


Minutes: NMEG meeting Date: Thursday and Friday March 21 st and 22 nd , 2019 Time: 09:00 –17:00 and 09:00 – 16:00 Place: Statnett, Nydalen Allé 33, 0484 Oslo April 1 th , 2019	 NMEG Nordic Market Expert Group
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Present: Fedder, DK
Christian, DK (via Skype end of day one)
Jan, SE
Jon-Egil, NO (Convenor)
Martin, SE (via Skype end of day one)
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

To (NorCap): Lars Truelsen, ltr@nordic-rsc.net
Martin Julander, Martin.Julander@svk.se

CC: Hans Erik, NO
Minna, FI

Appendix A: Codes to be updated in BRSs or are candidates for MRs
Appendix B: Overview of the usage of xml-schemas in the Nordic countries
Attachment: None

1 Approval of agenda

The agenda was approved with correction of some spelling errors and the following additions:

- SGTF EG1 DRAFT final report for comments by 13022019, see item 20.1 under AOB;
- Using a kind of "Business Process Identification" in order to see - where should a message go?, see item 20.2 under AOB.

2 Approval of previous meeting minutes

The minutes from NMEG meeting January 8th and 9th were approved with the following comments:

- The text "Main item for the first day" was removed from the heading of item 6;
- Correction of some links under item 8.

The minutes from NMEG/NorCap meeting February 8th were approved with the following comment:

- It was Lars, not Martin that will ask the MNA project regarding the Maximum net import/export from Bidding Zones.

3 eSett: introduction of 15 minutes resolution and “one-balance model”

Background: eSett has asked NMEG to update the NBS BRSs to handle 15 minutes resolution (“PT15M”) in all documents containing Time Series.

In addition to the 15-minute resolution, one-balance model will also be applied and this will also require changes to documents (for instance to NEG ESP Energy Account Report Document (EAR)). eSett will inform us on what should be changed regarding the one-balance model in the documents.

References (links): None.

**What to decided,
discuss or inform:** Status

The BRS and xml-schemas are updated and published.

The item is closed.

4 NMEG-NORCAP Project

Background: NORCAP is a project run by Nordic RSC that needs a set of new CIM based documents, such as the CRAC document and the SIPS document.

References (links): None.

**What to decided,
discuss or inform:** Continue update of BRS for NorCap.

CIM-EG had made first drafts of a “Nordic Configuration Document”, based on the Nordic Area Specification Document, and a SIPS Document. The two new documents were reviewed, commented and added to the BRS.

Action:

- Ove will make a MR for the new code “Z03 Regulator set-point” in measurementType, used to identify the monitored measurement type;
- Ove will make a MR for a new enumeration “Domain Type” containing MGA, Bidding Zone and Scheduling Area.
- Ove will make a MR for a new enumeration “Area Characteristics” containing:
 - Z01** Regional
 - Z03** Industrial
 - Z04** Distribution
 - Z05** Non-concessional
 - Z06** Production
 - Z07** Transmission (main/central grid)
- Ove will send a mail to Alvaro asking for some changes to the Nordic Configuration Document:
 - Rename Nordic Configuration Document to Area Specification Market Document.
 - Split sOMarketParticipant_MarketParticipant.mRID into two elements: marketParticipant_MarketParticipant.mRID and marketParticipant_MarketParticipant.role.
 - Rename the attribute mGAInfo_Domain.name to areaCharacteristics:areaCharacteristicsType_String – this will be an enumeration.
 - Remove mGAInfo_Domain.mRID.

