


<b>Agenda:</b> NMEG meeting <b>Date:</b> Tuesday September 3 <sup>rd</sup> and Wednesday September 4 <sup>th</sup> <b>Time:</b> 09:00 – 16:00 (17:00?) and 09:00 – 16:00 (15:00?) <b>Place:</b> GoToMeeting	 <b>NMEG</b> Nordic Market Expert Group
September 10 <sup>th</sup> , 2024	

<b>Present:</b>	Jan (DK), Energinet Jan (SE), Svenska kraftnät Jon-Egil, Statnett (convenor) Mario, Elhub Ove, Edisys (secretary) Teemu H, Fingrid Teemu K, Finish datahub (Thursday) Svein Harald Olsen, Statnett (Thursday morning)
<b>To (NMEG):</b>	Anne Stine, Elhub Christian, Energinet Henrik, Energinet Jan (DK), Energinet Jan (SE), Svenska kraftnät Jon-Egil, Statnett (convenor) Mario, Elhub Miika, Fingrid Ove, Edisys (secretary) Teemu H, Fingrid Teemu K, Finish datahub
<b>CC:</b>	Bent Atle, Edisys Fedder, Energinet Hans Erik, Elhub Pamina, Energinet Tage, Energinet
<b>To (Invited guests):</b>	Antti, eSett Søren, Nordic RCC Tommy, eSett Tuomas L, eSett Tuomas P, eSett
<b>Appendix A:</b>	Overview of Nordic memberships in international standardisation bodies
<b>Attachment:</b>	None

## 1 Approval of agenda

The agenda was approved with the following additions:

- Shall we extend the Acknowledgement document?, see item 7.2
- Additional codes for NEG ESP Energy Account Report Document (EAR), see item 8.3.
- Versioning, see item 10.7.
- Rules for number of decimals, see item 10.8.
- Bilateral Elering-Fingrid mFRR energy trade, see item 10.9.

In the future we will use Teams instead of GoToMeeting.

## 2 Approval of previous meeting minutes

The previous meeting minutes were approved.

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

**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.

Jon-Egil informed that NIT is discussing if and/or how to implement the GO version of ECP.

## 4 Nordic Dynamic dimensioning project (Henrik)

**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.

Nothing new since Jon-Egil gave a status at the previous NMEG meeting in June.

## 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.

### 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.

### 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 to 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 an ongoing task where the actual work is done in NEX. Jon-Egil is following also this task as NMEG representative.

## 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.

Nothing new reported.

## 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 BRs and NBM BRs/IGs

Ove had as action updated the Nordic determine transfer capacity BRS but wanted NMEG to do a review of the dependency table in the BRS before publication. Hence, the BRS was Reviewed and found OK.

Also, Ove had as action updated the Nordic Operate BRS, but had some questions related to it.

The BRS was reviewed up to chapter 53 – to be continued.

#### **Action:**

- Ove will send the Nordic determine transfer capacity BRS v3r1A for one week of circulation for comments to NMEG and thereafter publish it.
- Ove will clean up BRS for Operate up to (and included) 5.2.
- Ove will continue updating NMEG BRs with content from the NBM BRs/IGs

