


<b>Minutes:</b> NMEG meeting <b>Date:</b> Thursday and Friday May 9 <sup>th</sup> and 10 <sup>th</sup> , 2019 <b>Time:</b> 09:00 –17:00 and 09:00 – 16:00 <b>Place:</b> Edisys offices in Oslo, Munkedamsveien 3B May 13 <sup>th</sup> , 2019	 <b>NMEG</b> Nordic Market Expert Group
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**Present:** Christian, DK  
Fedder, DK  
Jan, SE  
Jari, FI (first day)  
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

**To (NorCap):** Lars Truelsen, [ltr@nordic-rsc.net](mailto:ltr@nordic-rsc.net)  
Martin Julander, [Martin.Julander@svk.se](mailto: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 Nordic memberships in international standardisation bodies  
**Appendix C:** 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 the CurrencyExchangeRateDocument.xsd, see item 10.1.
- Who is member of what and new Swedish member of NMEG14.1 under AOB.

## 2 Approval of previous meeting minutes

The minutes from previous meeting were approved after correction of some spelling errors.

## 3 NMEG-NORCAP Project (main item the first day)

**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.

**Actions:**

- Ove will make a MR for the new code “Z03 Regulator set-point” in measurementType, used to identify the monitored measurement type:

**Status:**

- The MR is approved. The code is **A21**.
- Ove will make a MR for a new enumeration “Domain Type” containing MGA, Bidding Zone and Scheduling Area.

**Status:**

- MR sent to CIM EG. The MR will be handled at the CIM EG meeting in June.

- Ove will make a MR for a new enumeration “Area Characteristics” containing:

<b>Z01</b>	Regional
<b>Z03</b>	Industrial
<b>Z04</b>	Distribution
<b>Z05</b>	Non-concessional
<b>Z06</b>	Production
<b>Z07</b>	Transmission (main/central grid)

**Status:**

- MR sent to CIM EG. The MR will be handled at the CIM EG meeting in June.
- 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.
  - Splitt 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.

**Status:**

- Ove had sent the mail. Most of the changes were accepted. See also comments below.

- Ove will send a mail to Alvaro asking for some changes to the SIPS Document:

- Make the Curve Type optional in the Time Series class.
  - Change the sequence of the elements in the MeasurementAt class, so that the RegisteredResource class becomes the last element of the MeasurementAt class.

**Status:**

- Ove had sent the mail. The first bullet point was rejected, while the second bullet point was approved (and xml schema updated).
- Ove will make a MR for the Business Type “**Z78** Common Grid Model Equipment”.

**Status:**

- The MR is approved. The code is **C20**.
- 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”.

**Status:**

- Continued homework.

The Area Configuration Document seems to be finalised, including an Implementation Guide. After next CIM EG, also the SIPS document is expected to be finalised.

Jon-Egil presented the agenda for a CCC meeting to be held May 13<sup>th</sup> and a related sequence diagram explaining the CCC (Coordinated Capacity Calculation) process, which will be discussed at this meeting. There were no comments to the sequence diagram.

ENTSO-E Implementation Guides (IG) were made from the EA ESMP model for the latest SIPS and Area Configuration documents. Jon-Egil will as homework add an introduction to the generated IGs.

**Action:**

- 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”.
- Jon-Egil will add an introduction to the IGs for the Area Configuration Market Document and the SIPS Market Document and send it to NMEG and CIM-EG for approval at the June meeting in CIM-EG.

#### 4 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.

#### 5 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.

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

**What to decided, discuss or inform:** Review of homework and establishing a subgroup of NMEG to make CIM-XML documents for NBS.

Energinet expect to sign an agreement for joining eSett next week (the week of Monday May 13<sup>th</sup>).

Fedder participated in a meeting with the Nordic eSett stakeholders the day before, where he brought up the question if Energinet can use CIM versions of the eSett documents from the beginning. However, there was no big enthusiasm from either eSett, nor the other participants to migrate to CIM documents now. Energinet expect to start using eSett in the autumn 2020, hence technical specifications should be ready in the autumn this year.

To support Energinet's desire to use CIM a memo explaining the consequences of a migration to CIM was drafted.

**Action:**

- Teemu will try making a CIM version of the “ebIX<sup>®</sup> based NBS NEG Confirmation of Aggregated Data per Neighbouring Grid for Settlement Responsible (A07/A08, E44)” from the NBS BRS.
  - If needed, we will organise a GoToMeetings to discuss how to do things. All NMEG members will be invited.

