

Minutes: NEG Technical Committee Date: Tuesday August 25 th , 2015 Time: 09:00 – 16:00 Place: Helsinki September 3 rd , 2015	 NEG Nordic Ediel Group
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- Present:** Jan Owe, Svenska kraftnät
Jari Hirvonen, Fingrid
Jon-Egil Nordvik, Statnett (Convenor)
Mats Elmér, Svenska kraftnät
Ole Fredsø Weigelt, Energinet.dk
Ove Nesvik, Edisys (Secretary)
- To (NTC):** Antti Niemi, Nord Pool Spot
Christian Odgaard, Energinet.dk
Eveliina Ishii, Nord Pool Spot
Hanna Blomfelt, Nord Pool Spot
Jan Owe, Svenska kraftnät
Jari Hirvonen, Fingrid
Jon-Egil Nordvik, Statnett (Convenor)
Kim Dahl, Statnett
Marja Eronen, Nord Pool Spot
Minna Arffman, Fingrid
Ole Fredsø Weigelt, Energinet.dk
Ove Nesvik, Edisys (Secretary)
- (NBS):** Mats Elmér, Svenska kraftnät
Minnakaisa Ahonen, eSett
Morten Hilger, Energinet.dk
Morten Torgalsbøen, Statnett
Niko Jauhiainen, eSett
Pasi Lintunen, Fingrid
- CC:** Anne Stine Hop, Statnett
Oscar Ludwigs, Svenska kraftnät
Tor Bjarne Heiberg, Statnett
Tor Åge Halvorsen, NordPool
- Appendixes:** [Appendix A](#), “To remember list”
[Appendix B](#), Bilateral trade confirmation reports
- Attachment:** 
Bilateral trades confirmation report: , see item 6, Status for NBS BRS (and related UserGuide)
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weatherDocument_Draft 3-1.0_2015-08- , see item 21.2, CIM based Weather document under AOB

--- Combined NBS and Ordinary NTC---

1 Approval of agenda

The agenda was approved with addition of:

- Request document, see 21.1 under AOB
- CIM based Weather document, see 21.2 under AOB

2 Approval of previous meeting minutes

The minutes from previous meeting were approved with the comment that action items from the June GoToMeeting not was added to today's agenda (however dealt with) and that appendix B (Venue...) should have been removed.

3 Recommendations for TSO communication protocols

Nothing new reported. The item will be followed up at coming meeting.

Under this item it was noted that the TSOs are discussing the visions for future communication protocols and that there is a need for recommendations. NEG (NTC) might be the right place to draft such recommendations.

4 Status for NBS XML schemas

4.1 Actions (homework) from previous meeting:

- Mats will try to get the Production Unit Type renamed to Asset Type in the NBS handbook etc. Alternatively addition of a parentheses after the Production Unit Type in the handbook: "(called Asset Type in the BRS)".
Status: The handbook will be changed, i.e. using a bracket. The action item was closed.
- Jari will ask Unicorn for approval of the changed XML schemas
Status: Jari has asked several times, but so far without any response. Continued action.
- Ove will publish the XML schemas and related documentation as soon as Unicorn has approved it
Status: Still awaiting an approval from Unicorn. Continued action.
- Ove will add "Z68, Production Units own consumption" to the "NEG (ebIX® based) Aggregated Data per MGA (E31, E44)" schema
Status: Updated, but not published.

New action:

- We keep the current version when publishing the update, i.e. 2013.A (2013pA)
- Jari will inform Unicorn and thereafter inform Ove when the new version can be published
- Ove will add a text to the web site when publishing the schemas, e.g.;

Corrected schemas (Addition of Business Type "Z68 Production Units own consumption" in NEG (ebIX® based) Aggregated Data per MGA (E31, E44)). Only used in Finland

- Ove will rephrase the explanatory parentheses related to **A04** Consumption (Total consumption) to “(General consumption)”

Status: Updated in BRS, but not published.

- Ove will make a MR, for the Business Type “**Z68**, Production Units own consumption”, for WG-EDI and send it to Jon-Egil before next WG-EDI meeting September 8th and 9th

Status: The MR is sent to Jon-Egil, who will submit it to ENTSO-E

- From GoToMeeting June 23rd: Ove will send a mail to Mike, asking for a status for correction of ESS xml schemas.

