

Minutes: NMEG meeting Date: Thursday November 29 th , 2018 Time: 09:00 –11:00 Place: GoToMeeting	 NMEG Nordic Market Expert Group
November 29 th , 2018	

Present: Fedder, DK
Jari, FI
Jon-Egil, NO (Convenor)
Ove, NO (Secretary)
Teemu, FI

To (NMEG): Anne Stine, NO
Christian, DK
Fedder, DK
Jan, SE
Jari, FI
Jon-Egil, NO (Convenor)
Ove, NO (Secretary)
Teemu, FI

CC: Hans Erik, NO
Minna, FI

Appendix A: "To remember list"

Appendix B: Addition of description of Nordic codes in urn-entsoe-eu-local-extension-types.xsd

Appendix C: Codes to be updated in BRSs or are candidates for MRs

Appendix D: Overview of the usage of xml-schemas in the Nordic countries

Attachment: None

1 Approval of agenda

The agenda was approved with the following additions:

- Update of NBS BRS for TSO/MO, see item 19.1 under AOB;
- Position regarding asynchronous communications in Nordic area (MADES), see item 19.2 under AOB.

2 Approval of previous meeting minutes

The minutes were approved with the following comments:

- Fingrid is testing the activation document with three parties.
- Addition of a missing link under item 5: "The draft roadmap (see)" ...

3 eSett: security of the SMTP channel

From Minnakaisa:

Dear all,

We are concerned about the security of the SMTP channel. Our main protection has been to allow traffic only from customers' dedicated IP addresses. But now several customers have started to use cloud services for SMTP messaging. This forces use to open wide range of IP addresses domains etc. which weakens our protections remarkably.

Also eSett carried out external security audit performed by NIXU and they recommended to enhance SMTP channel security with S/MIME functionality. We would like to hear your opinion on whether we should start to use S/MIME with all SMTP traffic. We recognize that this requires also changes in the customers' system and we would like to know if you recommend this change and commit to make the necessary changes to your countries regulatory requirements (or in the documentation where the communication standard is defined).

From our point of view the benefits of S/MIME are:

- An encryption and message signing
- Verification that an email message has been originated from the signer and has not been altered

We look forward hearing your opinion whether this should be implemented and taken into use. After discussing with the TSO we have understood that ECP is not ready for all the market participants before year 2020. Therefore, we are considering if this improvement will be beneficial for the market messaging security.

I also would like to know if your group has already started review the NBS market messages (Business Requirement Specifications (BRS) etc) for the 15 minute settlement purposes. We plan to start the project with our vendor in the beginning of 2019 and we would appreciate if the review/update of market messages has been carried out by then. As the HTR project has promised to be in touch with you we are not aware of the time-schedule of the update. If there is a need for eSett personnel to participate in the review, kindly let me know and we will allocate/nominate resources for this.

Our wish is that the changes made to the messaging are as small as possible because the change 15 min settlement and one balance model is a rather big challenge for us and most likely to the customers too. Therefore, we prefer to avoid any unnecessary changes to the market messages. Also we need to remember that the hourly messages will be used at least in Finland and most likely in Sweden too because some market participants will continue their operation in the hourly resolution and message splitting or profiling will be used.

Best regards,

Minnakaisa

Regarding security in the communication protocol, NMEG propose waiting for MADES instead of implementing S/MIME. Introduction of S/MIME or other encrypted means will probably not be possible to implement before end of 2019 anyway. In the meantime, NMEG proposed using the "Sender policy framework" (https://en.wikipedia.org/wiki/Sender_Policy_Framework). Here you can define which servers you will accept mail from, hence all spam will be rejected. And, you don't have to handle certificates and low-level encryption.