## 6 Status for new host for [www.ediel.org](http://www.ediel.org)

**Background:** Currently Energinet is hosting [www.ediel.org](http://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 draft of a WordPress version of [www.ediel.org](http://www.ediel.org), that contains all the information from the official web site, can be found at <https://edieltest.org/>. However, only a test-page containing NBS files are using a table structure for listing files. This page, which is mad by Teemu, is easier to read than the other pages containing file lists.

Ove had as action from previous meeting added ToR for NMEG to [www.ediel.org](http://www.ediel.org) and [www.edieltest.org](https://edieltest.org/).

**Action:**

- Fedder will investigate if the web site shall be hosted at Energinet or Webhuset.
- Teemu will update all lists of files with the new table structure.

## 7 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](https://statnett.eRoom).

**What to decided, discuss or inform:** Status for publication at [www.ediel.org](http://www.ediel.org).

Ove had sent the new version on circulation for comments the week before.

**Action:**

- Unless blocking comments, the BRS will be published at [www.ediel.org](http://www.ediel.org).

Item closed.

## 8 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.

## 9 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](http://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-one knew any documents that needs to be updated. We will keep contact with NBM and see if we should start a small project for aligning the NBM with the existing Nordic BRSs.

## 10 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 C. we need to verify the list.

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

**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](http://www.ediel.org).

**What to decided,**

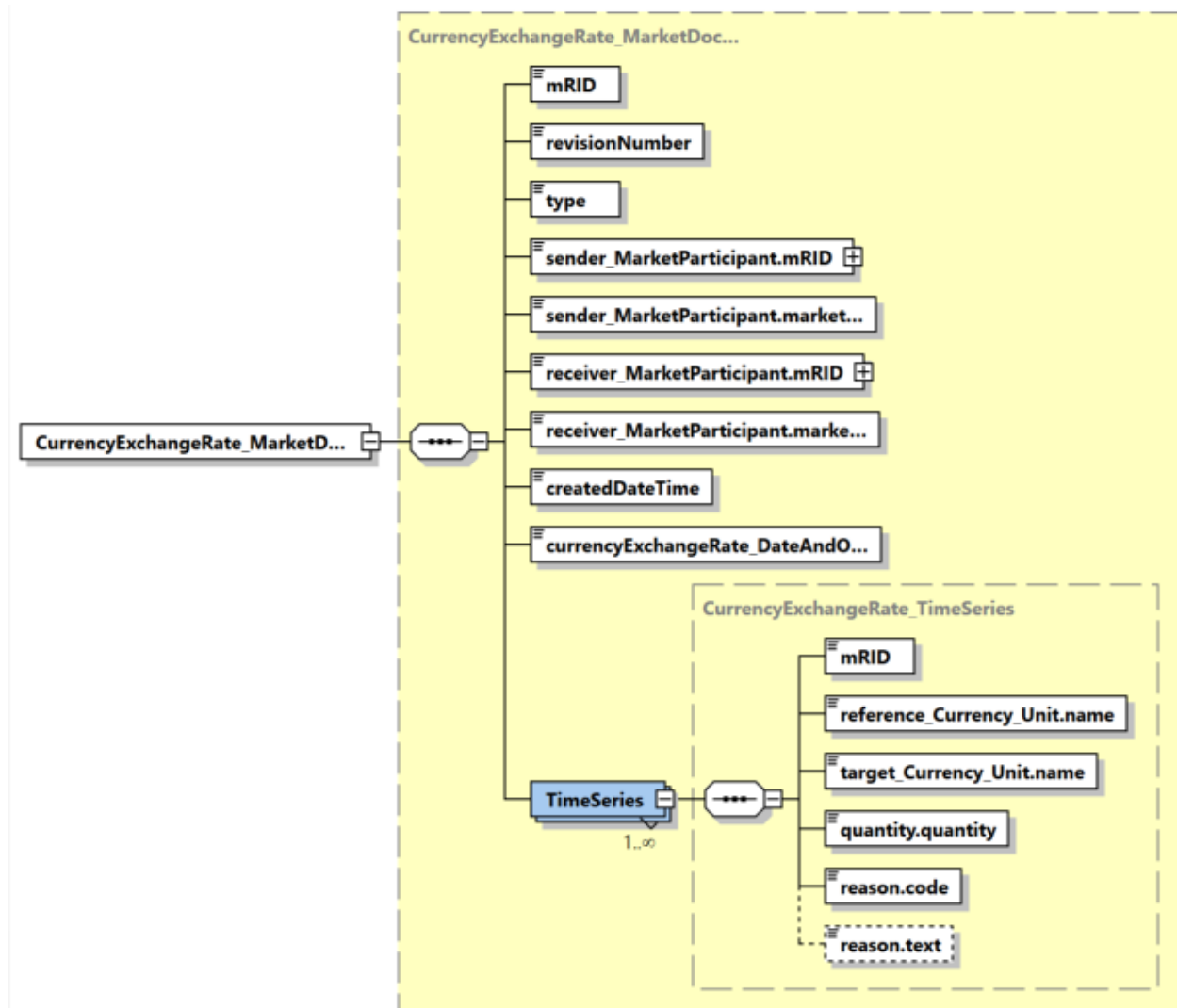
**discuss or inform:** Verify the list of proposals for new schemas and/or sets of schemas, from the NMEG participants, that should be published at [www.ediel.org](http://www.ediel.org).

