

Minutes: NMEG meeting Date: Wednesday May 20 th Time: 10:00 – 12:00 Place: GoToMeeting	 NMEG Nordic Market Expert Group
June 11 th , 2021	

Present: Christian, Energinet
Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (Convenor)
Mika, eSett
Miika, Fingrid
Ove, Edisys (Secretary)
Tage, Energinet
Teemu, Fingrid

To (NMEG): Anne Stine, Elhub
Christian, Energinet
Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (Convenor)
Miika, Fingrid
Ove, Edisys (Secretary)
Tage, Energinet
Teemu, Fingrid

CC: Audun, Elhub
Bent Atle, Statnett (NBM)
Fedder, Energinet
Hans Erik, Elhub
Minna, Fingrid

To (Invited guests): Mika, eSett, FI
Tommy, eSett, FI
Tuomas L, eSett, FI
Tuomas P, eSett, FI

Appendix A: Overview of Nordic memberships in international standardisation bodies

Appendix B: 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:

- CNTC IG, see item 4.1.

2 Approval of previous meeting minutes

The previous meeting minutes were approved after correction of a spelling error from Jan (SE). The corrected and approved minutes have been uploaded to Statnett eRoom.

3 Status from NEX (Nordic ECP/EDX Group)

Background: NIT has taken over the responsibility for NEX (Nordic ECP/EDX Group), former "ECP/EDX Centre of Excellence". However, the group is still below NMEG in the "formal hierarchy". NMEG will be kept informed of progress in the group.

References (links):

What to decide, discuss or inform: Status from NEX and presentation of the NEX web page (if ready).

Miika informed that a NEX page is up and running under www.ediel.org. Currently not much text and a single document (ToR).

The NEX group is working on instructions for how to participate in the Nordic ECP network, dependent on the country, and a summarised instructions document for inexperienced users. The timeline for publication is on the next NEX agenda in the beginning of June.

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.

Ongoing task:

- 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 Statnett's eRoom

Jon-Egil informed that NMEG has new contacts within the NORCAP project (e.g. Fedder) and that he expects NMG to be more involved soon.

4.1 CNTC IG

Fedder asks if NMEG can and will help the NORCAP project to create an implementation guide for the CNTC (Coordinated Net Transfer Capacity) process, including an information model that is consistent with the ESMP? However, we have not yet got enough detailed information to do anything yet.

The item will be followed up at the next meeting.

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 Support to the NBM project

Background: The NBM-project (Nordic Balancing Model) is going forward and there is a need for a number of new CIM based documents.

References (links): <http://nordicbalancingmodel.net/>

What to decide, discuss or inform: Status for the NBM project and possible task for NMEG.

Pending list (to remember items):

- NBM ACE OL documents and Measurement Value Market Documents will be added to the Nordic Operate BRS.
- NBM Capacity Market Documents will be added to the BRS for Determine Transfer Capacity.
- NBM “Reserve Bid Market Document (Plan mFRR Bid)” will be added to the BRS for schedules, the BRS for Nordic Trading System or elsewhere – to be decided.

Ove had as action from previous meeting published the updated NMEG code list and related urn-entsoe-eu-local-extension-types.xsd directly at www.ediel.org.

Ove had also made a draft MR for a new attribute for the Run ID and sent it to Jon-Egil for discussion in the NBM project before presented at the next NMEG meeting.

A status for the MR for a new attribute for the Run ID will be put on our next NMEG agenda.

7 Status for MRs to ebIX®

Background: NMEG has sent several Maintenance Requests (MR) to ebIX and some of these have been postponed.

References (links): The MRs can be downloaded from Statnett’s eRoom

What to decide, discuss or inform: Status for MR to ETC and if needed making new MRs.

The MRs are still awaiting review of relevant BRSs from EBG.

8 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: Review of the MRs left from previous meeting.

Review and update of statuses in NMEG MR Overview document.