- Rename “Names.name” in area_Domain.typeOfDomain_Names.name to area_Domain.typeOfDomain_String – the element will be used for a code list (enumeration).
- Rename area_Domain.country_Names.name to area_Domain.country_Names.mRID – we will use EIC Member State codes to identify the country.
- There is a borderComponentType_MktPSRType.PSRType and a componentType_PSRType.PSRType (the latter without Mkt) – We should probably add Mkt to the componentType_PSRType.PSRType.
- Ove will send a mail to Alvaro asking for some changes to the SIPS Document:
 - Make the curveType optional in the TimeSeries class.
 - Change the sequence of the elements in the MeasurementAt class, so that the RegisteredResource class becomes the last element of the MeasurementAt class.
- Ove will make a MR for the Business Type “**778** Common Grid Model Equipment”.
- All are asked to check internally if the DLR Data Exchange should be handled by the CRAC Market Document or in the “CGMES (Common Grid Model Exchange Standard) EQ difference profile”.

5 Status for a common meeting with NEAT

Background: NIT has 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.

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

Ongoing task:

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

6 Status NEAT/NMEG “Position regarding asynchronous communications in Nordic area” (MADES/ECP)

Background: Several Nordic TSOs are establishing ECP/EDX networks on the Internet for communication towards the actors. This is directly supporting the expectations from the Nordic Balancing Model and (and partly) the MNA project. However, few are thinking formal thoughts on how these networks should be organised and this is a strategic decision that is difficult to change after implementation. Hence, NMEG will come up with a “Position paper” with our recommendation before the already started projects have come too far with the implementation. If possible, the project will be coordinated with NEAT.

What to decided, discuss or inform: Status for finalisation of NMEG “Position paper” regarding MADES recommendation.

References (links): None.

The document was reviewed and updated and sent on editorial review to NMEG until Tuesday March 26th.

Action:

- Jon Egil will forward the document by NIT, RGN, and NEAT for approval on Wednesday March 26th.

The item is closed.

7 EIC code for the Nordic Area

Background: During the work with the NorCap BRS, the need for a common Nordic EIC code for the Nordic Area has come up – i.e. a code to be used for the Domain in the header of a document covering the complete Nordic area.

What to decided, discuss or inform: Making an EIC code for the Nordic Area.

References (links): None.

There is an EIC for the Nordic market area: **10Y1001A1001A91G**.

It was noted that we don't have an EIC for the Nordic synchronous area.

Action:

- Ove will add the code to the NorCap BRS.

The item is closed.

8 MADES with XML vs REST API with JSON

Background: Statnett (aFRR department) has received a question related to MADES with XML vs REST API with JSON:

Why have you chosen to go with this MADES standard for integrating with the technical bidding flow, instead of a more widespread known standard such as a REST API with JSON format?

What to decided, discuss or inform: Status.

References (links): None.

The simple answer is that MADES and XML are standards required by ENTSO-E and MSG (Market Steering Group), hence the TSOs are forced using them. Further, according to the utility directive¹, international standards or European norms have precedence over national regulation, which makes it challenging to write public tender requirements that do not adopt existing standards.

The Statnett (aFRR department) was informed of answer.

The item is closed.

¹ [DIRECTIVE 2014/25/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL](#), Article 60 "Technical Specifications" §3

9 Making a common Nordic downstream market BRS based on CIM, for exchange of metered data

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).

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

During this item Christian participated via Skype.

Energinet may decide to join NBS (eSett) and if so, Energinet would like to implement all data exchanges using CIM-XML. Christian informed that these formats should be available within September/October this year. This seems possible from a NMEG point of view under the condition that we can start the actual work latest at the next NMEG meeting.

Christian also informed that Denmark expect that only the Datahub and the BRPs will communicate with eSett (no data exchange directly between eSett and DSOs/Energy Suppliers).

Christian proposed establish a subgroup of NMEG to make CIM-XML documents for NBS. However, the creation of this sub-group should be based on a request to NMEG from eSett (hopefully including some money for the work to be done).

Action:

- Christian is asked to raise the issue with the eSett/TSOs Steering group, including how to fund the NMEG project.
- Teemu will try making a CIM version of the “ebIX[®] based NBS NEG Confirmation of Aggregated Data per Neighbouring Grid for Settlement Responsible (A07/A08, E44)” from the NBS BRS.
 - If needed, we will make GoToMeetings to discuss how to do things. All NMEG members will be invited.