Regarding the introduction of 15 minutes time series, the only change we see in the documents is adding a 15 minutes resolution. I.e. addition of a new code for 15 minutes "PT15M". This is a simple update, but we need to know if this applies for all documents or only some. Currently the following documents are specified in the NBS BRSs:

BRS/document	Current resolution
NBS BRS	
NEG (ebIX® based) Validated Data for Settlement for Aggregator (E66, E44)	PT1H or PT60M

NEG (ebIX® based) Aggregated Data per MGA (E31, E44)	PT1H or PT60M
NEG (ebIX® based) Aggregated Data Per Neighbouring Grid For Settlement Responsible (E31, E44)	PT1H or PT60M
NEG Confirmation of Aggregated Data Per Neighbouring Grid From Settlement Responsible (A07/A08, Z44)	PT1H or PT60M
NEG ESP Energy Account Report Document (EAR)	PT1H or PT60M
ENTSO-E ESS Schedule Document	PT1H or PT60M
ENTSO-E ESS Confirmation Report	PT1H or PT60M
NBS BRS for TSO-MO	
ENTSO-E ESS Schedule document	PT1H or PT60M
ENTSO-E ERRP Planned resource schedule	PT1H or PT60M
Ediel ERRP Reserve Allocation Result Document	PT1H or PT60M
Ediel ECAN Publication Document	PT1H or PT60M

Action:

- Ove will make a proposal for answer and send it to NMEG for comments until Wednesday December 5th

4 NMEG-NORCAP Project

Background: Jon-Egil will inform us at the meeting

References (links): None.

Action(s):

What to be decided,

discuss or inform: Introduction to the project and actions for NMEG.

NORCAP needs a first draft of a BRS published by the end of January 2019. This must contain the CRAC document. There will be a planning meeting tomorrow (by phone), a face-to-face meeting in Copenhagen (RFC offices) next Friday (December 7th).

One of the days of the next NMEG meeting (preferably the first day, January 8th) will be dedicated to the NORCAP project.

Action:

- Jon-Egil will distribute documentation to NMEG Friday November 30th, 2018.

5 Status for a common meeting with NEAT

Background: NIT is taking over as “home” for NMEG from MSC and consequently we should have a common meeting, e.g. half day (same time and place) with NEAT (Nordic Enterprise Architecture Team) to see how we can cooperate.

References (links): None.

Action(s): Jon-Egil will try to find a time for a common meeting with NEAT.

What to be decided, discuss or inform: Status for a common meeting with NEAT

Action:

- Jon-Egil will get the NEAT meeting schedule and NMEG will try to participate on one of these.

6 Making a common Nordic downstream market BRS based on CIM, for exchange of metered data – Main item for the first day

Background: The topic was initiated at the NMEG meeting March 2018. A possible Nordic downstream market BRS is dependent on active involvement and ownership from the hubs.

We will start the work on making a common Nordic downstream market BRS based on CIM, by making a common CIM based document for exchange of metered data:

- a) We will give priority to metered data for Metering Points and thereafter looking into aggregated data.
- b) We will as basis use the current class diagrams from the Nordic data hubs and NBS.

References (links): Minutes from NMEG meeting March 7th, 2018 (see [Statnett eRoom](#) – 02 Meetings).

Action(s): Ove will finalise the “Validated data for billing” document and make a list over issues, such as how to model “Type of Metering point” - to be continued at our next meeting.

What to be decided, discuss or inform: Continue modelling “Validated data for billing”.

The item was postponed.

7 High-level road map for NMEG

Background: NMEG has drafted a Roadmap that will be forwarded to NEAT and NIT for approval.

References (links): 1) The draft roadmap (see [Statnett eRoom](#) – 03 Documents for exchange).

Action(s): Ove will clean up the document and send it to Jon-Egil, who will forward it too NEAT and thereafter to NIT.

What to be decided, discuss or inform: Status for approval by NIT.

The item was postponed.

8 Status for new host for www.ediel.org

Background: Currently Energinet is hosting www.ediel.org, but Energinet would like to find another home for the web site. Conclusions from previous meeting:

- We go for Webhuset, where Edisys has good experience.
- We “Hire a Nerd” for a few hours to set up the first draft.
- We create the mail-address secretary@ediel.org.
- We keep the two latest versions of the IGs and add a note that secretary@ediel.org Ove can be contacted for later versions.

References (links): None.

Action(s): Ove will continue with the move and try to finalise the actual move before the end of the year.

What to be decided, discuss or inform: Status for new host for www.ediel.org.

Ove informed that getting a test site up and running using WordPress has taken more time than expected. However, it seems that this finally is OK.

Fedder mentioned that there is an alternative using WordPress hosted by Energinet. But it was decided to try out Webhuset first.

9 Status for NBS BRS for Master Data

Background: The NBS BRS for master data was published June 6th, however with a comment *“Note: It is under discussion if the inbound (to eSett) Regulation Object Data-flow should contain the full set of Resource Objects or only those that have been created, updated, or deactivated. If the latter option is chosen, a Status element (A14 Creation, A15 Update, A16 Deactivation) will be added”*.