Jon-Egil informed that NMEG 2020/183, NMEG 2020/184, NMEG 2020/188 are approved. However, the addition of Asset Types from NMEG 2020/188 is still pending.

Jon-Egil also informed that there is an agreement in CIM-EG to add an association to the new class Fuel to the TimeSeries class in ESMP.

Finally, Jon-Egil informed that NMEG 2021/192 (increase the maxLength from 35 to 60 characters for the data type MeasurementPointID_String) also is approved.

Ove had as action from previous meeting looked through the NMEG BRS to see if newly approved codes form CIM EG will influence these, i.e. **C57** Metered frequency and **A15** Scheduling area and found that **A15** not is used anywhere, but the **C57** Metered frequency is used in BRS for Operate.

Action:

- Ove will update the document with the new code for metered frequency and publish it directly.
Information from after the meeting: already published.
- Ove will make a first draft for a next version of the Operate BRS that includes reporting of FCR.

9 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.

References (links): None.

What to decide,

discuss or inform: Update of BRSs and other documents if needed.

9.1 BRS for Schedules: CIM version of Outage document

Jon-Egil has sent a request to the OPC group, trying to get a common meeting to agree on how to implement the CIM version of the Outage Document, however without any response yet.

A status for the request to OPC will be put on the next NMEG agenda.

9.2 NMEG Common rules and recommendations

Ove had as action sent the NMEG Common rules and recommendations on circulation for comments for one week before the updated document was published end of April.

Item closed.

9.3 *Difference between NBS User guide and XML schema*

Background:

According to the user guide for NBS, the identification of the Metering point could be up to 35 characters long. However, according to the XML schema, the identification of the metering point may only be maximum 18 characters long.

Ove had as action updated the Metering Point ID length to 60 in the ebIX® based ValidatedDataForSettlementForAggregator and published it directly at www.ediel.org.

Ove had also made a MR for extending the length of the MeasurementPointID_String to 60 characters (currently 35), like ID_String, which also is approved by CIM-EG.

Item closed.

10 **Status for Swedish Flexibility project**

Background: Sweden has two ongoing “Flexibility projects” that now want to use CIM based messages for the exchanges to/from the flexibility platforms. Among others one called Stockholm flex where Vattenfall is candidate for making CIM documents for the project(s).

To keep document exchanges as harmonised as possible in the Nordic countries, NMEG has offered them NMEGs help in making the needed CIM based xml schemas.

References (links): None.

What to decide,

discuss or inform: Status report from Jan (SE).

The project will soon start – to be continued.

11 **Implementation of an “Energy Community” in the Finish datahub**

Background: The Finish datahub has started the specification work for addition of an Energy Community, based on EU directive 2019/944 of June 5th, 2019 on common rules for the internal market for electricity, and expect implementation from 2023.

References (links): None.

What to decide,

discuss or inform: Status action item.

Ove informed that Elhub thinks they have solutions that covers the Energy Communities mentioned in EU directive 2019/944. For instance there are some functionalities in Elhub for handling “virtual grids”, such as for an apartment building with solar panels on the rooftop. The production can then be split on each apartment, saving grid costa because of less net consumption and taxes if you get below the 100-kW limit. In addition there are functionality for handling “Sub-grids” and “Pluskunder” (Prosumers). There is however no solution for handling Energy Communities cross MGAs. There are also some pilot projects ongoing without involvements from Elhub or Statnett.

Teemu informed that the Energy Communities will not be a part of the first Finish Datahub - postponed until 2023. It will not cover Energy Communities cross MGA in the first version.

Item closed.

12 CIM EG and ebIX® Area project

Background: The proposed project plan for an ebIX® and CIM EG Area project was approved by ebIX® Forum at the forum meeting November 17th. ebIX® also agreed to pay for a secretary in such a project.

References (links):

What to decide, discuss or inform: Status from CIM EG if they can approve a common ebIX® and CIM EG project.

Continued action:

- Jon-Egil will investigate if CIM EG is interested in a common project with ebIX®.

