


Minutes: NMEG meeting Date: Tuesday and Wednesday January 28 th and 29 th , 2025 Time: 09:00 – 17:00 and 09:00 – 16:00 Place: Fingrid's offices in Helsinki	 NMEG Nordic Market Expert Group
February 4 th , 2025	

Present: Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (convenor)
Mario, Elhub
Ove, Edisys (secretary)
Søren, Nordic RCC (day two via Teams)
Teemu H, Fingrid
Teemu K, Fingrid Datahub

To (NMEG): Anne Stine, Elhub
Christian, Energinet
Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (convenor)
Mario, Elhub
Miika, Fingrid
Ove, Edisys (secretary)
Rasmus, Energinet
Teemu H, Fingrid
Teemu K, Fingrid Datahub

CC: Bent Atle, Edisys
Fedder, Energinet
Hans Erik, Elhub
Pamina, Energinet
Tage, Energinet

To (Invited guests): Antti, eSett
Søren, Nordic RCC
Tommy, eSett
Tuomas L, eSett
Tuomas P, eSett

Appendix A: Overview of Nordic memberships in international standardisation bodies



Elhub2COM.docx

Attachment: , see item 18.2.1 and 18.2.2

1 Approval of agenda

The agenda was approved with the following additions:

- BusinessType (Z-code) for "Expected imbalance", see item 9.3.2.
- Status for implementation of CIM documents by the Danish DataHub version 3, see item 12.
- What is the need for national grid models for the Nordic data hubs (discussion item), see item 13.

2 Approval of previous meeting minutes

The previous meeting minutes were approved after correction of some selling errors found by Jan (SE).

3 Alternative to Unicorn Makes (ECP) End Point in the GO language from Energinet

Background: Energinet has developed an alternative to the Unicorn Makes (ECP) End Point in the GO language that is 100 times faster than and uses 100 times less resources than the alternative from Unicorn. Energinet and Statnett will run a pilot project to test it out.

References (links):

What to decide,

discuss or inform: Status for finalising and implementation of the new ECP End Point software.

Jan (DK) informed that the project is ongoing and is going well.

Jon-Egil informed that the new ENTSO-E ECP4.17/4+ will be based on the Danish GO version, see also <https://www.entsoe.eu/ecco-sp/roadmap/>.

4 Nordic Dynamic dimensioning project (Jon-Egil)

Background: The Nordic Dynamic dimensioning project will make an optimisation of the mFRR market. It is a Nordic TSO project based on AI. It should be relevant for NMEG when the project comes to data exchange between the TSOs.

References (links):

What to decide,

discuss or inform: Status for the project.

Jan (DK) informed that also this project is ongoing and working well, which was supported by Jon-Egil.

5 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.

Further, NIT has approved the establishment of a short-term secure communication platform and short-term ECP requirements. However we will also have to investigate long-term solutions. It is NEX responsibility to do the work. NMEG will follow up and supervise.

References (links):

What to decide,

discuss or inform: Status from NEX.

Jon-Egil informed that NEX is working on some security measures related to verification of the sender of ESP messages.

5.1 How to handle the new NMEG strategic action: "Establish a secure Nordic Communication platform"?

Background: NIT has approved the establishment of a short-term secure communication platform. It is NEX responsibility to do the work. NMEG will follow up and supervise.

References (links): From the NMEG roadmap:

NMEG will together with the Nordic TSOs specify and establish a secure Nordic Communication platform for secure information exchange between the Nordic TSO organisations in case of a major IT incident and/or any secure communication need between the Nordic TSOs.

What to decide, discuss or inform: Status for the project

This is an ongoing task where the actual work is done in NEX. Jon-Egil is following the task as NMEG representative.

Jon-Egil informed that the project is ongoing, but a bit delayed. It seems that the preferred network will be the RPN network.

5.2 How to handle the new NMEG strategic action: "Establish new ECP requirements"?

Background: NIT has approved the establishment of a short-term ECP requirements. However we will also have to investigate long-term solutions. The NEX group is the one who have the knowledge and the one making the first draft of an ECP recommendation. NMEG will follow up and supervise.

References (links): From the NMEG roadmap:

NMEG will establish new ECP requirements to be sure that ECP will be compliant with the future TSO needs.

This is also a task where the actual work is done in NEX and where Jon-Egil is the NMEG representative.

Jon-Egil informed that the project has been postponed.

6 Support to Nordic RCC

Background: The Nordic RCC is a central body in the Nordic energy market with need for common data exchange standards, hence a natural member of NMEG.

References (links): None.

What to decide, discuss or inform: Update of BRs, MRs for CIM and/or ESMP, etc. All based on Nordic RCC needs.

6.1 Status for missing Reason Type Code for availability plans for Nordic RCC

The addition of a Reason Type Code for availability plans for Nordic RCC has not been discussed in NTC.

Continued action:

- Rasmus will make a draft MR to ENTSO-E (Ove has sent an example MR as a template to Rasmus).
- The MR will be discussed at a coming NTC meeting, when an MR is available.