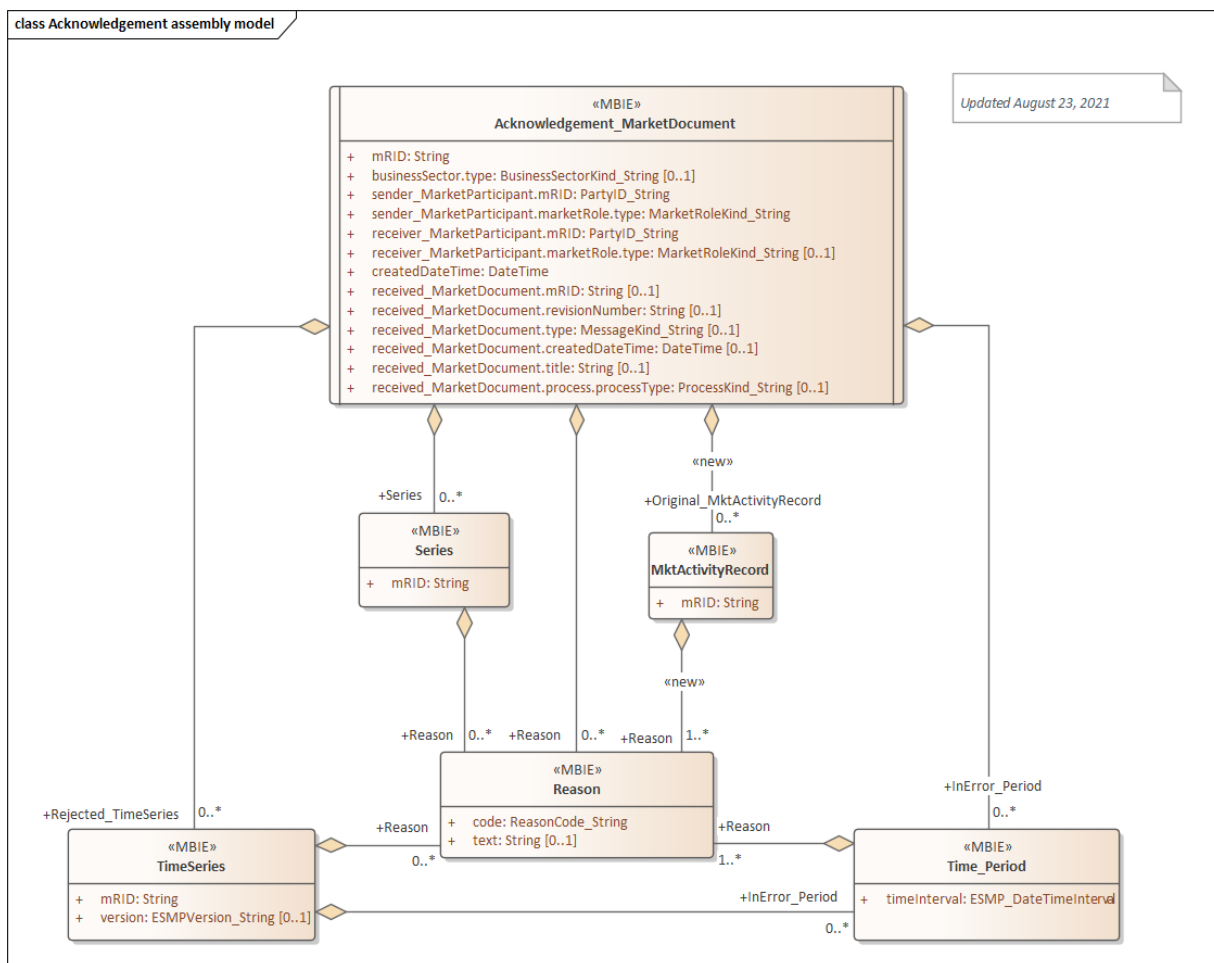
7.2 Shall we extend the Acknowledgement document?

Mail from Miloš August 26<sup>th</sup>:

I would like to ask you how we should construct the acknowledgement document if we find an error in a master data document, e.g. on the MktActivityRecord level or lower.

The current ACK schema does not support this, we can either report the error on the document level or (dis)use the TimeSeries level.

Ove suggested making a Nordic extension based on the Acknowledgement document that is planned used in Denmark, from “Memo - Mapping of Nordic datahub documents to CIM”:



If so, we should make an MR for update the Acknowledgement Document in IEC62325-451-1:

- 1) Add MktActivityRecord and an association from Acknowledgement\_MarketDocument to MktActivityRecord named Original\_MktActivityRecord, and further from MktActivityRecord to Reason.
- 2) Add a Series class, in addition to the TimeSeries class, and an association from Acknowledgement\_MarketDocument to Series, and further from Series to Reason. To be used when the acknowledged document is acknowledging a document using Series instead of TimeSeries.

Response from Miloš August 27<sup>th</sup>:

This is exactly what we need. If you approve this extended ACK on the NMEG meeting on September 5th/6th, I would appreciate if you can send me then the updated XSD file and we will start using it.

**Conclusion:**

- We will make an MR and send to ENTSO-E:
  - The TimeSeries class should be place in the middle (more in line with the current ack document)
  - As example we will reference the Danish DataHub implementation, NBM (all four Nordic countries) and the new Permission Market Document.

**Action:**

- Ove will update the Acknowledgement chapter in the Ediel Common XML rules and recommendations and make a related xml schema.
- Ove will make an MR for extending the Acknowledgement document – to be discussed at next NMEG.