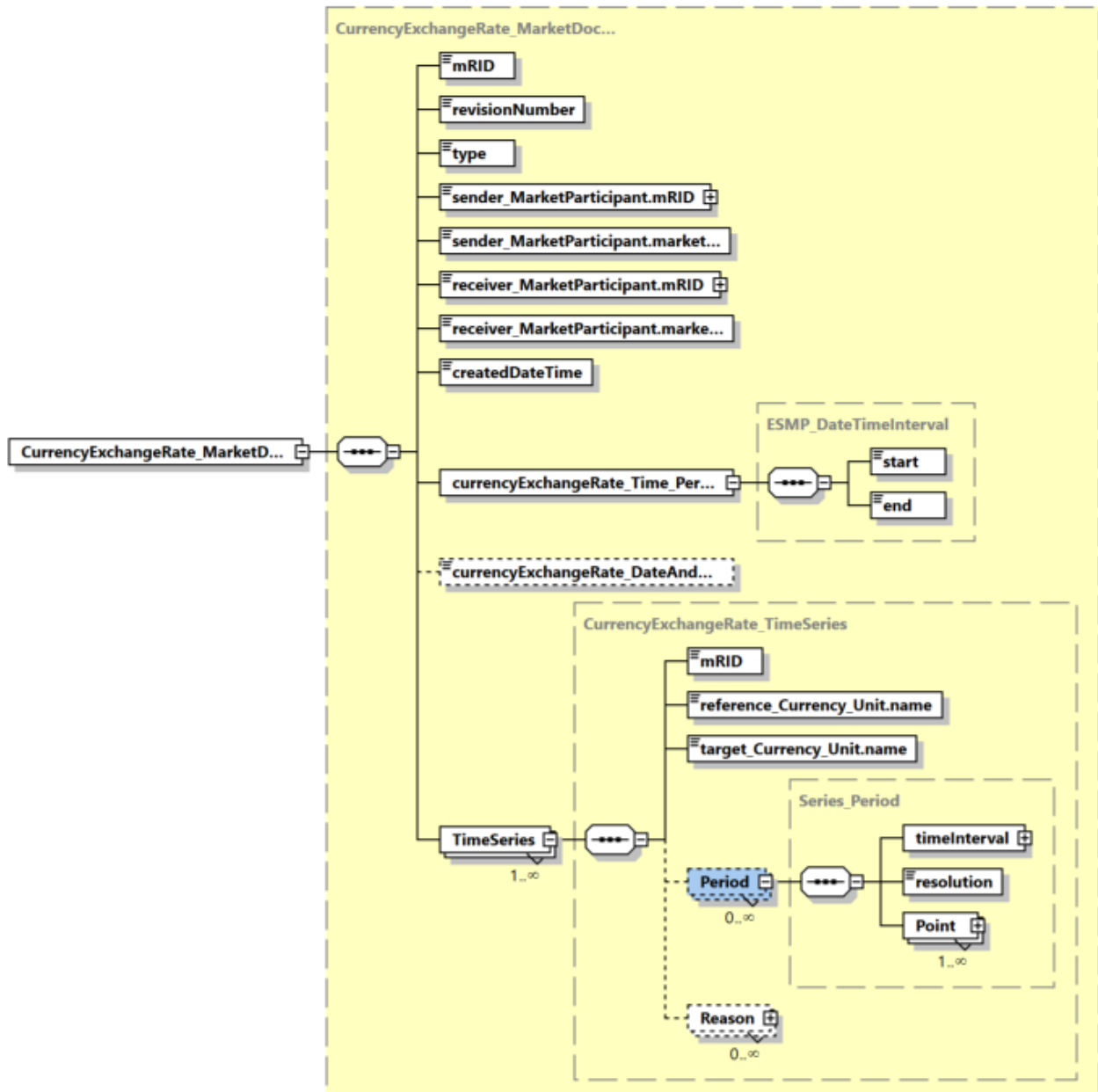
### 10.1 Update of the CurrencyExchangeRateDocument.xsd