Status: Answer from Mike:

I don't have an update on the subject however, I believe work began on cleaning up the website last week. I am not directly involved in this work. Have you taken a look at the website? If not I would suggest you do. It would be the quickest way to see if everything is in order.

The ENTSO-E web site is not updated!

4.2 How to version ebIX® based XML schemas?

Jan looked up an old ebIX® document where it was stated that the last letter of the version, e.g. 2013.A, should be increased when smaller changes are made (new codes addition of optional fields etc.).

Conclusion:

- We follow this rule, with exception of the added business type **Z68** (see above), where we only add a text explaining the correction.

5 Status for BRS for Master Data Documents (and related UserGuide)

Actions (homework) from previous meeting:

- Mats will verify if “**Z02** Only Losses”, “**Z03** Industrial” and “**Z06** Production” is needed

Status: “**Z03** Industrial” and “**Z06** Production” is needed. Only losses can be removed (**Z02** Only Losses)

Action:

- Ove will update UserGuide, BRS, Schemas etc. and publish the documents when Unicorn has approved the XML schemas or as soon as possible thereafter.
 - Mats will verify the NBS need for “**Z0X** Profiled” as an option in the attribute “MGA Type”
- Status:** Postponed – This is a non-critical issue at the moment
- Ove will rename Production Unit Type to Production Type in BRS, UG, Schemas, Code List etc. and publish the documents as soon as possible, but after having finalised the XML schemas.

Status: Done, but publication postponed until the schemas are approved

Ove asked if we should add the explanation of Capacity Agreement Identification to the NBS BRS (ref previous minutes)? If yes, where?

The Bilateral Trade ID (Capacity Agreement Identification) is metadata for trade on supplier level. The BRP sends bilateral trade with InParty = BRP1 and OutParty = BRP2. If the trade is between two suppliers, then the Bilateral Trade ID is added to the message. The Bilateral Trade ID is generated by eSett when the BRP enters (structures) which trade relations (on a supplier level) this has balance responsibility for. The suppliers can then be identified by the Bilateral Trade ID.

Action:

- Ove will add text related to Bilateral Trade ID to the BRS and UserGuide and publish the documents when approved by Unicorn

6 Status for NBS BRS (and related UserGuide)

Jan and Mats had provided examples regarding confirmation reports for bilateral trade, i.e. two scenarios with bilateral trade messages from the BRPs and related confirmation reports sent back from Basse, see Appendix B and attached updated Excel sheet.

- It was noted that the delta value is defined as $\Delta = \text{Value}_{\text{BRP sale}} - \text{Value}_{\text{BRP purchase}}$. The latest values from the BRPs is used when calculating the delta value.

Action:

- Ove will update the BRS and send it to NTC core members
- Ove will publish the BRS as soon as the schemas are agreed by Unicorn
- Ove will update the UserGuide with the added text in the BRS (see yellow text in BRS)
- Jan will update the Excel example and send it on circulation for comments one week. Thereafter Ove will publish it

7 Status for NBS BRS for TSO/NPS communication

7.1 Type of bilateral trade

At the previous NTC meeting it was proposed some changes to the BRS, related to the requirement for the type of bilateral trade. However, Mats informed that these changes not are needed.

7.2 Durations in NEG ERRP Reserve Allocation Result Document

Jan has noticed that Activation Duration, Resting Duration, Minimum Duration, Maximum Duration are part of the NEG ERRP Reserve Allocation Result Document, but not in the NEG version (nor in the schema). Should those be added to our schema, and if not, notice the difference in the BRS (because you cannot then just add Settlement Amount to the ENTSO-E schema, you have also to delete four items from the ENTSO-E schema).