7 Support to the NBM project

Background: The NBM-project (Nordic Balancing Model) is going forward and there is a need for several 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.

7.1 Alignment of NMEG BRSs and NBM BRSs/IGs

7.1.1 [BRS for Nordic Operational system](#)

The Nordic Operate BRS was reviewed, and some texts were added.

Action:

- Ove will clean up the BRS for Nordic Operational system, send it to NMEG for one week of commenting and finally publish it.

7.1.2 [BRS for Nordic scheduling system](#)

The BRS for Nordic scheduling system was reviewed and all comments in the document were handled.

Action:

- Ove will clean up the BRS for Nordic scheduling system, send it to NMEG for one week of commenting and finally publish it.

7.1.3 [BRS for Nordic trading system](#)

The BRS for Nordic trading system was reviewed and all comments up to chapter 2.5 were handled.

The review will continue during the next NMEG meeting.

8 Support to NBS (eSett)

Background: NMEG has made a set of BRSs for NBS (Nordic Balance Settlement). NMEG has also drafted a set of documents, both based on older ENTSO-E and ebIX® standards, and newer based on CIM. These BRSs and messages needs to be maintained and extended based on new requirements from the market.

References (links): <https://ediel.org/nordic-balance-settlement-nbs/>

What to decide,

discuss or inform: Status for the updates and extensions of/to NBS BRSs and documents.

8.1 *Status for enabling of Google analytics at www.ediel.org*

Continued action:

- Teemu H will try enabling Google analytics or similar to be able to get statistics in the future.

8.2 *CIM for NBS*

NTC has made a proposal for how to migrate from old ebIX® documents to CIM documents for the NBS ebIX® based documents.

After our October 2024 meeting Tuomas P had investigated if the “association without a name” in the “Aggregated Data Per Neighbouring Grid...” (the “MGA responsible for the measurements”) still is needed or if can we use the MarketParty (DSO) instead.

From Tuomas P:

Based on my analysis using the MarketParty (DSO) instead of “MGA” (MGA responsible for the measurements) should be fine from our perspective.

I investigated our internal documentation, and the “MGA” (MGA responsible for the measurements) is used in the data processing rules when determining the direction of the flow, out area, in area and the correct signs (+/-) for them.

In most cases, replacing it with “DSO” should be fine. I tried also thinking about scenarios where the “DSO” is same for both “In Area” and “Out Area” and if it causes any issues, but I believe that it should still work.

Action:

- Ove will verify if the actions from May 28th, 2024 (see below) is done:
 - Ove will make an MR for addition of the following to the FSKAR MeteringData_MarketDocument:
 - Add EnergyCharacteristics class and the flowCategory attribute (to be used for “Validated data for settlement for Aggregator”)
 - Add a quality attribute (to be used for “Aggregated data per neighbouring grid”)
 - Add an association from Point to Quantity called “DeltaQuantity” (to be used for “Confirmation of aggregated data per neighbouring grid”)
 - Ove will make MRs for the additions following to the EAR document:
 - Change cardinality of the MarketParticipant class to [0..*] and add a Role class
 - Add EnergyCharacteristics class and the flowCategory attribute
 - Add Settlement method to the EnergyCharacteristics class and add it to the EAR
 - Add MktPSRType
 - Add a Reason code to TimeSeries to be used for Normal/minor (Production type)
 Ove will make MRs for addition of EnergyCharacteristics class and the flowCategory attribute.
- Ove will clean up the memo, i.e. making a proposal based on the conclusions in the memo. To be discussed at next NMEG and thereafter forwarded to eSett

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

Background: NMEG is responsible for a set of BRSs and other documents, such as the NMEG code list, which 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 NMEG CIM master data documents

Continue the discussions with Jan (SE)’s colleagues from Svenska kraftnät who are working with the future “master data system”.

Ove has made a first draft of a Nordic Master data BRS, starting with the

- Ediel CIM Party Master Data Document
- Ediel CIM Portfolio Master Data Document
- Ediel CIM Resource Master Data Document

Action:

- Ove will add business rules from NBM (Unicorn) and distribute the BRS to NMEG before next meeting.

9.2 BRS for Nordic Scheduling and Ancillary Services Processes: ERRP Planned Resource Schedule Document

Continued action:

- Denmark will investigate if Business types **A10** and **A12** still are used for Ancillary services schedules in Denmark.

9.3 Update of NMEG code list (if applicable)

9.3.1 Shall we deprecate Business Type code "Z76 Day ahead prices used for CZC forecast calculation"

Decide if the Business Type code **Z76** shall be deprecated or kept. If kept, can we find a better description of the code:

Code	Name	Description
Z76	Day ahead prices used for CZC forecast calculation	Day ahead prices used for Cross Zonal Capacity forecast calculation

(CZC = Cross Zonal Capacity = The cross-zonal transmission capacity between two bidding zones.)

Continued action:

- Business experts at NRCC know of no usage. Søren to scan data once available.