13 XML schemas

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

When we start a project together with NBM (Nordic Balancing Model), everyone is 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.

References (links):

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

Ongoing task:

- All 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 added to Appendix B and be published at www.ediel.org.
- Ove will update the table based on NBM documentation received from Bent Atle (NBM/Fifty), when the NMEG BRSs are updated with NBM documents.

14 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® 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® 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.

14.1 Report from NMEG CIM-XML Subgroup; GoToMeeting April 26th

- Participants Christian, Jan (DK), Jan (SE) and Ove.
- Christian had verified that “Process variant” also is used in RSM 14 and 17, hence Ove had added the “Process variant” also to these documents.
- Christian informed that it seems that version 3.0 of the Datahub will use CIM both internally and externally, under the condition that a mapping tool between CIM and ebIX® based documents is made available for the actors (required by the two largest actors who needs a few years to migrate to CIM), hence the CIM version must be ebIX® compatible.
- Jan (DK) had made a set of comments to the mapping document which was reviewed. The review of comments will continue from RSM 009 at the next meeting.

Actions:

- Ove will rename Accounting Point to Metering Point, where the “point” can be both an Accounting Point and an Exchange Point.
- Ove will also update the mapping document according to agreed changes based on the comments from Jan (DK).
- Jan (SE) will try to find time to make a proposal for how physical asset (solar cells, EVs...) can be linked and which of these (and virtual objects) that are Installations, Resources, Metering Points or Accounting Points.

14.2 Report from NMEG CIM-XML Subgroup; GoToMeeting May 3rd

- Participants Christian, Jan (DK), Jan (SE) and Ove.
- The meeting was used to continue the review of comments from Jan (DK).

Continued actions:

- Ove will rename Accounting Point to Metering Point, where the “point” can be both an Accounting Point and an Exchange Point.
- Ove will also update the mapping document according to agreed changes based on the comments from Jan (DK).
- Jan (SE) will try to find time to make a proposal for how physical asset (solar cells, EVs...) can be linked and which of these (and virtual objects) that are Installations, Resources, Metering Points or Accounting Points.

New actions:

- RSM 12, 14 and 19: Jan (DK) and Christian will discuss if we need Price and Quantity (EnergySum) classes associated to Point in RSM 14 (currently only used in RSM 19). The alternative is making RSM 14 equal to this RSM 12 and keep RSM 19 as is.

- Ove will replace MktActivityRecord with Series in RSM 18

14.3 Report from NMEG CIM-XML Subgroup; GoToMeeting May 10th

- Participants Christian, Jan (DK), Jan (SE) and Ove.
- Ove had updated the mapping document according to agreed changes based on the comments from Jan (DK) up to where we ended last meeting, i.e. RSM-019, including:
 - o Replaced MktActivityRecord with Series in RSM 18.
 - o Ove had also looked at all occurrences of Accounting Point but couldn't find any place where the "point" can be both an Accounting Point and an Exchange Point. In the "measure documents" the term Market Evaluation Point is used consequently in CIM.
- The meeting was used to continue the review of comments from Jan (DK), with a special focus on prices, i.e. RSM-033, RSM-034 and RSM-035.
- New meetings were planned for Mondays in June.

Continued and new actions:

- Ove will also update the mapping document according to agreed changes based on the comments from Jan (DK).
- Jan (SE) will try to find time to make a proposal for how physical asset (solar cells, EVs...) can be linked and which of these (and virtual objects) that are Installations, Resources, Metering Points or Accounting Points.
- RSM 12, 14 and 19: Jan (DK) and Christian will discuss if we need Price and Quantity (EnergySum) classes associated to Point in RSM 14 (currently only used in RSM 19). The alternative is making RSM 14 equal to this RSM 12 and keep RSM 19 as is.

15 Status for update of 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.

Further there is a need to upgrade the PHP version and make a "face lift" of the web site.

References (links): www.ediel.org.

What to decide, discuss or inform: Status.