Action:

- Ove will take the latest ENTSO-E document and add Nordic requirements (see class diagram in BRS) and correct the schema
 - Publish it on ediel.org with a text “corrected to be in line with the BRS”
 - Still using version 1-0

7.3 Reason codes in NEG ERRP Reserve Allocation Result Document (Tertiary control)

All had as homework to verify the Reason codes in NEG ERRP Reserve Allocation Result Document (Tertiary control), and to review the proposal (questions) from Norway, regarding which codes to use:

- Shall «Ordinær regulering» (Ordinary regulation) be mapped to **Z31**?
- Shall «Spesial regulering» (Specially regulation) be mapped to **Z35**?
- Shall «Produksjonsflytting» (Move of production) be mapped to **Z24** or **Z34**?
- Shall «Kvartersjustering» (Quarterly adjustment) be mapped to **Z24** or **Z34**?
- Shall «Produksjonsglatting» (Production smoothing) be mapped to **Z39**?

During the meeting, a table was drafted with the Reason codes specified in the BRS and which of these that are used in Finland, Norway and Sweden:

Reason Code	Description	FI	NO	SE
Z22	Supportive power			
Z23	Special Regulation			
Z24	Quarterly adjustments		Move of production or Quarterly adjustment?	
Z25	Ordinary regulation			
Z26	Transit triangle		✓	
Z27	Transit redispatch		✓	
Z28	Transit SB Loop Long		✓	
Z29	FCR (Frequency Containment Reserve (FCR) is an automatic and momentarily regulation, to adjust the physical balance in the power system)		✓	✓
Z30	FRR-A (Frequency Restoration Reserve - Automatic (FRR-A) is an automatic reserve, activated continuously by the frequency)		✓	✓
Z31	FRR-M, Balancing Power (Frequency Restoration Reserve - Manual activated reserves (FRR-M), Balancing Power)		Ordinary regulation	✓
Z32	FRR-M, Countertrades (Frequency Restoration Reserve - Manual activated reserves (FRR-M), Countertrades when TSO need to maintain (replace) transfer capacity)			
Z33	FRR-M, Peak Load Reserve Regulation (Frequency Restoration Reserve - Manual activated reserves (FRR-M), Peak Load Reserve Regulation when no commercial bids are available for balancing)			

Z34	FRR-M, Quarter regulation (Frequency Restoration Reserve - Manual activated reserves (FRR-M), Quarter regulation when TSO need transfer of production (usually start 15 min earlier))		Move of production or Quarterly adjustment?	
Z35	FRR-M, Special Regulation (Frequency Restoration Reserve - Manual activated reserves (FRR-M), Special Regulation where regulation does not affect the regulation price)		Specially regulation	
Z36	Hour Change Regulation (In order to reduce problems encountered at the turn of the hour in the Nordic countries or in Finland, Fingrid reserves the right to transfer the planned changes to begin 15 minutes before or after the planned moment)			
Z37	Power Transaction (Fixed price transaction used for specific purposes outside of ordinary regulation)			
Z38	TSO Internal Countertrades (The time series concern TSO Internal Countertrades)			
Z39	Day Ahead Production Adjustment (Energy (production) moved from one hour to another to avoid major changes between hours)		Production smoothing	✓

Action:

- Jari, Jan/Mats and Jon-Egil will review the table above and mark the codes used in the respective country
- When the homework is finalised, Ove will remove unused codes and publish the BRS

7.4 Measure Unit Price in NEG ERRP Reserve Allocation Result Document

Jan propose to Remove Measure Unit Price from the example and Measure Unit Energy Price from the NBS TSO/NPS BRS, from the NEG ERRP Reserve Allocation Result Document.

Action:

- Ove will Remove Measure Unit Price from the example and Measure Unit Energy Price from the NBS TSO/NPS BRS, from the NEG ERRP Reserve Allocation Result Document – when sending amounts

8 Status for NPS implementation of NEG Documents

New updated XML schemas, based on ENTSO-E namespaced schemas are published on www.ediel.org.

9 Status BRS for Nordic Operational System (RPMimp project)

Jesper (Fingrid) had informed that eSett will use regulation objects and asked if this will change anything? The answer was **no**.