9.3.2 BusinessType (Z-code) for "Expected imbalance"

From Jon-Egil:

Team Fiddy will receive "Expected Imbalance" from market participants and pass on using Kafka.

In this relation, we need a new BusinessType to be created for this new time series.

Proposal:

Code	Name	Description
ZA5	Expected imbalance	A time series to provide the expected (the prognosis of) energy imbalances for a given period.

Action:

- Ove will publish the Ediel code list (incl. the new code).

Item closed.

9.4 Status for new Nordic extended Schedule Outage Market Document

Review of the Nordic extended Schedule Outage Market Document to see if it should be published at www.ediel.org.

Conclusion:

- The work is ongoing. For the time being we will remove the item from the coming NMEG agendas.

10 Status for MRs to ENTSO-E

Background: NMEG regularly sends Maintenance Requests (MR) to ENTSO-E.

References (links): The MRs can be downloaded from our NMEG Teams Team.

What to decide, discuss or inform: Review and update of statuses for the NMEG MRs

At this meeting we will discuss if we shall rewrite “NMEG 2022/205 Addition of a Category attribute to TimeSeries in IEC62325 and ESMP”.

Status:

MR #	Content	Status
NMEG 2024/212	Add Related_Market Participant to Activation Market Document	20240205, 20240227, 20240506, 20240904, 20241007, 20241023 and 20250128: <ul style="list-style-type: none"> Jon-Egil will try finding a status.
NMEG 2024/217	Addition of a Category attribute to TimeSeries in IEC62325 and ESMP	20241023: <ul style="list-style-type: none"> Approved in CIM WG. 20250128 <ul style="list-style-type: none"> The MR is added to Redmine issue 7035 Jan (SE) will follow up.
NMEG 2024/218	Update of Role Type descriptions in the ENTSO-E code list	20240904, 20241007 and 20241023: <ul style="list-style-type: none"> Reviewed by NMEG and agreed. 20250128: <ul style="list-style-type: none"> Jan (SE) submitted the MR to ENTSO-E September 4th, 2024. Jan (SE) will follow up.
NMEG 2024/219	Add the Series class and the MktActivityRecord class to the Acknowledgement Market Document	20241007 and 20241023: <ul style="list-style-type: none"> Approved by NMEG and will be forwarded to ENTSO-E. 20250128: <ul style="list-style-type: none"> Jon-Egil will forward the MR to ENTSO-E.
NMEG 2024/220	Update of ENTSO-E EDI best practices document	20241007: <ul style="list-style-type: none"> Approved by NMEG and will be forwarded to ENTSO-E. 20241023 and 20250128: <ul style="list-style-type: none"> Ongoing, i.e. being discussed with CIM WG.

MR #	Content	Status
NMEG 2024/222	Add the marketProductType to the Reserve Allocation Result Market Document and add market product type codes to the ENTSO-E code list	<p>20241118:</p> <ul style="list-style-type: none"> • Sent to Jon-Egil for forwarding to ESMP WG/CIM WG. • We must inform Unicorn (Petr Hendrych) when approved. <p>20250114:</p> <ul style="list-style-type: none"> • From Petr: <i>“Going through the Nordic (NMEG) version is not quite ideal for us, but it depends mainly on the time of the solution through ENTSO-E. If an XSD with the new element could be through ENTSO-E within the next two months, there is no problem waiting. For example, if it could take another six months, we would have to switch to a solution via the Nordic (NMEG) version”.</i> <p>20250128:</p> <ul style="list-style-type: none"> • Jon-Egil submitted the MR during the meeting. <ul style="list-style-type: none"> ○ <i>Information from after the meeting:</i> the MR was agreed at the ESMP SG meeting January 30th and will be forwarded to the CIM WG meeting February 19th. ○ If approved, the update must be added to ESMP and published – if we are lucky maybe end of February or beginning of Mars. ○ Ove informed Petr about the status for MR after the meeting.
NMEG 2024/223	Add the new class CommunicationDetail to CIM_Market and ESMP	<p>20241216:</p> <ul style="list-style-type: none"> • First review by NMEG. • To be submitted to ENTSO-E/IEC early 2025. <p>20250108:</p> <ul style="list-style-type: none"> • Reviewed by NTC and agreed. • The MR was sent to Jon-Egil for submission to ENTSO-E/IEC. <p>20250114:</p> <ul style="list-style-type: none"> • Reviewed and approved by ENTSO-E ESMP SG. <p>20250128:</p> <ul style="list-style-type: none"> • Will be brought up at the CIM WG meeting February 19th. • If approved the MR will be sent to IEC WG13/WG14/WG16 as a discussion basis.

11 Introduction of new Danish roles

Jan (DK) presented new roles planned implemented in Denmark, such as Serial Energy Supplier, Independent Aggregator and Sharing actor (or Sharing Administrator).

The presentation is uploaded to the NMEG Teams Team.

Item closed.

12 Status for implementation of CIM documents by the Danish DataHub version 3

Jan (DK) presented the status for implementation of CIM documents by the Danish DataHub version 3.

The presentation is uploaded to the NMEG Teams Team.