Teemu has as action made some layout upgrades, such as using a bigger font on the left side menu and making titles in bold.

Teemu has also published a NEX page after discussions with Miika. The NEX page is found after the HNR page on the main menu.

During the meeting, Teemu added a search function for the ediel.org site.

16 Review of documents from CIM EG subgroups and IEC groups

Background: At the NMEG meeting August 2020 it was agreed that NMEG needs to be more proactive regarding commenting on new ENTSO-E and IEC documents. Hence it is added a fixed item on the NMEG agenda for review of documents from CIM EG subgroups and IEC groups that is of interest for the Nordic market.

References (links):

What to decide, discuss or inform: Review of documents from CIM EG subgroups that is of interest for the Nordic market.

16.1 Naming of UnitSymbol in ESMP

Bent Atle has noted that the naming of UnitSymbol not is consistent. The problem is that the UnitSymbol datatype and the UnitSymbol «Enumeration» has the same name.

Status after discussions in CIM EG ESMP subgroup.

Action:

- Jon-Egil will check the status with Alvaro (CIM-EG)

17 Information (if any)

Jan (SE) informed:

The “energy grid ontology”, which is related to CIM and Microsoft was released a few days ago:

<https://github.com/Azure/opendigitaltwins-energygrid/>.

It is about the grid, so it is not WG16 related, rather WG14, but it shows that also other things around CIM is happening. But we find the “prosumer” here, that would be relevant for the market – and also two Norwegian actors are mentioned: Agder Energi + Statnett.

Among other things we find the description of the UsagePoint class here:

<https://github.com/Azure/opendigitaltwins-energygrid/blob/main/Ontology/Prosumers/UsagePoint.json>

with the additions that ebIX® brought to the class a few years ago.

While searching, I also found for instance this:

<https://github.com/smart-data-models/dataModel.EnergyCIM/tree/master>.

Jan (SE) also informed that there is a new version of the “CIM Modeling guide, version 1.1”, is available here:

https://cimug.ucaiug.org/Model%20Manager%20Documents/Public/CIM%20Modeling%20Guide_v1.1.pdf

18 Next meetings and decide if next meeting will be a face-to-face meeting or GoToMeeting

NMEG Corona GoToMeetings:

- Wednesday June 23rd, 10:00 – 12:00 and 13:00 – 15:00, GoToMeeting
- Thursday August 26th, 10:00 – 12:00 and 13:00 – 15:00, GoToMeeting

NMEG scheduled face-to-face meetings¹:

- Tuesday October 12th, 09:00 – 16:00, Edisys offices in Oslo

NMEG CIM-XML subgroup GoToMeetings:

- Every Monday (except for holidays) from 10:00 to 11:30 until Monday June 28th, 2021.

19 AOB

No items.

¹ Unless otherwise explicitly stated, the face-to-face meetings start at 09:00 (CET) the first day and end 16:00 (CET) the second day.

Appendix A Overview of Nordic memberships in international standardisation bodies

Name	Member of
Anders (SE)	CGMES, ESMP
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, ESMP
Jon-Egil	NMEG, CIM EG, IEC/WG16, ESMP, CCC, CIO/LIO, TPC
Martin (SE)	CCC
Miika	CIM EG, NEX
Moustafa (SE)	CGMES
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)
NEX	Nordic ECP/EDX Group
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					1.0, 7.0
2.	NEG ERRP Reserve Allocation Result Document	a) NBS BRS for TSO/MO b) BRS for Trade	1.0					1.0
3.	NEG Area Specification Document	a) NBS BRS for Master Data b) BRS for Trade	1.0 ²	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					7.0 (not complete)
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					5.0
15.	ENTSO-E ESS Schedule Document	a) NBS BRS b) NBS BRS for TSO/MO	4.1					5.0
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						1.0
25.	ENTSO-E ERRP Activation Document	BRS for Operate						5.0 (not complete)

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.

26.	Capacity Market Document	???							7.1, 8.0
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