References (links):

Action(s): Jon-Egil will follow up the handling of *the inbound (to eSett) Regulation Object Data-flow*.

What to be decided, discuss or inform: Status for the new (updated) NBS documents.

The item was postponed.

10 BRS for Nordic Operational System

Background: The Activation Document will be implemented in Norway and Sweden, first in Sweden (within this year), hence there is a need to update the “Operate BRS” with a CIM based Activation Document.

References (links): The draft BRS is published at [Statnett eRoom](#).

- Action(s):**
- 1) All are asked to check if the sequence diagram in chapter 2.3 is correct, with a special focus on Activate and Report.
 - 2) All to verify if an activation price is sent or if it only is the Imbalance price that is sent in the Balancing Market Document in chapter 5.1.2.3.

What to be decided,

discuss or inform: Review of the BRSs and if OK: publish it at www.ediel.org.

The item was postponed.

11 BRS for schedules (postponed until we start a project together with NBM)

Background: The latest version of the BRS for Schedules was published in February 2014. Since then the scheduling processes has changed and NMEG is working on updating the document.

References (links): The draft BRS can be downloaded from [NMEG working documents](#).

Action(s): The following actions will be reopened when we start a project together with NBM (Nordic Balancing Model):

- 1) Jan and Fedder will check the dependency matrix for ESS schedule document and ESS confirmation report, chapter 7.1 and 7.3.
- 2) Fedder, Jan and Jari will verify if “A09 Finalised” is (will be) used for the ERRP Planned Resource Schedule Document from BRP to SO, or if it is only “A14 Resource Provider Resource Schedule (Operational schedule)” that will be used (as in Norway), ref. chapter 7.4 in the Schedule BRS; *SvK and Fingrid will be using A14. Energinet is pending.*
- 3) Everyone should verify and possibly update the “Used in” column in chapter 7.4.3;
- 4) Jari will find Finnish usages of Business types in chapter 7.4.4;
- 5) Everyone should verify and possibly update the “dependency matrix” in chapter 7.4.5.

What to be decided,

discuss or inform: Review of chapter 7 and the rest of the BRS.

The item was postponed.

12 Status and update of other Nordic BRSs and other documents if needed

Background: NMEG is responsible for a set of BRSs that are published at www.ediel.org and Jan have some proposal for updates of the NBS BRSs.

References (links): None.

Action(s): None.

What to be decided,

discuss or inform: Verify that all BRSs are up to date and if not, update it (or them).

The item was postponed.

13 XML schemas (postponed until we start a project together with NBM)

Background: The NMEG set of schemas, including extended table with TSO columns, are shown in Appendix D.

A request from Jan is shown in

References (links): The NMEG set of schemas are shown in Appendix D.

Action(s): When we start a project together with NBM (Nordic Balancing Model), everyone are asked to find what versions of xml-schemas are used to day in different projects and come up with proposals for new schemas and/or sets of schemas that should be published at www.ediel.org.

What to be decided, discuss or inform: Verify the list of proposals for new schemas and/or sets of schemas, from the NMEG participants, that should be published at www.ediel.org.

The item was postponed.

13.1 Request from Jan regarding documentation of codes in urn-entsoe-eu-local-extension-types.xsd

Background: Jan is missing description of codes in the file urn-entsoe-eu-local-extension-types.xsd, published at www.ediel.org.

References (links): See request in Appendix B.

Action(s): Fedder and Jon-Egil will bring up the question if there is a way of using `xsd:annotation` in the urn-entsoe-eu-local-extension-types.xsd, in the new ENTSO-E CIM Expert Group (CIM-EG).

What to be decided, discuss or inform: Decide if the description should be added.

The item was postponed.

14 Status for MRs to ENTSO-E

Background: NMEG has sent several Maintenance Requests (MR) to ENTSO-E during the last years and some of these (about 10 MRs) has been postponed by WG-EDI. Codes that are candidates for update or MRs, se Appendix C.

References (links): The MRs can be downloaded from [NMEG working documents](#).

Action(s): None.

What to be decided, discuss or inform: Status for the MRs sent to WG-EDI.

The item was postponed.