Item closed.

13 What is the need for national grid models for the Nordic data hubs (discussion item)?

The item was discussed, but without any clear result. However it was agreed that there will be a need to integrate the data hub databases with the CGM and “Energy Data Space Infrastructure” in some way in the future.

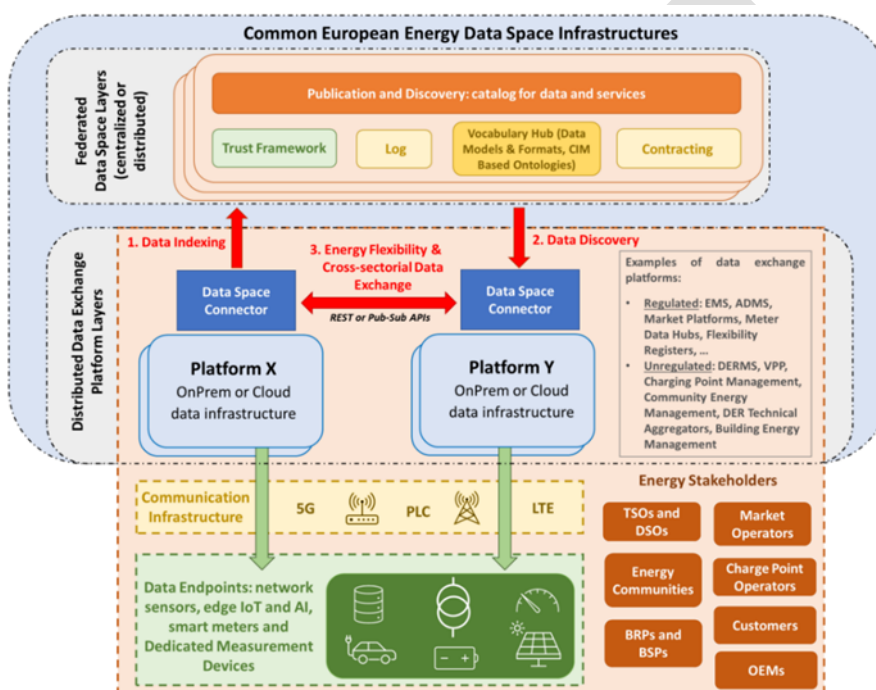


Figure 11 - Exchange of energy-related data among different data platforms (as data space participants).

Item closed.

14 Shall we ask CIM WG to establish an ESMP change log and a status log for MRs

Ove is missing a status log for MRs sent to ENTSO-E. Today ESMP SG minutes and CIM WG minutes must be searched to find a status, which is time-consuming and not always reliable.

Action:

- Jon-Egil will ask Bhagyashree to create and maintain a common MR status log.

15 Status and update of www.ediel.org if needed

15.1 Shall we remove or update links to the ebIX® web site?

From Jarno (elisa.fi):

I was familiarizing myself with the Nordic Balance Settlement (NBS) and the upcoming DERI messages for aFRR imbalance correction. Many pages on ediel.org refer to <https://ebix.org>, but it seems Ebix has decided to close down in the end of 2023. Ediel.org does not have any information

about the webmaster so I decided to reach out to you as a NMEG secretary asking whether the information and the links could be updated.

I am mainly referring to the links to Ebix.org on these pages:

- <https://ediel.org/nordic-balance-settlement-nbs/>
- <https://ediel.org/links/>

Response from Ove:

Thanks for commenting on this issue.

It is correct, as you say, that the ebIX® organisation closed down by the end of 2023. However, I believe that most of the documents published at the ebIX® web site still are valid.

It is also correct that there is no links to the web master. When ebIX® closed down it was agreed that the web site should be available for three more years, i.e. until the end of 2026, however without any maintenance.

As stated on the ebIX® web site, the work of ebIX® has been transferred to the DSO Entity and the Joint working group between the DSO Entity and ENTSO-E for further development and maintenance. This work is ongoing, and I believe that we can reference documents from the DSO Entity and the Joint working group between the DSO Entity and ENTSO-E in the not too far future.

But, when this is said, I will discuss with NMEG if we should remove or update some of the links or make a note similar to what stated above.

Action:

- Ove will go through the text at Ediel.org and make a proposal for updates.

16 Report from JWG, with a special focus on datahub topics (fixed item on the agenda)

Background: The Joint Working Group (JWG) is formed from experts being nominated by the DSO Entity and ENTSO-E. In addition to those experts, three different Task Forces (TFs) with nominated representatives from both organisations have been created with the aim of supporting the goals of the JWG. The main tasks of these TFs are:

TF1: *“Monitoring Implementing Regulations (MIR)”*

- Develop guidance to assist Member States in reporting national practices concerning access to metering data.
- Collect and monitor national practices on the implementation of the reference models for this access.

TF2: *“Developing Implementing Regulations (DIR)”*

- Contributing to developing future implementing acts: customer switching [change of supplier] and demand response.