Statnett will start using the CurrencyExchangeRateDocument.xsd, but has found a spelling error in the document: **receiver** is spelled as **reciever**:

```
<xs:element name="reciever_MarketParticipant.mRID" type="PartyID_String"
minOccurs="1" maxOccurs="1"
    sawsdl:modelReference="http://iec.ch/TC57/2013/CIM-schema-
cim16#IdentifiedObject.mRID"/>
<xs:element name="reciever_MarketParticipant.marketRole.type"
type="MarketRoleKind_String" minOccurs="1" maxOccurs="1"
```

In addition, Statnett proposes to update the CurrencyExchangeRateDocument using a Period to send exchange rates for several days in the same document:





**Action:**

- Ove will make a new schema (version 2.0) based on the Statnett proposal above but keeping the missing attributes from the original document (making the documents backward compatible) and send it on circulation for comments for 14 days, before publishing it.

**11 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 CIM EG and review of Appendix A

## 12 Information (if any)

- Energinet expect to sign a contract with eSett next week.
- The Finnish HUB is progressing, and the first test has already been done.
- Denmark will require continuous metering for all Metering Points from January 1<sup>st</sup>, 2021.
- The Swedish datahub is postponed because of delays with the need laws – expected to be approved from summer 2020. Until the law is approved, the migration of data cannot start
- There will be a meeting between ebIX® and ENTSO-E June 11<sup>th</sup>, where among others Jon-Egil, Jan, Teemu, Kees, Greta and Alvaro will participate. The main item for the meeting is to discuss the introduction of an Event class to CIM (and ESMP), instead of using the TimeSeries class for master data.

## 13 Next meetings

- NMEG meeting, Wednesday August 21<sup>st</sup> and Thursday August 22<sup>nd</sup>, 2019 (starting 09:00 (CET) the first day and ending 16:00 (CET) the second day), Helsinki.
- NMEG meeting, Tuesday October 1<sup>st</sup> and Wednesday October 2<sup>nd</sup>, 2019 (starting 09:00 (CET) the first day and ending 16:00 (CET) the second day), Copenhagen.
- NMEG meeting, Tuesday November 5<sup>th</sup> and Wednesday November 6<sup>th</sup>, 2019 (starting 09:00 (CET) the first day and ending 16:00 (CET) the second day), Place to be decided.

## 14 AOB

### 14.1 *Who is member of what and new Swedish member of NMEG*

Jan informed that Moustafa Chenine is a candidate for being a new Swedish member of NMEG. Among others, Moustafa is a member of CGMES (Common Grid Model Exchange Standard (subgroup under CIM EG)).

An overview of who is member of what was made, see Appendix B



## 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:**
      -
- 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 B Overview of Nordic memberships in international standardisation bodies

Name	Member of
Anne Stine	NMEG, ebIX®
Bertil (SE)	EBG
Christian	NMEG, ebIX® observer (?)
Fedder	NMEG, CIM EG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO
Jan	NMEG, HG, ebIX®, IEC/WG16+14
Jari	NMEG, CIM EG, ETC
Jon-Egil	NMEG, CIM EG, IEC/WG16, ESMP, CCC, CIO/LIO, TPC
Martin (SE)	CCC
Moustafa (SE)	CGMES
Oscar	CIO/LIO, ebIX®
Ove	NMEG, HG, ebIX®, IEC/WG16
Svein (NO)	IEC/WG14+13, CGMES
Teemu	NMEG, CIM EG, EBG, CIO/LIO

### Abbreviations:

CCC	Coordinated Capacity Calculation (project under CIM EG)
CGMES	Common Grid Model Exchange Standard (subgroup under CIM EG)
CIO/LIO	Central Issuing Office / Local Issuing Office
CSSG	Communication Standards (subgroup under CIM EG)
Dc	ENTSO-E Digital committee
EBG	ebIX® Business Group
EEAT	ENTSO-E Enterprise Architecture Team (subgroup under Dc)
ESMP	European Style Market Profile (subgroup under CIM EG)
ETC	ebIX® Technical Committee
HG	ebIX®, EFET and ENTSO-E Harmonisation Group
MC	ENTSO-E Market Committee
MIT	Market Integration and Transparency (subgroup under MC)
TPC	Transparency Platform Coordinators (subgroup under MIT)

## Appendix C 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 <sup>1</sup>				
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					

<sup>1</sup> 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.