15 Status for MRs for new codes related to the Balancing document

Background: The Nordic aFRR project needs addition of some new codes, i.e.:

Business type codes:

	Name	Description
Z70	Market price and total volume	A time series concerning market price and total volume

Z71	Import price	A time series concerning import price (the volume-weighted price average of all accepted bids)
Z72	Capacity allocated (excluding price)	The business being described concerns capacity allocation without price information (ref ENTSO-E code B05, which is with price).

Document Type Codes:

Z33	Market result document	Published prices and volumes
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References (links): The MRs can be downloaded from [NMEG working documents](#).

Action(s): Ove will make MRs for the new proposed codes.

What to be decided,

discuss or inform: Status for the MRs sent to WG-EDI.

The item was postponed.

16 Review of Appendix A, “To remember list”

The “To remember list” was reviewed, without making any actions.

17 Information (if any)

Ove informed that the status for the ToR for NMEG has been changed to “Approved by NIT” and published at the NMEG eRoom. If the ToR, or its content, should be published at www.ediel.org will be put on the next NMEG agenda.

Continued action from previous meeting:

- All to check if there are any initiatives towards a common Nordic datahub or a common interface between the hubs.

18 Next meetings

- MCA Technical TF (incl. NMEG), weekly telephone conference, Friday 13:00 – 14:00 (CET) – starting Friday October 21th 2018.
- NMEG meeting, Stockholm, Tuesday January 8th, 2019 (starting 09:00 (CET)) – Wednesday January 9th, 2019 (ending 16:00 (CET)).
- NMEG meeting, Oslo, Thursday March 21st, 2019 (starting 09:00 (CET)) – Friday March 22nd, 2019 (ending 16:00 (CET)).

19 AOB

19.1 Update of NBS BRS for TSO/MO

From Jan:

In the NBS-BRS for TSO-MO we have a table 9 with the following rules regarding FCR:

A28 Primary reserve process	A11 Primary control Z03 Frequency Containment Reserves, Normal (FCR-N) Z06 Frequency Containment Reserves, Disturbance (FCR-D)	Z29 FCR	BRP	✓	✓	✓	✓
A29 Secondary reserve process	A12 Secondary control	Z30 FRR-A	BRP	✓	✓	✓	✓

Table 9: Dependency matrix: Ediel ERRP Reserve Allocation Result Document

The three right-most columns tell if a code is used in “FI”, “NO”, “SE”.

In order to clarify the table the suggestion is to have three rows there (in the three right-most columns) that tells:

A11 can be used in all three countries (currently also in Sweden)

Z03 and Z06 only used in Sweden.

This would then just be a minor update (a clarification) of the BRS.

Proposal from Ove:

Process type	Business type	Reason Code	Tendering Party	Reserve Object	Used in		
					FI	FI	FI
A28 Primary reserve process	A11 Primary control	Z29 FCR	BRP	✓	✓	✓	✓
	Z03 Frequency Containment Reserves, Normal (FCR-N)						✓
	Z06 Frequency Containment Reserves, Disturbance (FCR-D)						✓

The item was postponed.

19.2 Position regarding asynchronous communications in Nordic area (MADES)

We are waiting for comments from Sweden. Unless comments are received today (Thursday November 29th), it will implicitly be endorsed in its current form.

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 used for any master data, outside of the transparency platform, 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 Addition of description of Nordic codes in urn-entsoe-eu-local-extension-types.xsd

From Jan:

At www.ediel.org we have some Nordic codes in the file urn-entsoe-eu-local-extension-types.xsd

However, looking into the one published under <https://www.ediel.org/Sider/NEGCommonDocuments.aspx>, I don't find descriptions of the codes.

If our Nordic code is not expected to be replaced by a common code (i.e. no change request has been sent in, or has been rejected), I would like to see a documentation of the code in the urn-entsoe-eu-local-extension-types.xsd

I can find the descriptions in the file <https://www.ediel.org/SiteAssets/Sider/NEGCommonDocuments/NEG%20Code%20List%20Library%20r4A%2020170419.pdf>

But some time in the future I would also suggest that the urn-entsoe-eu-local-extension-types.xsd-file includes the descriptions.

However it is not urgent, and can wait until more codes are approved and not needed as "local extensions".