TF3: *“Data Interoperability Modelling (DIM)”*

- Keep a repository (roles, use cases and information objects) and ensure consistency of the reference models in the Implementing Acts.
- Map the reference model to standard models and, when necessary, propose amendments, extensions, and profiles for these standard models.
- Interact and collaborate with standardization organizations.

References (links):

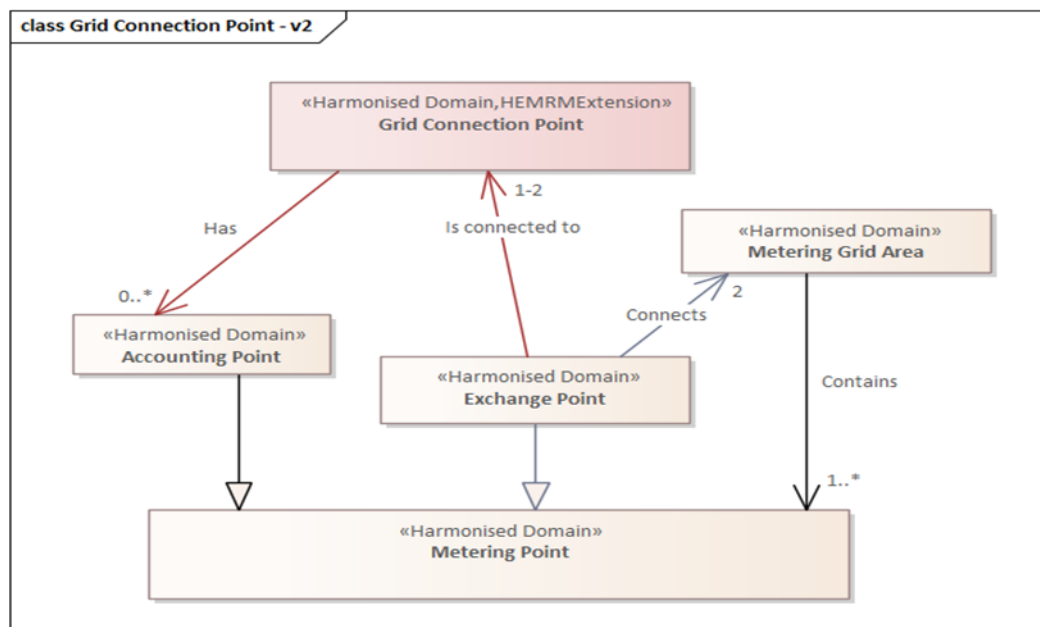
What to decide,

discuss or inform: Status in the TFs.

Report from TF3:

3. Proposal review: Grid connection point in HEMRM

- The proposed definition of Grid Connection Point is:
 - A point in the grid from where, by connecting its installation(s), energy can be fed into or taken out from one or more Metering Points
- The class diagram was rewritten:



- The new proposal will be taken to CIM WG for their feedback and later discussed in CGMES SG if required.

3. IR Access to metering and consumption data

- **Conclusions:**
 - A new MR to add code types "event type" for the market activity record class will be reviewed in the next TF3 meeting.
 - PMO will share the MR for "Permission market document" within TF3 for review/feedback before next meeting.
 - A new permission market document will be created and added in the IG after the final feedback on the energy characteristic class by UCA TF 16.
 - PMO will share the IG with the stakeholder panel review/feedback.

4. Updates: IG- Customer Switching

- **Conclusions:**
 - The TF3 is fine with the division of an overall IR CS core process into two new use cases:
 - **Switch supplier**
 - **Cancellation** of switch supplier
 - TF3 proposed to align the colors of the use case with the exchanges where needed.
 - A high-level overview on the work will be presented in the upcoming stakeholder panel
- **Conclusions:**
 - The next stakeholder panel meeting is scheduled for 05 February 2025.
 - The documents (HEMRM v2025-01 & IG- Access to metering and consumption data) will be sent for the SP review/feedback with a deadline 04 February 2025.

- PA will share the updated version of the TF2 working document with TF3, TF3 plans to review the document for the roles/info exchanges during the internal consultation period in March 2025.
- PMO will send an email to EFET(Energy traders Europe) to confirm on withdrawing the continuity of EFET copyright on HEMRM.

17 Status for a NMEG Teams Team

Background: At the NMEG meeting October 22nd and 23rd it was agreed making a NMEG Teams Team that will replace the NMEG usage of Statnett's eRoom.

References (links):

What to decide,

discuss or inform: Status for a NMEG Teams Team.

Ove had as action created a NMEG Teams Team with two channels, one for NMEG and another for NTC.

For the NMEG channel: one folder is crated for NMEG meeting documents – more folders will be created when needed.

Item closed.

18 NMEG Technical Committee (NTC)

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) 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 Bent Atle, Christian, Jan (DK), Jan (SE), Jon-Egil, Mario, Rasmus, Svein, Teemu H, Teemu K and Ove.

References (links):

What to decide,

discuss or inform: Status for looking into making CIM based document to replace the ebIX® XML documents used towards eSett today.