## 8 Support to NBS (eSett)

**Background:** NMEG has made a set of BRs 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 BRs 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 BRs and documents.

### 8.1 CIM for NBS

The NMEG CIM-XML Subgroup has made a proposal for how to migrate from old ebIX® documents to CIM documents for the NBS ebIX® based documents.

**Still to investigate:**

- Is the association without a name (the “MGA responsible for the measurements”) still needed or can we use the MarketParty (DSO) instead?

Ove had as action:

- Made 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”)

**See:** NMEG 2024/215

- Add a quality attribute (to be used for “Aggregated data per neighbouring grid”)

**Commet from Ove:**

- There is already a quality attribute in the Point class in the FSKAR MeteringData\_MarketDocument.
- **Action (sub-action) closed.**

- Add an association from Point to Quantity called “DeltaQuantity” (to be used for “Confirmation of aggregated data per neighbouring grid”)

**See:** NMEG 2024/215

- Made an MR for the following additions 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)

*See:* NMEG 2024/216

#### **Conclusion:**

- The “Still to investigate” issue will be followed up at coming NMEG meetings.

### *8.2 Updated NBS BRS (information item)*

On July 18<sup>th</sup> Ove updated the NBS BRS and the related xml schemas with addition of a new Contract type code “**Z07** Intraday Auction Combined” to the Ediel ECAN Publication Document. The new Contract type code has consequences for the following documents, which have been uploaded to [www.ediel.org](http://www.ediel.org):

- NMEG Code List Library 2r0D 20240718.docx
- urn-entsoe-eu-local-extension-types - 2r0D.xsd
- NBS BRS (combined NBS BRS and NBS BRS for TSO-MO) v4r0B 20240718.pdf
- urn-entsoe-eu-local-extension-types.xsd and urn-ediel-org-neg-ecan-publicationdocument-1-0-local-restrictions.xsd, which can be found in:
  - ENTSO-E based Ediel documents NBS 20240718.zip and
  - Complete NBS doc 20240718.zip

The update was published at [www.ediel.org](http://www.ediel.org) directly.

There was a review of the usage of the new local Contract type code **Z07** (Intraday Auction Combined) and a few questions were raised:

- Why not use the existing Contract type code “**A07** Intraday contract” (The condition under which the capacity is allocated and handled is through an intraday auction and allocation process) instead of the new **Z07**?
- Shouldn’t we also add a new Process type for this purpose, such as “**A40** Intraday process”?

The questions were sent to eSett.

**Note:** A mail exchange after the meeting resulted in renaming of the code **Z07** to “Intraday Auction Aggregated”.

Item closed.

### *8.3 Additional codes for NEG ESP Energy Account Report Document (EAR)*

eSett is implementing an independent aggregator model to support the TSOs in their requirement to enable independent aggregators in the market.

In the model, we would like to provide following related data for the Balance Responsible Parties (BRP) and Balancing Service Providers (BSP):

- Results from the compensation calculations
- Results from the regulation imbalance calculations

Document “NEG ESP Energy Account Report Document (EAR)” would be the most suitable solution for us, and therefore we’d like to extend the allowed codes in the related XSD files.

See the attached Excel file, if you'd like to understand how we have planned to compile/use the data (consists of two sheets).

In summary, we'd need following additional codes to be supported in the XSD(s) of *NEG ESP Energy Account Report Document (EAR)*:

- Document Type:
  - **A56** Compensation Program Schedule
- Process Type:
  - **A27** Reserve resource process
- Receiver role:
  - **A46** Balancing Service Provider (BSP)
- Business Type:
  - **A23** Balance Management
  - **A95** Frequency containment reserve
  - **A96** Automatic frequency restoration reserve
  - **A97** Manual frequency restoration reserve
  - **C26** Frequency Containment Reserve-Normal (FCR-N)
  - **C27** Frequency Containment Reserve-Disturbance (FCR-D)
  - **Z85** Fast frequency reserve

These could be also included into the related NBS BRS (and other necessary documents).

**Conclusion:**

- No one saw any issues with the proposal.

**Action:**

- Ove will update the documents, send them to NMEG for commenting and publish.

Item closed.