From Ove:

Using `xsd:annotation` is not allowed, hence Ove proposed to use text, e.g.:

```
<xsd:simpleType name="LocalMessageType">
  <xsd:restriction base="xsd:NMTOKEN">
    <xsd:enumeration value="A01"/>
    <xsd:enumeration value="Z15"/>
    <!-- Code Name: DATCR activation, move (change) of planned
    production -->
    <!-- Code Description: A document indication a move or change of
    planned production in a Directly Activated Tertiary Control
    Reserve (DATCR) process. -->
  </xsd:restriction>
</xsd:simpleType>
```

Appendix C Codes to be updated in BRSs or are candidates for MRs

- BRS for Master Data:
 - “**Z05** Trader” is used in the Role Code. We have asked for a new Role Code for Trader in the MR NEMM 2013/113B – What is the status?
Status:
 - *We await the ENTSO-E work on network codes*
 - “**Z01** Station Group” is used in the Object Aggregation code. Should we make a MR for it?
Status:
 - *A06 Resource Object should be used instead*
 - **Z04** (Thermal), **Z05** (Wind), **Z06** (Hydro), **Z07** (Consumption) us used in the Asset Type code. Should we make MRs for them?
Status:
 - *New asset types have been issued – item closed*
 - BRS for Schedules
 - The following “Business Type codes” are used:
 - Z17** Technical minimum
 - Z18** Technical maximum
 - Z38** Hydro production
 - Z39** Nuclear production
 - Z40** Thermal production
 - Z41** Wind production
 - Z42** Decentralised production
 - Z43** Gas turbine and diesel production
 - Z44** Other thermal productionShould we make MRs for them?
Conclusion:
 -
 - The following “Business Type codes” are used:
 - Z02** Frequency bias (Nordic code)
 - Z03** Frequency Containment Reserves, Normal (**FCR-N** earlier **FNR**) (Nordic code)
 - Z06** Frequency Containment Reserves, Disturbance (FCR-D earlier FDR) (Nordic code)Should we change one of them to “**A95** Frequency containment reserve” or Should we make MRs?
Conclusion:
 -**Action:**
 -
- NBS BRS:
 - “**Z05** Bilateral Trade” is used in the Process Type Code (ESS). Should we make a MR?
Action:
 -

- *“Z64 Internal trade difference, within a Market balance area, i.e. the difference between trades reported from an out party (seller) and an in party (buyer). The internal trade difference is the delta value between what is reported by the two Balance Responsible Parties”* is used in the Business Type Code. We have asked for a new Business Type Code in the MR NTC 2014/126 – What is the status?
Status:
 -
- NBS BRS for TSO-MO:
 - *“Z05 Bilateral Trade”* is used in the Process Type Code (ESS). Should we make a MR?
Action:
 - See NBS BRS above
 - *“Z52 Bilateral Trade”* is used in the Business Type Code (ESS). Should we make a MR?
Action:
 -
 - The following “Reason codes” are used:
 - Z22** Supportive power
 - 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)
 - 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))
 - Z35** FRR-M, Special Regulation (Frequency Restoration Reserve - Manual activated reserves (FRR-M), Special Regulation where regulation does not affect the regulation price)
 - Z36** Hour Change Regulation (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)

Should we make MRs?

Conclusion:

▪

Action:

▪

- BRS for Trade:

- “Z05 Trader” is used in the Role Code. We have asked for a new Role Code for Trader in the MR NEMM 2013/113B – What is the status?

Status:

- See BRS for Master Data above

- The following “Bid Type codes” are used:

- Z01** Hourly bid
- Z02** Block bid
- Z03** Flexible hourly bid
- Z04** Profile block bid

Conclusion:

- We keep it as is?

- The following “Document Type codes” are used:

- Z03** Auction specification document
- Z05** Area specification document
- Z06** Market connection points document
- Z17** Spot Market Bid Status Report

Conclusion:

- We keep it as is?

- The following “Process Type codes” are used:

- Z01** Frequency activated reserves market
- Z02** FRR-A market
- Z03** Balance regulation market
- Z04** Reserve option market
- Z05** Bilateral trade

Conclusion:

- Should we change “Z02 FRR-A market” to “A51 Automatic frequency restoration reserve”? What with the rest?

- “Z01 Busbar” is used in the Component Type Code (type: Asset type code). However, there is “A08 Busbar” available in the ENTSO-E code list.

