


<b>Minutes:</b> NMEG meeting <b>Date:</b> Wednesday June 3 <sup>rd</sup> and Thursday June 4 <sup>th</sup> , 2020 <b>Time:</b> 13:00 –14:30 and 09:30 – 11:30 <b>Place:</b> GoToMeeting	 Nordic Market Expert Group
June 10 <sup>th</sup> , 2020	

<b>Present:</b>	Jan, Energinet (day two) Jan, Svenska kraftnät Jon-Egil, Statnett Mika, eSett, FI Ove, Edisys Teemu, Fingrid Tage, Energinet (day two)
<b>To (NMEG):</b>	Anne Stine, Elhub Christian, Energinet Jan, Energinet Jan, Svenska kraftnät Jari, Fingrid Jon-Egil, Statnett (Convenor) Ole, Energinet Ove, Edisys (Secretary) Tage, Energinet Teemu, Fingrid
<b>CC:</b>	Audun, Elhub Fedder, Energinet Hans Erik, Elhub Minna, Fingrid
<b>To (Invited guests):</b>	Mika, eSett, FI Tommy, eSett, FI Tuomas L, eSett, FI Tuomas P, eSett, FI
<b>Appendix A:</b>	Overview of Nordic memberships in international standardisation bodies
<b>Appendix B:</b>	Overview of the usage of xml-schemas in the Nordic countries
<b>Attachment:</b>	None

## 1 Approval of agenda

The agenda was approved with the following additions:

- Swedish project for mFRR bid, see item 6.3;
- New Reason Codes for NBM, see item 6.4;
- urn-entsoe-eu-local-extension-types.xsd with annotations, see item 14.1 under AOB.

## 2 Approval of previous meeting minutes

The previous meeting minutes were approved without comments.

### 3 Status from "ECP/EDX Centre of Excellence group"

**Background:** NIT has taken over the responsibility for the "ECP/EDX Centre of Excellence group", which originally was proposed by NMEG.

**References (links):**

**What to decide, discuss or inform:** Status from "ECP/EDX Centre of Excellence group".

Mika reported that a ToR for the group has been forwarded to NIT. The work has started, and the next meeting is scheduled for June 11<sup>th</sup>.

### 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 decide, discuss or inform:** Update of the NorCap BRS.

#### *Continued action:*

- Jon-Egil will inform Ove of which documents that will contain the new resolution (P1D)
- Thereafter Ove will update the BRS and upload it to eRoom

### 5 Status for a common meeting with NEAT

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

**References (links):** None.

**What to decide, discuss or inform:** Status for a common meeting with NEAT.

#### *Ongoing task:*

- Jon-Egil will check if it still is any interest for a common meeting with NEAT and if so, schedule a common meeting.

### 6 Status and update of 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).

**References (links):** None.

**What to decide, discuss or inform:** Update of BRSs and other documents if needed.

## 6.1 ENTSO-E/Nordic codes for the codes used in QUOTES

The item is based on a question from Jan (SE); shall we make a MR for a new Process type for the “D” in QUOTES, i.e. bids for Disturbance reserve (“störningsreserven”)?

Homework from Jan (SE):

- 1) We think the definition for process type **A58** (Reserve option market) “Processes related to the Reserve option market to assure that there are enough available reserves for the manual FRR market.” would cover both “effektreserven” and “störningsreserven”.
- 2) The needs for “effektreserven” and “störningsreserven” are a bit different. The first one is used to handle “power shortage”, the second is used to handle “n-1 situations”.
- 3) A definition of the latter could then in English be “Processes related to the Reserve option market to assure that there, handling (N-1) situations, are enough available reserves for the manual FRR market.”
- 4) If also having a definition for the situation of power shortage, that definition could be “Processes related to the Reserve option market to assure that there, handling power shortage, are enough available reserves for the manual FRR market.”
- 5) But, what then to do with code A58? To be replaced with “Reserve option market for power shortage” and add a new code “Reserve option market for N-1 situations”?  
Or having three codes, using A58 when you don’t need to distinguish between different kinds of “Reserve option markets”?  
And what more Reserve option market can we have?
- 6) And what about then “störningsreserven”? A suggestion is to call it “Procured mFRR-capacity for handling of N-1”.

