TF BuP), NEG and the Harmonised Nordic Retail Market project (HNR) will have a “Steering group meeting November 27th, with a Coordination group meeting afterwards. The latter only having the regulator part of TF BuP and NEG.

Jon-Egil and Jan reported from a CIM XML seminar in Brussels last week. The ENTSO-E Acknowledgement document is approved. ESS, ECAN and ESP documents are expected approved in the near future (beginning 2014?).

11 Next meeting

See item 7, Next meeting, under the NBS part of the meeting below

12 AOB

12.1 Version of EPD

The EPD project has been merged into the ECAN project and the latest version of the EPD document can be found in the ECAN IG. The only difference between the ECAN v5.0 and the EPD v2.0 documents is the addition of Curve Type in the ECAN EG.

Homework:

- Ove will update the Trade and Settlement BRSs with the references to ECAN IG instead of the EPD IG. Thereafter the documents will be sent for 14 days of circulation for comments to NEG before publication

12.2 CIM on www.ediel.org

Jon-Egil informed that a Nordic extension of the CIM model, or more precise extensions to some CIM based XML documents will use the namespace <http://www.ediel.org/CIM>.

Ove informed the www.ediel.org web master, Carsten Skou about the namespace usage, during the meeting.

--- NBS---

1 Approval of agenda

The agenda was approved with the following additions:

- **Error! Reference source not found.**, see **Error! Reference source not found.** under AOB
- Means of communication, see 9.1 under AOB

2 Approval of previous meeting minutes

The minutes from previous meeting was approved

3 Content of the NBS acknowledgement document

The HNR project proposes to rename the “Time Series Rejection Class” to “Object Rejection Class”, which was agreed by NEMM. We will send a change request to WG-EDI, also referencing outages, which also will reference other objects than time series.

NBS wants to be able to give error reasons on as detailed level as possible. It was however noted that nobody will be able to read errors on an observation level automatically. It was agreed to:

- Skip the *Time Interval Error class*
- Skip *Senders Object (Time Series) Version*
- Link *Reason Code Type List* to *Reason Code* and not *Reason Text* (error correction in the class diagram)
- *Reason Text* is only used if not approved (different from A01)
- Acknowledgement document class:

- We keep the *Document Version* as optional (used if used in the original business document)
- The *Receiving Document Type* will be shown with a comment “To be discussed and agreed (currently only used in Sweden)”
- We skip *Receiving Payload Name*
- The *Date Time Receiving Document* will be shown with a comment “To be discussed and agreed (currently only used in Sweden)”

We will use A01 or A02 on header level and 999 on Object level if A02 (error) on header level.

It will be added a comment to the *Reason Text* at the object level that the text should be detailed enough for the recipient to understand the error.

Homework:

- Ove will make a change request (MR) to ENTSO-E related to rename of “*Time Series Rejection Class*” to “*Object Rejection Class*”
- Jan will verify if “Receiving Document Type” really is used in Sweden
- Ove will update the Common Nordic XML rules document with a detailed acknowledgment process. The document will be published at www.ediel.org and www.nbs.coop next week.

4 BRS for Nordic Balance Settlement, version 1.1 (including exchanges outside of NBS)

Homework from previous meeting:

- In the ESS Confirmation Report, the *Confirmed document ID* and *Confirmed Document Version* will not be used by NBS. Denmark will verify the need for these elements in the new processes that will be implemented in the Datahub. If needed, it should be discussed making them dependent (only used in Denmark)

Conclusion:

- Will not be used in Denmark, the BRS was updated.

The BRS for Nordic Balance Settlement, version 1.1 was reviewed and the following updates agreed:

- Ove will verify that the class diagrams is according to the ENTSO-E class diagrams, including addition of *Confirmed document ID* and *Confirmed Document Version*. In the tables, elements not used in the Nordic countries will be removed.
- When sending a Confirmation Report back to the one providing a schedule it is not clear in our implementation guide what should be put into the “*Time Series Confirmation*”, e.g. it is not obvious that the “*Sender*” in the attribute “*Senders time series identification*” is the sender of the confirmation report.

We will specify in the Schedule BRS (chapter 7.1.3.1) that there are several attributes that should be the same as they were in the received schedule, see also chapter 8.4 in the ENTSO-E ESS implementation guide.

- In the NBS BRS, chapter 2.3, there are many references to

ENTSO-E ESS Confirmation Report [1]
For details see: BRS for Nordic Trading System [8]

Most, if not all, should instead have a reference to our Schedule BRS.

- NEE had informed that, in the detailed description of *Arrow 4, Hourly metered data per metering point on production, consumption and exchange (chapter 5.1.3)* the Metering point Type code for production and consumption are missing.

It was agreed to specify arrow 4, partly in chapter 5.1.2 and partly in chapter 5.1.3.