18.1 Report from NTC meeting January 8th, 2025

Present: Jan (DK), Jan (SE), Mario, Ove, Svein and Teemu K.

18.1.1 Status for NTC and NMEG Teams Team

Ove had created a Teams Team for NTC, however the NTC members had problems opening links Ove had sent to NTC by mail. Hence, during the first part of the meeting it was investigated how the Teams Team could be used. In the end all participants were able to edit and download the shared files and it was found a way to use Teams to inform the members of updated links (files).

It was also agreed that we will use the same Temas Team for both NTC and NMEG, however with two separate channels. During the meeting the Teams Team was renamed to "Team NMEG" with two channels; NMEG and NTC.

Action:

- Ove will invite NMEG members not already a member to the NMEG Teams Team.

Item closed.

18.1.2 MR “NMEG 2024/223 Add the new class CommunicationDetail to CIM Market and ESMP”

Ove had as action updated MR 2024/223 and distribute it to NTC for commenting at the next NTC meeting January 8th, 2025 – we should submit the MR early in 2025.

Action:

- Ove will send the MR to Jon-Egil for submission to ENTSO-E, hopefully in time for the ESMP SG meeting January 15th.

Item closed.

18.1.3 Status for missing Reason Type Code for availability plans for Nordic RCC

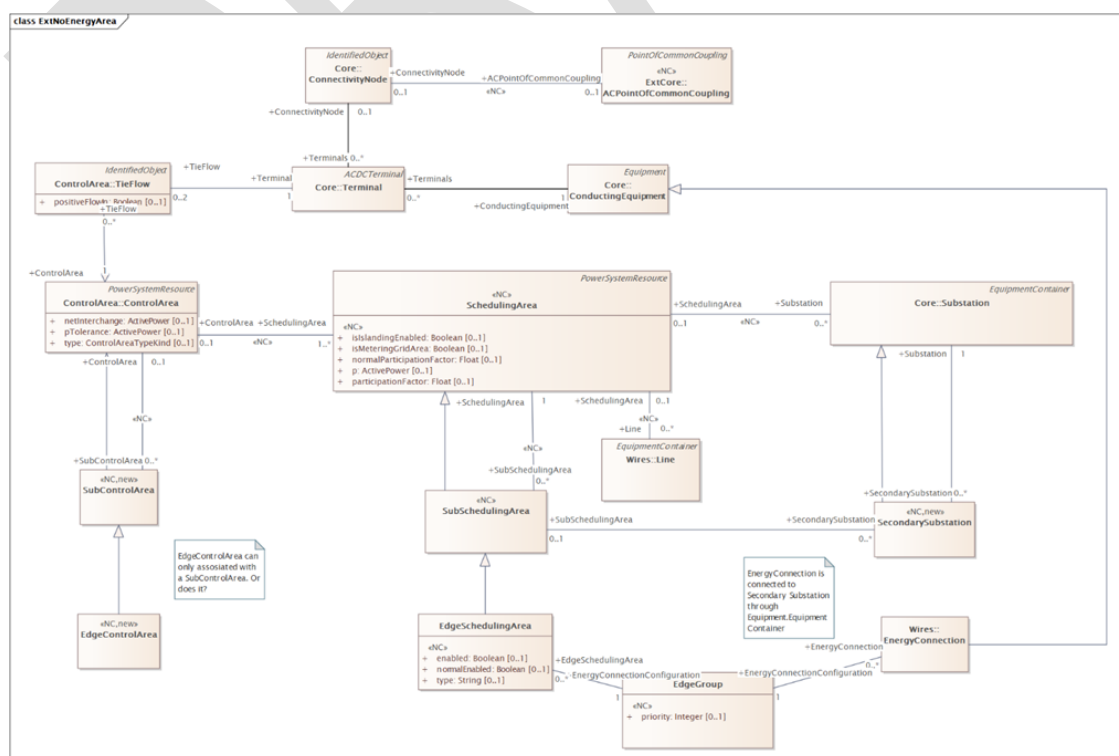
Action from previous NMEG meeting:

- Rasmus will make a draft MR to ENTSO-E (Ove will send Rasmus an example MR as a template).
- The MR will be discussed at the next NTC meeting January 8, 2025.

The item was postponed until next NTC meeting.

18.1.4 CIM model of the grid part of the Ehub Information Model (EIM)

Svein explained the intention of the class diagram shown below. For instance, the left side of the diagram represent the upstream market, the middle side represents the market in general and the right side represent the grid.



Continued actions:

- Svein will investigate if the grid loss parameters already are present in the CIM/Grid package
- If not, we will find a better description of how the grid loss attributes are calculated and used, and finally bring the topic to IEC, i.e. how the UseCase is used.

For next meeting:

- We will discuss (add) the attributes Elhub needs in the modelled classes.
- We will discuss further how to map Market Evaluation Point/Accounting Point to Equipment/Terminal.

18.2 Report from NTC meeting January 21st, 2025

Present: Jan (DK), Jan (SE), Mario, Ove, Svein and Teemu K.