As we can see, what we call “störningsreserven” in Sweden is called “reserve power plants” in Finland. See [https://www.fingrid.fi/en/electricity-market/reserves\\_and\\_balancing/reserve-power-plants/](https://www.fingrid.fi/en/electricity-market/reserves_and_balancing/reserve-power-plants/), while what we call “effektreserven” would in Finland be described here <https://www.fingrid.fi/en/grid/peak-load-capacity/>.

The Process Type code **A58** was requested by NMEG in autumn 2019.

### **Conclusion:**

- It was proposed to use the Auction Identification attributes on the Time Series level – Jan (SE) will investigate if this is OK.

## 6.2 BRS for Operate

Sweden will introduce CIM for the Activation Document in a pilot project with a few participants soon, hence there is a need for update of the BRS for Operate

Jon-Egil had as action verified that Fifty NOT is using **A11** in marketObjectStatus.status, hence the code will NOT be added to the BRS.

### **Action:**

- Ove will send the BRS on circulation for comments for one week and thereafter publish it.

### 6.3 Swedish project for mFRR bid

In Sweden there is a few projects where the CIM Reserve Bid document will be used instead of QUOTES to send mFRR bids to Svenska kraftnät, hence, the BRS for Trade should be updated.

After the meeting day one, Ove added the CIM version of the Reserve Bid Document (without gradient up/down) to the BRS, which was reviewed and corrected on day two.

#### **Conclusion:**

- We add the Reserve Bid Document to BRS for Trade based on the latest draft version (CDV) from IEC (WG16).

#### **Action:**

- The gradient up/down attributes are originally requested from Denmark. It was noted that the attributes still are needed in Denmark, hence Fedder is asked to make comments to the IEC/CDV (CDV\_62325-451-7 Balancing Process v2). Comments must be submitted before July 24<sup>th</sup>.
- Also, Finland, Norway and Sweden are asked to submit comments based on the Danish comments – if Denmark still need the attributes.
- Ove will send the BRS on circulation for comments for one week and thereafter publish it.

### 6.4 New Reason Codes for NBM

The following Reason Codes are added to the NMEG Code List Library:

<b>Z50</b>	Supportive power special	The object relates to Supportive power special
<b>Z51</b>	Supportive power disturbance	The object relates to Supportive power disturbance
<b>Z52</b>	Transit SB Loop Short	The object relates to Transit SB Loop Short

#### **Conclusion:**

- Ove published the new NMEG Code List Library between the two meeting times.

## 7 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.

**References (links):** The MRs can be downloaded from [Statnett's eRoom](#).

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

Ove had as action replaced “**Z05** Bilateral Trade“ with “**A59** Internal trade reporting” in the non-published NBS BRSs and to other BRS where used (without publication).

#### **Continued action:**

- DK, FI and SE will go through the list of Reason Codes below (see chapter 5.3.4 in NBS BRS for TSO-MO) and verify if the codes are used and needed. The BRS can be downloaded from [Statnett eRoom](#).

**Z22** Supportive power

- Z26** Transit triangle
- Z27** Transit redispatch
- Z28** Transit SB Loop Long
- 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)
- Z42** FCR-N, D-1
- Z43** FCR-N, D-2
- Z44** FCR-N, D-1, correction
- Z45** FCR-N, D-2, correction
- Z46** FCR-D, D-1
- Z47** FCR-D, D-2
- Z48** FCR-D, D-1 correction
- Z49** FCR-D, D-2 correction

## 8 BRS for schedules

- 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 (SE) and Fedder will check the dependency matrix for ESS schedule document and ESS confirmation report, chapter 7.1 and 7.3.
  - 2) Fedder, Jan (SE) 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 decide,**

**discuss or inform:** Review of updated BRS.

**Continued action:**

- Ove will prepare CIM versions of the documents in the Scheduling BRS.
- Ove will add the CIM version of the ERRP Planned Resource Schedule for FFR services to the BRS for Schedules.

## 9 XML schemas (to remember item)

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

**References (links):**

**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 decide,**

**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 NMEG CIM-XML Subgroup

**Background:** At the NMEG meeting November 2019, it was agreed to establish a NMEG CIM-XML Subgroup that will make Nordic CIM based XML documents. The following tasks are prioritised (updated at NMEG meeting March 2020):

- a) Update the NMEG model with the latest ebIX<sup>®</sup> extension;
- b) Make a road map for making CIM documents for the Danish Datahub version 3.0;
- c) Continue with NBS documents:
  1. NBS ebIX<sup>®</sup> based documents;
  2. NBS documents based on older ENTSO-E schemas;
  3. NBS master data documents.