During this item a proposal for usage of Coding Schemes was made:

Parties:

Denmark: GS1 (9 or A10)
 Finland: National coding scheme (260/SLY or NFI)
 Norway: GS1 (9 or A10)
 Sweden: National coding scheme (260/SVK or NSE)

MGA:

Denmark: National coding scheme (260/DK or NDK)
 Finland: National coding scheme (260/SLY or NFI)
 Norway: GS1/EIC (9/305 or A10/A01)
 Sweden: National coding scheme (260/SVK or NSE)

MBA:

Denmark: EIC (305 or A01)
 Finland: EIC (305 or A01)
 Norway: EIC (305 or A01)
 Sweden: EIC (305 or A01)

MP:

Denmark: GS1 (9 or A10)
 Finland: National coding scheme or GS1 (260/SLY(/9) or NFI(/A10))
 Norway: GS1 (9 or A10)
 Sweden: GS1 (9 or A10)

Resource objects:

Denmark: National coding scheme (260/DK or NDK)
 Finland: National coding scheme (260/SLY or NFI)
 Norway: National coding scheme (260/SM or NNO)
 Sweden: National coding scheme (260/SVK or NSE)

Homework:

- Ove will verify that the class diagrams is according to the ENTSO-E class diagrams and that elements not used in the Nordic countries NOT is present in the tables.
- Ove will add a text ,for the relevant attributes in the ESS Confirmation Report, that the element should be the same as it were in the received schedule
- Ove will verify the references in chapter 2.3, i.e. reference Schedule BRS instead of Nordic Trading System BRS.
- Ove will add the relevant coding schemes into the tables and the national usage in an appendix in the Nordic XML Rules documents

5 User Guides

The User Guide was reviewed and updated with comments from Jan.

Homework:

- Ove will publish the document at www.ediel.org and www.nbs.coop next week.

6 XML schemas

The schema for the *ebIX[®] Confirmation of Aggregated Data per Neighbouring Grid for Settlement Responsible* is only used in the Nordic countries have to be created

Also other document specifications were reviewed, to see if we need to do any modifications:

The schemas will be published at www.ediel.org after review at next meeting

Erik had made 7 xml-example files, which was reviewed. It was agreed to make one zip-file containing the 7 xml-examples, including:

- Schemas, CCs and Codes
- Include a relative path referencing imported schemas
- Use Code List Responsible Agency and Code List according to the list above.

Homework:

- Ove (Erik) will make the schema for the *ebIX[®] Confirmation of Aggregated Data per Neighbouring Grid for Settlement Responsible*, preferably made from the ebIX[®] UMM model, using the ebIX[®] Transformation Tool (TT).
- Jan and Ove will verify with ETC that a Balance Supplier has been added to ebIX[®] Aggregated Data per MGA (E31, E44)
- Ove will come up with an estimate for the time for using the TT for restricting the ebIX[®] documents by using OCL
- Ove (Erik) will make one zip-file containing the 7 xml-examples, see comments above

7 Information (if any)

None

8 Next meeting

Thursday November 21st, Statnett, 10:00 to 16:00

9 AOB

9.1 Means of communication

Alternatives:

- FTP
- SMTP
- WS, such as
 - MADES
 - AS4
 - Danish Datahub standard (?)

In MADES:

- The client will always sign and encrypt the payload
- The client may compress the payload

Stakeholders:

- NBS
- Four TSOs
- NPS
- Datahubs
- Service providers
- Actors (DSOs, Suppliers, BRPs...)
- Regulators (regarding legislation)

A central question is if the TSOs are willing to host MADES nodes for the national actors. I.e. the first step should be to verify this question with the TSOs. Jon-Egil volunteered to make a short memo:

- Explaining the concept of MADES
- Draw up consequences for the Nordic TSOs
- Cost elements

Homework.

- Jon-Egil will distribute the memo related to MADES to NEMM and NEG within November 11th
- Discussion at next NEG meeting November 26th:
 - Presentation of MADES
 - Discussion
 - How to proceed, i.e. how to get a decision

9.2 Preparations for NBS Messaging Forum

Jari and Ove will be there the whole day, while Jan will be attending until 13:00. Jon-Egil will attend until 11:00 for the item regarding the communication means.

The following items should be presented during the forum:

- Presentation of coding schemes
 - Could NBS require EIC codes for MGAs in all Nordic Countries?
- Presentation of acknowledgement process
- Do we want Encryption?

Proposal for agenda for NBS Messaging Forum 09:00 to 15:00:

1. Welcome and practical arrangements
2. Approval of agenda
3. Presentation of NBS, Morten
 - a. Status for development
 - b. Short presentation of NBS processes and business rules
 - c. Address portal
4. Presentation of possible means of communication, Jon-Egil
 - a. MADES
 - b. SMTP

- c. FTP
 - d. Need for encryption
 - e. Need for compression
5. Presentation of NBS message exchanges, Jan (Scheduling phase and Ove Metering phase)

12:00 Lunch

- 6. Discussion related to questions and comments for national Ediel groups
- 7. Next meeting
- 8. AOB