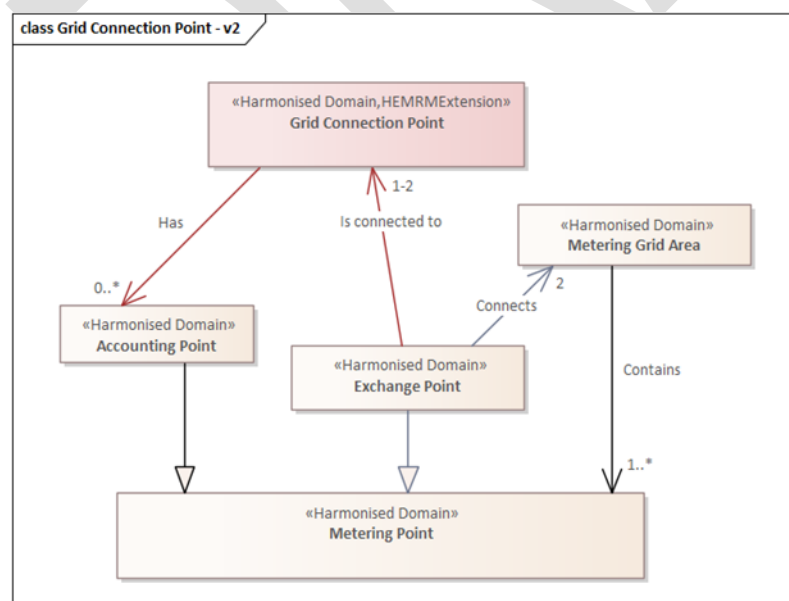
For information (from Jan (SE)):

The MR for addition of a new CommunicationDetail class in the CIM Market package and ESMP that was agreed during the previous NTC meeting, was approved at the ESMP meeting last week and will come up at the CIM WG meeting on Thursday. However, Jan (SE) has discussed the change internally at Svenska kraftnät and suggest that the change should be made to the class Organisation instead of to the class MarketParticipant – the result is the same, MarketParticipant inherits from Organisation, but then the new class can also be used in other contexts in CIM.

Further, to move forward more quickly and not have to return the MR document to ESMP, Jan (SE) propose that the change be approved but that it is registered in "Redmine" as a joint CIM case and not just for the Market part, with the intention of taking the MR up for joint discussion between the CIM WGs.

18.2.1 How does Grid Connection Point fit in CGMES?

JWG TF-3 (TF DIM) discussed at their meeting January 15th the addition of a Grid Connection Point to the HEMRM. Is there any similar concept in CGMES?



Svein thinks that the Grid Connection Point could be mapped to “Wires::EnergyConnection” or “ExtCore::ACPointOfCommonCoupling”. The EnergyConnection represents a building or similar, while the

ACPointOfCommonCoupling represent the Grid's connection to the building. If the "building" is a supermarket with two connections to the grid, there will be one EnergyConnection representing the building and two ACPointOfCommonCoupling, representing the two connections to the grid. The EnergyConnection is associated to a UsagePoint (via several intermediate classes). See also attached document "Elhub2COM.docx".

18.2.2 [CIM model of the grid part of the Elhub Information Model \(EIM\)](#)

Svein presented the current status for making a CIM model of the grid part of the Elhub Information Model (EIM), see attached document "Elhub2COM.docx".

From Mario:

On Sub Grid Area:

A Sub-Grid Area is a group of Metering Points. A Sub-Grid Area is operated by a Grid Owner, however it will be settled outside of Elhub. The Sub-Grid Area is linked to one or more Metering Points in a hosting MGA, and these Metering Points are settled as part of Elhubs allocation and reconciliation process. A Metering Grid Area, on the other hand, is a physical area where consumption, production and exchange can be metered and settled. The Metering Grid Area is delimited by meters for periodic measurement of input to and withdrawal from the area.

The Metering Grid Area can be used to establish the sum of profiled-metered Metering Points and grid loss.

The difference between a Metering Point and a Sub-Grid Area is that a Sub-Grid Area normally will be located in a small part of the MGA, e.g. shopping malls, industry parks or microgrids. The purpose of a Sub-Grid Area is to divide the power "ownerships" within a location with several different "owners". For example; the BI-building is a Sub-Grid Area, as the power must be divided between the school, and all of the different companies renting an office space in the building.

The process for managing a Sub-Grid Area is very similar to managing an MGA (with slight differences - see below!). For most processes you can therefore use the manual for 3.2 Manage Grid Area, and make smaller changes - like selecting Sub-Grid Area rather than Metering Grid Area when creating a Grid Area.

On Virtual Grid Area:

Virtual Grid Area is a type of Grid Area that does not have any geographical location. This means that it does not belong to any Market Balance Area and does not have any neighbors. Also, it does not have any exchange points or connection point linking it to other grid areas.

In addition it is a grid without loss and does not have any Balance Supplier For Losses. It does also not have any Balance Supplier of Last Resort, it is always unsettled and does not report to NBS.