The members of NMEG CIM-XML Subgroup are Jan (DK), Jan (SE), Teemu and Ove.

**References (links):**

**What to decide,**

**discuss or inform:** Status.

### 10.1 Report from NMEG CIM-XML Subgroup; GoToMeeting May 13<sup>th</sup>

- Participants Christian, Jan (DK), Jan (SE), Ove and Teemu.
- Ove had as homework:
  - Mapped all DK attributes to the contextual model in the *Memo - Mapping of Danish downstream documents to CIM*.
  - Made packages for *CIM based RSM-014: Notify Aggregated Time Series* and *CIM based RSM 012 – Notify Measure Data for a Metering Point*.
  - Added the Danish attributes *Net Settlement Group*, *Production Obligation* and *MP Connection type* to *Ext\_MarketEvaluationPoint*, which inherit from *DKExt\_MarketEvaluationPoint*.
  - Made a xml-schema for the master data document to see how CIMSyntaxGen handles «Compounds» – **This must also be verified!**
- It seems to be something wrong with the linking of *Ext\_MarketEvaluationPoint* and *DKExt\_MarketEvaluationPoint* – Jan (SE) and Ove will investigate this.
- The xml-schema for the master data document was briefly reviewed – it seems that we need to correct the usage of data types in the “extension packages” - Jan (SE) and Ove will investigate also this.”

#### **Action:**

- Jan (SE) and Ove will investigate:
  - linking of *Ext\_MarketEvaluationPoint* and *DKExt\_MarketEvaluationPoint*;
  - usage of data types in the “extension packages”;
  - possible attributes for Number of Digits, Conversion Factor (Constant), Unit Type, Meter Reading Type and Function.

### 10.2 Report from NMEG CIM-XML Subgroup; GoToMeeting May 20<sup>th</sup>

- Participants Jan (DK), Jan (SE) and Ove.
- Ove and Jan (SE) had as homework:
  - Found proposals for which attributes to use for Number of Digits, Conversion Factor (Constant), Unit Type, Meter Reading Type and Function;
  - Created a new package for extended ebIX<sup>®</sup> data types,
- The linking of *Ext\_MarketEvaluationPoint* and *DKExt\_MarketEvaluationPoint* needs some more investigate.
- Ove mentioned that we should do some work on defining ebIX<sup>®</sup> and Danish enumerations. Maybe we can try to populate a xml-file for the master data document to see if all attributes can be filled with relevant data.
- During the meeting, the first part of missing attributes from RSM 014 (aggregated measure data) was found – to be continued at next meeting.

#### **Action:**

- Jan (SE) and Ove will continue investigation of the linking of *Ext\_MarketEvaluationPoint* and *DKExt\_MarketEvaluationPoint*;
- Jan (SE) and Ove will make an example of how to generate ebIX<sup>®</sup> enumerations.
- Ove will add an extension “Ext\_” to all ebIX<sup>®</sup> ACCs and “DKExt\_” to all Danish ACCs.
- Jan (SE) will add an extension “Ext\_” to all ebIX<sup>®</sup> ACCs in his version.

### 10.3 Report from NMEG CIM-XML Subgroup; GoToMeeting May 27<sup>th</sup>

- Participants Christian, Jan (DK), Jan (SE) and Ove.
- Jan (SE) and Ove had as homework extension “Ext\_” to all ebIX<sup>®</sup> ACCs and Ove had added “DKExt\_” to all Danish ACCs.
- The main item for the meeting was continuation of finding CIM attributes to RSM 014 (aggregated measure data).

#### **Continued action:**

- Jan (SE) and Ove will continue investigation of the linking of Ext\_MarketEvaluationPoint and DKExt\_MarketEvaluationPoint;
- Jan (SE) and Ove will make an example of how to generate ebIX<sup>®</sup> enumerations.