Action:

- We update the BRS? **Do we publish it?**

- “Z02 Split busbar” is used in the Component Type Code (type: Asset type code).

Conclusion:

- Do we keep it as is or do we make a MR?

- The following “Business Type codes” are used:

- Z02** Frequency bias (Nordic code)
- Z03** Frequency Containment Reserves, Normal (**FCR-N** earlier **FNR**) (Nordic code)
- Z06** Frequency Containment Reserves, Disturbance (FCR-D earlier FDR) (Nordic code)

Conclusion:

- See BRS for Schedules above

- The following “Business Type codes” are used:

- Z35** Commercial
- Z36** Reserve
- Z50** Commercial wind production
- Z51** Commercial consumption

Action:

- Should we make MRs?

- The following “Price Category codes” are used:

- Z01** Buying
- Z02** Selling
- Z03** Average

Conclusion:

- Should we Change “**Z03** Average” with “**A06** Average Bid Price”? What with the rest?

Action:

-

- “**Z18** Preliminary currency exchange rate. Nordic code.” Is used as “Business Type codes”.

Conclusion:

-

Action:

- We change it to “**B17** Price based on preliminary exchange rate”?

- The following “Business Type codes” are used:

- Z03** Frequency Containment Reserves, Normal (**FCR-N** earlier **FNR**) (Nordic code)
- Z06** Frequency Containment Reserves, Disturbance (**FCR-D** earlier **FDR**) (Nordic code)

Conclusion:

- See BRS for Schedules above.

- “**Z32** System price (including volume) (Nordic code)The following” is used as “Business Type codes” .

Conclusion:

- Could it be changed to “**A87** Balancing energy price”?

Appendix D Overview of the usage of xml-schemas in the Nordic countries

#	XML schema	BRS	Version used by				
			NBS	Energinet	Fingrid	Statnett	Svk
1.	NEG ECAN publication document	NBS BRS for TSO/MO	1.0				
2.	NEG ERRP Reserve Allocation Result Document	a) NBS BRS for TSO/MO b) BRS for Trade	1.0				
3.	NEG Area Specification Document	a) NBS BRS for Master Data b) BRS for Trade	1.0 ¹				
4.	NEG Bilateral Trade Structure Document	NBS BRS for Master Data	1.0				
5.	NEG Party Master Data Document	NBS BRS for Master Data	1.0				
6.	NEG Resource Object Master Data Document	NBS BRS for Master Data	1.1				
7.	ENTSO-E Acknowledgement Document	NEG Common XML rules and ...	6.0				
8.	ENTSO-E ERRP Planned Resource Schedule Document	NBS BRS for TSO/MO	5.0				
9.	NEG ERRP Planned Resource Schedule Document	BRS for Schedules					
10.	ENTSO-E ERRP Resource Schedule Confirmation Report	BRS for Schedules	No NEG version				
11.	ENTSO-E ESS Anomaly Report	BRS for Schedules	No NEG version				
12.	ENTSO-E Outage document	BRS for Schedules	No NEG version				
13.	NEG ESP Energy Account Report Document	NBS BRS	1.0				
14.	ENTSO-E ESS Confirmation Report	NBS BRS	4.1				
15.	ENTSO-E ESS Schedule Document	a) NBS BRS b) NBS BRS for TSO/MO	4.1				
16.	ebIX® Aggregated Data per MGA for Settlement for Settlement Responsible	NBS BRS	2013pA				
17.	ebIX® Aggregated Data per Neighbouring Grid for Settlement for Settlement Responsible	NBS BRS	2013pA				
18.	ebIX® NEG Confirmation of Aggregated Data per Neighbouring Grid for ISR	NBS BRS	2013pA				
19.	ebIX® Validated Data for Settlement for Aggregator	NBS BRS	2013pA				
20.	NEG ECAN Allocation Result Document	BRS for Trade					
21.	NEG Currency Exchange Rate Document	BRS for Trade					
22.	NEG Auction Specification	BRS for Trade					
23.	NEG Spot Market Bid Document	BRS for Trade					
24.	ENTSO-E ERRP Reserve Bid Document	BRS for Trade					
25.	ENTSO-E ERRP Activation Document	BRS for Operate					

¹ The NBS version 1.0 is using dateTimeType for Validity Start/End (error correction), while the MO version 1.0 is using dateType. dateTimeType will be used from version 2.0.