## 9 CIM modelling of datahub databases

Svein (Statnett) will join to discuss CIM modelling of datahub databases, such as making a CIM version of the Elhub Information Model (EIM).

*From Jan (SE):*

Since we at Svenska kraftnät now will replace our old system for "master data", and create a new one, that system should – at least when exchanging information with others – use CIM.

Today our system has a list of all business actors in the Swedish market – i.e. "MarketParticipant" in CIM. They have addresses and contact information and they have roles ("MarketRole"), and that changes over time ("DateAndOrTime").

Many of these actors exchange time series with Svenska kraftnät ("TimeSeries"). We also handle time series related to these actors but not exchanged with the actor himself, e.g. with eSett or with third parties.

Another important part of our "master data" system is to register and update information about metering grid areas ("Domain") at different levels in the grid. And resources relevant for us, either "logical" ones (e.g. a sum of physical ones) or more "physical ones" (e.g. bigger resources), that are linked to "Market Participants" of different kinds, and these market objects are also linked (in

sometimes a complex way) to the UUID:s in the grid model. And a lot of more information. And a lot of events regarding those objects (“MktActivityRecord”). Of course not all is exchanged with others, but some of the information would be valuable to exchange – using CIM based messages.

One idea is also to use CIM for some of the internal information objects, even if they are not exchanged with others, but specially use CIM when we know that “this kind of information we need to exchange”. The latter would also be relevant when just exchanging internally between systems at Svenska kraftnät, and not also with others.

Since ENTSO-E has not (yet) much described the exchange of Master data, I would like to bring some examples to ESMP under CIM WG within ENTSO-E. Relevant now for NMEG is for me to ask:

- How are you exchanging master data with others?
- How much do you think we can use CIM for the pure internal information, for the information between the TSOs different systems, and with others?

Some of the possible extensions to CIM will then be just internal extensions, and we would need to have “internal tables”, “internal id:s” etcetera that are just internal and never exchanged.

*From Mario:*

Is this something you could present to us in one of NMEG meetings in the future?

It would be nice to see steps you did to switch to using CIM, which parts of CIM are you using, what us missing and how did you overcome it?

And, equally important, what is left to be done (what do we miss in CIM which proved to be important to you).

As for Elhub, we are now even near into moving in that direction. To do se, CIM would have to support both BIM (market messages) and EIM (Elhub Information Model), and we already concluded we either miss too many objects in CIM, or we can't seem to find them.

Svein presented the status for an ENTSO-E project making an extended CIM Enterprise package that includes the needs from the European CGMES, such as CIM classes for Scheduling Area, Bidding Zone etc.

CGMES documents are found at:

<https://www.entsoe.eu/data/cim/cim-for-grid-models-exchange/>

The EA version of the CGMES CIM model (.zip) can be downloaded from:

[CIM100\\_CGMES31v01\\_501-20v02\\_NC23v62\\_MM10v01.eap](#)

The Enterprise (IEC 61968) profiles are (from [Wikipedia](#)):

- IEC 61968-1 – Interface architecture and general requirements [Published]
- IEC 61968-2 – Glossary [Published]
- IEC 61968-3 – Interface for *Network Operations [NO]* [Published]
- IEC 61968-4 – Interfaces for *Records and Asset management [AM]* [Published]
- IEC 61968-5 – Interfaces for *Distributed Energy Optimization [DER]* [Under Development]
- IEC 61968-6 – Interfaces for *Maintenance & Construction [MC]* [Published]
- IEC 61968-7 – Interfaces for *Network Extension Planning [NE]* [Under Development]
- IEC 61968-8 – Interfaces for *Customer Support [CS]* [Published]
- IEC 61968-9 – Interface Standard for *Meter Reading & Control [MR]* [Published]



- IEC 61968-10 – Interfaces for Business functions external to distribution management [Retired]. This includes *Energy management & trading [EMS], Retail [RET], Supply Chain & Logistics [SC], Customer Account Management [ACT], Financial [FIN], Premises [PRM] & Human Resources [HR]*
- IEC 61968-11 – [Common Information Model](#) (CIM) Extensions for Distribution [Published]
- IEC 61968-12 – Common Information Model (CIM) Use Cases for 61968 [Retired]
- IEC 61968-13 – Common Information Model (CIM) RDF Model exchange format for distribution [Published]
- IEC 61968-14-1-3 to 14-1-10 – Proposed IEC Standards to Map IEC 61968 and [MultiSpeak](#) Standards [Under Development]
- IEC 61968-14-2-3 to 14-2-10 – Proposed IEC Standards to Create a CIM Profile to Implement MultiSpeak Functionality [Under Development]
- IEC 61968-100 – Application Integration

Part 8 and 9 are probably most interesting for mapping of Nordic datahub information models to CIM.