10 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. Hence, Ove will create a new website based on WordPress at Webhuset.

References (links): None.

What to be decided, discuss or inform:

A first draft of a WordPress version of www.ediel.org can be found at <https://edieltest.org/>.

During the meeting, Teemu found a better way of presenting downloads, using a table structure.

Action:

- Fedder will investigate if the web site shall be hosted at Energinet or Webhuset.
- Ove will add the ToR for NMEG to www.ediel.org.

11 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):

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

Jon-Egil informed that the TSO always will send the complete set of information. However, we will await doing anything with the "Note" until we make CIM-XML versions of the eSett documents.

The item is closed.

12 BRS for Nordic Operational System

Background: The Activation Document is implemented in Norway and Sweden.

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

What to decided, discuss or inform: Status for publication at www.ediel.org.

Ove had not done the update homework from previous meeting, since some questions had turned up.

Action:

- Ove will update the BRS and send it on circulation for comments to NMEG for 14 days before publication.

13 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 decided,
discuss or inform:** Postponed until we start a project together with NBM.

14 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.

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

No new items.

15 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 B.

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

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 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.

Nothing new.

15.1 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 **Error! Reference source not found..**

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

Fedder and Jon-Egil had brought 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). However, without getting any solution.

Conclusion:

- The codes are found in the document NEG Code List Library at www.ediel.org.
- We don't add any descriptions to the `urn-entsoe-eu-local-extension-types.xsd`.

Item closed.

16 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 A.

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

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

The list om MRs was cleaned up.

Action:

- Ove will send the list with reminding MRs to Jon-Egil, Fedder and Teemu.

17 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](#).

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

Ove had made MRs and sent them to Jon-Egil, with a copy to Fedder, for submission to CIM-EG for their January 2019 meeting.

Action:

- Jon-Egil will follow up in CIM-EG.

Item closed.

18 Information (if any)

- Jan informed that Sweden has started testing the first parts of the new datahub and gave a presentation during the meeting.
 - The related Swedish legislation is expected spring 2020.
- Jon-Egil informed that Elhub started up February 18th, without any major problems.
- Teemu informed that a first test system for a hub is up and running. It is for instance possible to crate Metering point.
 - In parallel, the actors have started testing the quality of their data in another system.
- Fedder informed that much of the Datahub resources are used on the next upgrade of the business processes, expected implemented autumn 2019.

19 Next meetings

- NMEG meeting, Thursday May 9th and Friday May 10th, 2019 (starting 09:00 (CET) the first day and ending 16:00 (CET) the second day), Edisys offices in Oslo (Munkedamsveien 3B).
- NMEG meeting, Wednesday August 21st and Thursday August 22nd, 2019 (starting 09:00 (CET) the first day and ending 16:00 (CET) the second day), Helsinki.
- NMEG meeting, Tuesday October 1st and Wednesday October 2nd, 2019 (starting 09:00 (CET) the first day and ending 16:00 (CET) the second day), Copenhagen.
- NMEG meeting, Tuesday November 5th and Wednesday November 6th, 2019 (starting 09:00 (CET) the first day and ending 16:00 (CET) the second day), Place to be decided.

20 AOB

20.1 *SGTF EG1 DRAFT final report for comments by 13022019*

From Teemu:

Dear all,

Yesterday was the final meeting for the EG1 from the European Commission.

After two years of discussion (and pedagogy), it was finally agreed to recommend that the IEC CIM (Common Information Model) and the HRM (Harmonize Role Model) should be the basis to achieve interoperability in the retail market (supplier switching, billing and new services). This is quite a success when we see how far we started.

The feedback from ENTSO-E was largely considered. I will provide you an amended version as soon as I have it.