### 10.4 Report from NMEG CIM-XML Subgroup; GoToMeeting June 3<sup>rd</sup>

- Participants Jan (SE) and Ove;
- Due to few participants the meeting lasted just over half an hour;
- Jan and Ove had as homework solved the issues regarding linking of Ext\_MarketEvaluationPoint and DKExt\_MarketEvaluationPoint;
- Fedder had by mail asked for addition of a Market Document (header) for the CIM based RSM 022 Notify Metering point master data, which Jan (SE) and Ove had added.
- Jan (SE) and Ove had also made a proposal for how to add ebIX<sup>®</sup> codes to the ENTSO-E xml schemas for code lists. I.e. by referencing the xml schema urn-ebix-org-codelists.xsd when generating schemas using CIMConteXtor. The xml schema urn-ebix-org-codelists.xsd contains the ebIX<sup>®</sup> code lists and includes the current set of ENTSO-E code list schemas.
- The main item for the meeting was continuation of finding CIM attributes to RSM 014 (aggregated measure data).

#### **Conclusions:**

- For the foreseeable future, we will use “EA Controlled Package” when exporting/importing xmi-files. A Controlled Package is a Package configured to save and load in XML format to a named file; the XML output is UML 1.3 compliant XMI, with Enterprise Architect extensions to support diagrams and additional model elements.
- We will not create “ebIXPrimitives” (datatypes) before we see the need for it.

#### **Action:**

- Ove will continue adding code lists to the EA model.

## 11 Picture at the front page of [www.ediel.org](http://www.ediel.org)

**Background:** At the NMEG meeting March 2020, it was agreed to add a picture to the front page of [www.ediel.org](http://www.ediel.org).

**References (links):** [www.ediel.org](http://www.ediel.org).

**What to decide, discuss or inform:** Status.

**Continued actions:**



- Jon-Egil volunteered finding proposals for a picture;
- When a picture is agreed, Teemu will add it to [www.ediel.org](http://www.ediel.org).

## 12 Information (if any)

Jon-Egil informed that there still are a few issues with the MNA, after go-live the day before.

## 13 Next meetings

Unless otherwise explicitly stated, the meetings start at 09:00 (CET) the first day and end 16:00 (CET) the second day.

- Tuesday and Wednesday August 18<sup>th</sup> and 19<sup>th</sup> in Edisys offices in Oslo;
  - Decision mid-July – if GoToMeeting, 10:00 to 12:00 both days
- Tuesday and Wednesday October 27<sup>th</sup> and 28<sup>th</sup> in Svenska kraftnät’s offices in Sundbyberg;
  - Incl. common ½ day meeting with eSett SLA group on Wednesday 28<sup>th</sup>.

NMEG CIM-XML subgroup GoToMeetings:

- Wednesday June 10<sup>th</sup> 10:00 – 11:30 (CET);
- Wednesday June 17<sup>th</sup> 10:00 – 11:30 (CET).

## 14 AOB

### 14.1 *urn-entsoe-eu-local-extension-types.xsd with annotations*

Bent Atle has come up with a solution for how to add annotations to the urn-entsoe-eu-local-extension-types.xsd:

```
<xsd:enumeration value="Z77">
  <xsd:annotation>
    <xsd:documentation>
      <CodeDescription>
        <Title>ACE OL - Area Control Error Open Loop</Title>
        <Definition>ACE OL is the imbalance before ... </Definition>
      </CodeDescription>
    </xsd:documentation>
  </xsd:annotation>
</xsd:enumeration>
```

### **Conclusion:**

- Ove will make a proposal before next meeting containing all Nordic codes.