A Virtual Grid Area groups Metering Points that are managed by the same Market Party (who sends its Master Data and Metering Values) but the Metering Points as such can be spread out all over Norway. So it is not a physical Grid Area represented by a geographical location as other Grid Areas. Only Metering Points with SettlementMethod equal to Not settled are allowed in the Virtual Grid Area. Metering Points in a Virtual Grid Areas cannot be included in other Grid Areas at the same time. They are as normal only linked to one Grid Area at a time. Virtual Grid Areas will not be part of any Bulk update process.

Virtual Grid Area characteristics:

- Not related to a Market Balance Area

- Not related to any Grid Areas
- No related Exchange Point or Connection Points
- SettlementMethod is Not settled
- Not reported to NBS
- No Balance Supplier of Last Resort
- No losses and no Balance Supplier For Losses (Grid without loss)
- A Grid Owner is responsible for Virtual Grid Areas where they are the owner
- No Balance Responsibility Contracts allowed
- The Virtual Grid Areas will use another ID than EYC-I codes. ID format will be of 16 characters.

Continued actions:

- Svein will investigate if the grid loss parameters already are present in the CIM/Grid package
- If not, we will find a better description of how the grid loss attributes are calculated and used, and finally bring the topic to IEC, i.e. how the UseCase is used.
- Svein will also try making a counterproposal of the JWG Grid Connection Point shown above.

For later meeting(s):

- We will discuss (add) the attributes Elhub needs in the modelled classes.
- We will discuss further how to map Market Evaluation Point/Accounting Point to Equipment/Terminal.

18.3 Review of confirm, reject and notify change of supplier

The review of the Request change of supplier mapping was finalised (i.e. review of cardinalities).

At the next NTC meeting we will start the review of confirm, reject and notify change of supplier, However, this is expected to be a smaller task, hence we will discuss at the coming NMEG meeting in Helsinki how to continue.

Action:

- Ove will generate the Request change of supplier assembly model and the related XSDs.

19 Review of documents from CIM WG 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 WG 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 WG subgroups that is of interest for the Nordic market.

19.1 Prepare Nordic positions before coming CIM WG meetings

No extra preparations needed.

20 Information (if any)

Nothing reported

21 Next meetings

NMEG:

- Tuesday February 25th, 2025, 10:00 – 13:00, Teams
- Wednesday March 19th and Thursday March 20th at Nordic RCC offices in Copenhagen Towers, Ørestads Blvd. 114, 2300 København
 - Network Codes related to remedial actions.
- Wednesday April 23rd, 2025, 10:00 – 13:00, Teams
- Tuesday June 3rd and Wednesday June 4th at Statnett's offices in Oslo
- Tuesday August 19th, 10:00 – 13:00, Teams
- Tuesday September 16th and Wednesday September 17th at Svenska kraftnät's offices in Sundbyberg

NTC:

- Friday February 7th, 2025, 09:30 – 11:30
- Thursday February 20th, 2025, 13:00 – 15:00

22 AOB

No items.

DRAFT

Appendix A Overview of Nordic memberships in international standardisation bodies

Name	Member of
Anne Stine	NMEG
Christian	NMEG
Edel (SE)	DIA, TF3
Fedder	NMEG, CIM WG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO
Jan (DK)	DIA, NMEG, IEC/WG16, TF2, TF3, DSS/557
Jan (SE)	DIA, NMEG, IEC/WG16+14, ESMP, TK57, TF2, TF3
Jon-Egil	DIA, NMEG, CIM WG, IEC/WG16, ESMP, CCC, CIO/LIO, NK57, TPC, TF3
Mario (NO)	DIA, NMEG, NK57, TF2
Oscar	CIO/LIO, CIM WG, TK57
Ove	NMEG, IEC/WG16, NK57, (TF3)
Svein (NO)	IEC/WG14+13, CGMES
Teemu H (FI)	NMEG, CIM WG, CIO/LIO
Teemu K (FI)	DIA, NMEG, TF2

Abbreviations:

CCC	Coordinated Capacity Calculation (project under CIM WG)
CGMES	Common Grid Model Exchange Standard (subgroup under CIM WG)
CIO/LIO	Central Issuing Office / Local Issuing Office
CSSG	Communication Standards (subgroup under CIM WG)
Dc	ENTSO-E Digital committee
DIA	ENTSO-E WG Data Interoperability & Access
DS S-557	Danish national IEC committee
EEAT	ENTSO-E Enterprise Architecture Team (subgroup under Dc)
ESMP	European Style Market Profile (subgroup under CIM WG)
MC	ENTSO-E Market Committee
MIT	Market Integration and Transparency (subgroup under MC)
NK57	Norsk Elektroteknisk Komite (Norsk Komité 57)
NEX	Nordic ECP/EDX Group
TF2	JWG, Task Force for the Development of the Implementing Regulations foreseen in Article 24 of the Directive (EU) 2019/944 and Reference Models (DIR)
TF3	JWG, Task Force for Data Interoperability Modelling (DIM)
TK57	Teknisk Komité 57
TPC	Transparency Platform Coordinators (subgroup under MIT)