The next steps are:

- March 2019: publication of the report

- Entry into force of the CEP is foreseen by Mid-2019
- In the two coming years an implementing act will have to be written on interoperability for the retail market:
 - The member states will be involved
 - A group of experts will be kept to advise the member states

Best regards,

Olivier

NMEG think that the conclusions from the EG1 project is important. This means to use a common reference model (CIM) and role model (HRM) in both the downstream and upstream markets. It was stressed that ebIX® should focus on adding the elements defined for the downstream energy market to CIM.

It was also stressed that it is important that the Nordic energy market is represented in future European initiatives related to energy market standardisation.

20.2 Using a kind of "Business Process Identification" in order to see - where should a message go?

From Jan:

Dear friends,

When receiving a message – could also be an acknowledgement – there is a need to see: where should this message go?

I can have several different applications and different ways of converting a file.

Another possibility is of course if I also use different ways to transport the message.

For some 10-20 years ago we in ebIX described that we could use a “BPI”, business process identification, in the header, helping to describe what to do with, and where to put a received message.

Before that we typically said that we could use sub addresses in the UNB segment in order to route a message to the right application.

When we introduced UTILTS in Sweden 10 years ago we implemented a solution that worked back then. However, now we have started to use UTILTS for messages where we previously used DELFOR, and there are actors having different applications for different “markets” that need to put the messages from us to the correct application without having go deep down in the message (i.e. not having to check the TimeSeries).

I want to find a solution that is independent of EDIFACT or XML. And independent if it is ENTSO-E-based or ebIX-based messages that is exchanged.

One solution could be to look at the “process type” in the header of a document. That is however only found in ENTSO-E based message (and perhaps not yet in every message).

But a code used as “process type” may also be put into the UNB segment (we use data element 0026, APPLICATION REFERENCE in Sweden in UTILTS – not the data elements for routing address).

Another solution could be to look at the “BRS identifications” that have been identified for our national data hubs. But that is very national, and that does not cover messages not sent through our data hubs.

A third solution could be not to use “process type”, but “document type”. However, I believe that “document type” would in some situations be too detailed (too many codes to worry about), and in other situations not be enough: i.e. you might send the same kind of document to two different applications). However, most likely it will be the combination of a set of information in the received file, like document type and process type, that will be the key.

But, the list of process types in the ENTSO-E code list does not include the “process types” that we have in eBIX. And what are the “process types” for the downstream market? Would it be the different use cases that we have described?

Like Measure collected data; Measure for reconciliation; Measure for imbalance settlement; Measure for billing; Settle for reconciliation; Determine meter read; Metering point administration; Metering configuration characteristics administration; Customer administration; Area administration;

I will discuss this tomorrow in Sweden and tell that I also may discuss this later this week with you, my Nordic friends.

Finally, I give you a very Swedish codelist that might be the base for the solution now in UTILTS, and that we implement something better in future (XML?) messages.

One problem with the list below is however that we here don't see the difference between profiled and non-profiled energy volumes – for that you can have different systems.

Z01	Elektrisk produktion
Z02	Elektriskt utbyte
Z03	Elhandel
Z04	Elförbrukning
Z06	Reaktiv effekt
Z07	Hydrologi
Z08	Meteorologi
Z09	Elektrisk kapacitet
Z51	Momentan reserv
Z53	Effektreserv
Z54	Snabb reserv
Z55	Långsam reserv
Z56	Reaktiv reserv
Z57	Reglerstyrka
Z58	Priser
Z59	Värde på kraft
Z60	Elektrisk balans
Z61	Kvarkraft
Z62	Transitering
Z63	Balansreglering
Z64	Effektkraft
Z65	Avräknad kraft
Z66	Övrigt
Z67	Fakturering
Z68	Abonnemang

Z69	Gas
Z70	Överföringsförluster

Jan showed a PowerPoint presentation explain the issue and a possible solution, based on an extension of the “Application Reference” used today in Swedish EDIFACT documents.

Conclusion:

- No-one saw any better solution and NMEG supports the solution Jan showed.

Appendix A 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:**
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- 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:

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Action:

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- 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 B 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 ²				
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					

² 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.