### 14.2 *Support to the NBM project*

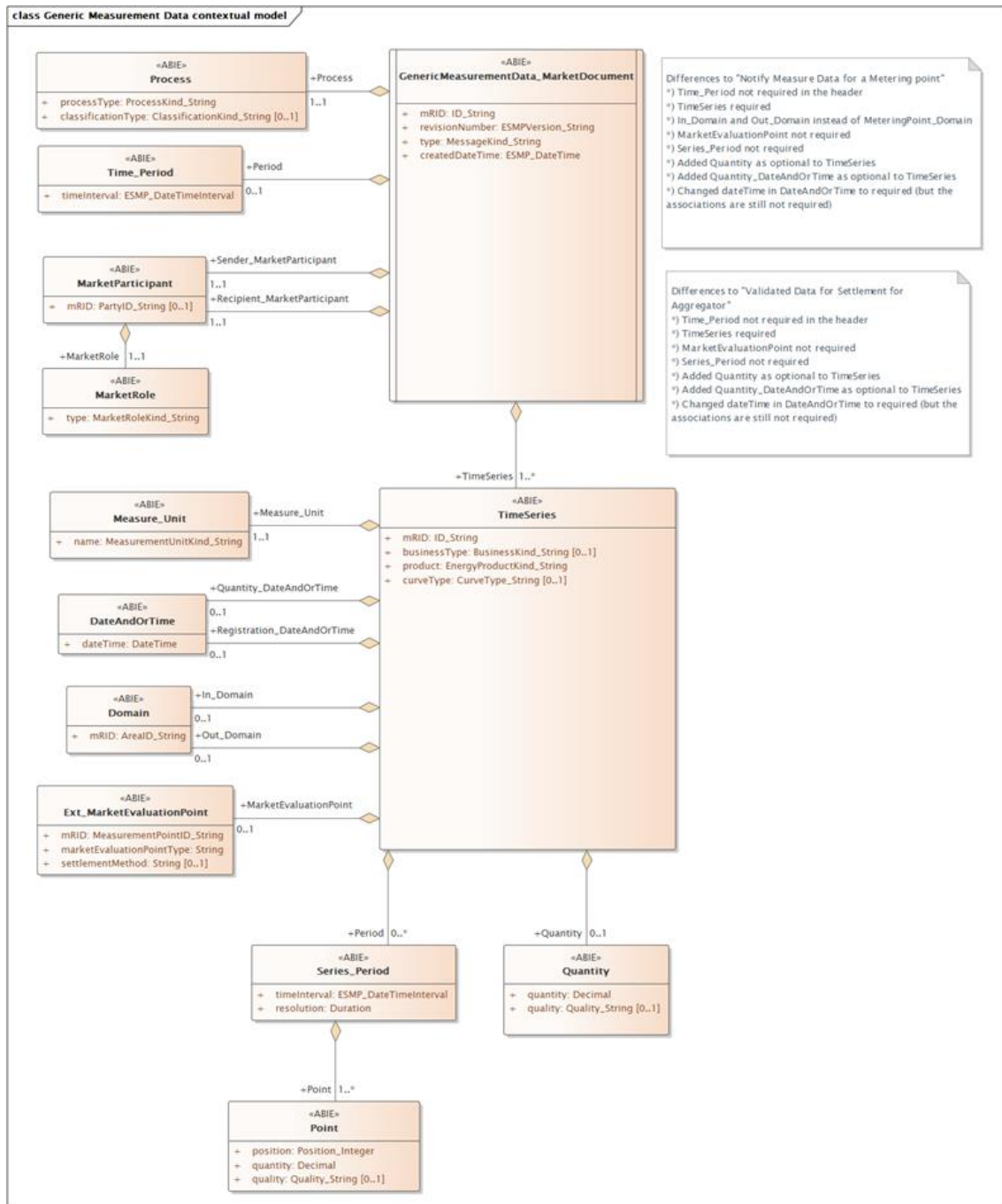
“Support to NBM projects” will be a new permanent item on the NMEG agenda.

Jan (SE) informed that in the NBM-project (Nordic Balancing Model, see <http://nordicbalancingmodel.net/>), there is a need to exchange “measurement data”.

Others know more about the actual needs, but the idea is to use CIM. One suggestion was to use the “continental” message (RGCE) “Measurement Value Document”. However, Jan (SE) suggested that we should base the exchange on what we need for similar purposes in the Nordic area – like sending values to NBS or what now is made for Denmark.

Regardless of message to start from, those are not including a simple exchange of one instantaneous value at certain time (i.e. timeseries with just a quantity and a timestamp). Timeseries for a period is of course possible in many types of documents – but one need for NBM would also be to just send a single quantity. And then 10 seconds later, a new quantity etc.

The day before, Jan (SE) made a draft for such a message.



***Conclusion:***

- NMEG support using DataAndOrTime and Quantity instead of the normal Series\_Period, for this special purpose.

## Appendix A 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 (SE)	NMEG, HG, ebIX®, IEC/WG16+14
Jari	NMEG, CIM EG
Jon-Egil	NMEG, CIM EG, IEC/WG16, ESMP, CCC, CIO/LIO, TPC
Martin (SE)	CCC
Oscar	CIO/LIO, ebIX®, CIM EG
Ove	NMEG, HG, ebIX®, IEC/WG16
Svein (NO)	IEC/WG14+13, CGMES
Teemu	NMEG, CIM EG, EBG, ETC, 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 B Overview of the usage of xml-schemas in the Nordic countries

#	XML schema	BRS	Version used by					
			NBS	NMA	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>	2.0 (CIM)				
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.