The comments in the BRS was reviewed and the following changes agreed:

- “Business type **A12** Secondary control (A time series concerning secondary reserve) (**FRR-A**, earlier **LFC**)” was changed to “**A96** Automatic frequency restoration reserve”
- Business type “**A10** Tertiary reserve” was changed to “**A97** Manual frequency restoration reserve”
- The following Process Types was kept, since there is no Process type for FRR-A and FRR-M from ENTSO-E. The alternative is making NEG Znn codes:

- A29** Secondary reserve process, i.e. FRR-A market
- A30** Tertiary reserve process, i.e. Balance regulation market

Action:

- Ole and Jon-Egil (Ivar) will verify the rest of the comments in the BRS
- The verification is done by mail and thereafter Ove will publish the BRS

10 Review of BRS for schedules

Actions (homework) from previous meeting:

- Ove will for the next face-to-face meeting prepare proposals for tables to link the sequence diagrams to the document tables and prepare dependency matrixes where this can be useful.

Status: Postponed

11 Review of comments to BRS for Nordic Trading System

Actions (homework) from previous meeting:

- Ove will for the next face-to-face meeting prepare proposals for tables to link the sequence diagrams to the document tables and prepare dependency matrixes where this can be useful.

Status: Postponed

12 Status for continuation of the HNR project

Nothing new reported.

13 Status for MRs to ENTSO-E

Continued actions (homework) from earlier meetings:

- Jon-Egil will ask WG-EDI to request the addition of Trader (NEMM 2013/113B and 2012/97) to the ebIX®, EFET and ENTSO-E Harmonised Role Model

Status: Postponed

14 Status for implementation of MADES

No information exchanged.

15 Status for EIC code for identification of eSett

Continued actions (homework) from earlier meetings:

- When the EIC code is allocated, Ove will update all XML examples

Ove has added eSett EIC ID to all XML example files:

```
<SenderId v="44X-00000000004B" codingScheme="A01"/>
```

The examples will be published together with new (updated) XML schemas.

16 Review of BRS for Determine Transfer Capacity

Update of the document is postponed until it is time to document new processes. Test is planned summer/autumn 2016. The documents will be based on CIM documents

17 ENTSO-E IEC/CIM schemas

The item was postponed.

18 Review of www.ediel.org

The item was postponed.

19 Information (if any)

No information exchanged.

20 Next meeting

October 5th 2015, Oslo (Gardermoen?)

21 AOB

21.1 Request document

The request document used by Basse is a “specialised Unicorn version”, i.e. it uses “Data Flows” instead of ENTSO-E elements, such as Process Type and Business Type.

NTC will not add this specification to the BRS but instead add a reference to the eSett document and add a few sentences in a new chapter “7, Information services” in the BRS.

It was also noted that the following codes for “Data Flow = REP” should be changed:

Z55 -> B20	Balance up regulation price
Z56 -> B21	Balance down regulation price
Z57 -> B22	Main direction
Z58 -> B23	Consumption imbalance price
Z59 -> B24	Production sales imbalance price
Z60 -> B25	Production purchase imbalance price

Z61 -> B26 Average balance price between MBAs (Renamed to “MBAs prices between Market Balance Areas”)

Action:

- Ove will add a reference to the eSett document documenting the Request Document and add a few sentences in a new chapter “7, Information services” in the BRS

21.2 *CIM based Weather document*

Jon-Egil had distributed a document and all are asked to send him comments before September 20th (attached).

Action:

- All are asked to send Jon-Egil comments to the CIM based Weather document before September 20th

Appendix A “To remember list”

Item #	Item	Description	Status
1.	EMFIP Configuration Market Document	Within EMFIP there is a document called Configuration Market Document. NTC don't think that the document can be use for any master data in the foreseeable future. However, the topic should be kept in mind and we might get questions why we didn't use it. At a later stage, NEG might do some work to influence the European standards.	TBD

Appendix B Bilateral trade confirmation reports

The NBS project has been asked to provide examples regarding confirmation reports for Bilateral trade to be sent back from Basse.

In the Excel file Mats and I have described two scenarios.

The first scenario is described on line 5-11 (and 25-79).

The second scenario is described on line 16-21 (and 81-118).

The first scenario goes like this:

- BRP1 sends a message with the traded volume 100.
- 1a) Basse responds with two Intermediate confirmation reports, one to BRP1 and another (with imposed time series) to BRP2.
 - See cells H5 – N5. And A25 – K44 in the Excel file.
 - In both messages the delta part is zero because it is nothing yet to compare the value with, and it is OK for just one actor to report the bilateral trade.

Note: Since each message contains two time series (one with the quantity to be used in the settlement, and another with the delta value) these two time series id:s should be identical.

- See the files:
 - ESS confirmation report - TS confirmation 20150811-BRP1-EX1.xml
 - ESS confirmation report - Imposed TS 20150811-BRP2-EX1.xml
- 2) BRP2 now sends a message with the traded volume 95.
- 2a) Basse responds with two Intermediate confirmation reports, one to BRP2 and another (with imposed time series) to BRP1.
 - See cells H8 – N8. And A45 – K61.
 - Here the delta value is 5.
 - See the files:
 - ESS confirmation report - TS confirmation 20150811-BRP2-EX2.xml
 - ESS confirmation report - Imposed TS 20150811-BRP1-EX2.xml
- 3) BRP2 still disagree with the trade and sends a new message with the traded volume 107.
- 3a) Basse responds with two Intermediate confirmation reports, one to BRP2 and another (with imposed time series) to BRP1.
 - See cells H11 – N11. And A63 – K79.
 - Here the accepted volume is 100, and the delta value is 7.
 - See the files:
 - ESS confirmation report - TS confirmation 20150811-BRP2-EX3.xml
 - ESS confirmation report - Imposed TS 20150811-BRP1-EX3.xml

To be investigated: Are the examples, sent in this e-mail, correct related to the “sign” of the delta value? I.e. the direction between the trading actors?

The second scenario goes like this:

- BRP1 sends a message with the traded volume 100, i.e. same as in the first scenario.

- BRP2 sends a message with also the traded volume 100. But in the other direction.
- 2a) Basse now responds with two Intermediate confirmation reports, one back to BRP2 and another (with imposed time series) to BRP1.
 - Both volumes becomes 0 since Basse can't now the correct direction. And the delta value should be 200.
 - See cells H19 – N19. And A84 – K100.

To be investigated: How should an XML example look like in order to correctly describe the delta value? Mats and I also thinks that the delta value should be 200, and not 100, since it is calculated as the difference between what has been reported.

- 3) BRP2 corrects his trade and reports a new message with the trade 100, using the same direction as BRP1 in his first message.
- 3a) Basse sends two Intermediate confirmation reports, where BRP1 gets the imposed time series.
 - The volume to be used in the settlement is now 100 and the delta value is 0.
 - See cells H19 – N19. And A84 – K100.
- After gate closure 1 in Scenario 1, BRP2 corrects his bilateral trade at the Online-Service (i.e. accepting the BRP1 Bilateral traded volume).
 - Then a (first) Final confirmation report is sent to both BRP:s.
 - See columns O – X in the Excel file.
- After gate closure 2 in Scenario 1, Final confirmation reports is sent to both BRP:s.
 - See columns AA – AI.

We would like to get your comments long before the meeting in Helsinki, so please respond soon. The difference between 95 - 100 gives the delta value 5, but the calculation between seller (out party) and buyer (in party) is -5.

Since the matched value is 95, it is then rather BRP1 that should "sell" (reduce with 5) to get down to 95 – should then BRP1 be put into Out party and BRP2 into In party in the Delta part of the message? The difference between 107 - 100 gives the delta value 7. The matched value is 100, it is then rather BRP2 that should reduce with 7 to get down to 100 – should then BRP2 be put into Out party and BRP1 into In party in the Delta part of the message? On the other hand, BRP2 is already saying that he is selling 107 to BRP1, he should then not sell 7 more... What is correct? Who should be specified in Out Party and who should be specified in In Party? Or does it matter? It is the delta value that is sent, and Out Party and In Party can just be taken from the received message, or?

Note that in the Final confirmation reports there are no delta values.

I think we will need to update the guides in Helsinki in order to describe the special things related to delta values:

- 1) Not used in Final confirmation reports
- 2) Using the same Time Series ID as for the quantity. Otherwise there is no link back to the sent message, and no link between the two time series.