#### **Conclusion:**

- NTC will investigate the ENTSO-E network code extension to the CGMES model and try mapping the Elhub (and Danish, Finish and Swedish if applicable) Information Model to CGMS.
- Questions will be raised to Svein when needed.

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

**References (links):** None.

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

### *10.1 Exchange of settlement information between the Nordic TSOs*

**Background:** NMEG has made a first draft of a NMEG BRS for TSO-TSO settlement (release candidate - for test implementation).

**References (links):** None.

**What to decide, discuss or inform:** Finalise the BRS.

Ove had as action published the BRS for Nordic TSO-TSO settlement v1r1A on June 28th.

Ove had also as action made MR NMEG/2024-214 for addition of EnergyMarket and the timeFrame attribute to the FSKAR settlement document, e.g. for future use between TSOs. The MR was sent to Jon-Egil and Jan (SE) for forwarding to CIM WG on July 3rd.

*From Jan (SE) on August 6<sup>th</sup>:*

At a Nordic settlement meeting July 4<sup>th</sup>, the list of business types was discussed

- A15** Losses
- A21** Unintended energy
- A64** Metered measurement data
- C36** Ramping period energy

- Z88** Total planned flow
- Z92** Agreed Supportive Power (ASP)

The problem is about “Losses”. There are two kinds of losses, with different prices. What then would be relevant is to separate the “Imbalance losses” from the normal losses.

I.e. the suggestion from the Nordic settlement meeting was to add a new Business type code for “Imbalance losses”.

I have asked my colleagues at Svenska kraftnät to come up with a description of it, and most likely that description will be discussed at the next Nordic settlement meeting this Thursday.

Are we from NMEG able to give some input, or specify some questions before this Nordic settlement meeting? May we already now tell them “Yes, a new code for Imbalance losses looks like a good solution.” Or do we have some other suggestions on how to handle this?

Ove reserved the following code on August 9<sup>th</sup>:

Code	Name	Description
<b>ZA2</b>	Imbalance losses (reserved for “Nordic settlement group”)	Imbalance losses are the difference between procured losses (from Market Coupling) and actual losses.

For conclusion see item “0 Reserved codes – to be approved”.

**Action:**

- Ove will update the BRS, send for commenting to NMEG and publish.
- Jan (SE) will investigate if we shall update the status of the BRS

*10.2 NMEG CIM master data documents*

*Continued action:*

- Ove will make a first draft of a Nordic Master data BRS

*10.3 BRS for Nordic Scheduling and Ancillary Services Processes: ERRP Planned Resource Schedule Document for Svenska kraftnät*

Ove had as action published the BRS for schedules after circulation for comments to NMEG for one week.

*Continued action:*

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

*10.4 Update of NMEG code list*

Reserved codes – to be approved:

Code	Name	Description	Reserved by	Status
<b>Business type code</b>				

Code	Name	Description	Reserved by	Status
<b>ZA1</b>	HVDC Power distribution	A profile for planned load distribution between two or more HVDC cables.	Svenska kraftnät and Fingrid	<b>Approved</b>
<b>ZA2</b>	Imbalance losses	Imbalance losses are the difference between procured losses from Market Coupling and actual losses.	Nordic settlement group	<b>Approved</b>
<b>Document type code</b>				
<b>Z45</b>	HVDC Load profile	A document for sending the profile for planned load distribution between two or more HVDC cables.	Svenska kraftnät and Fingrid	<b>Approved</b>
<b>Reason code</b>				
<b>Z94</b>	Transit DC Loop SE4-SE3 Sydvästlänken	The object relates to Loop SE4 - SE3 (Sydvästlänken)	Svenska kraftnät	<b>Approved</b>
<b>Z95</b>	Time gate	A point in time relative to an operating day	Statnett	<b>Approved</b>
<b>Z96</b>	Rejected by operator	The result has been rejected by the operator	NBM	<b>Approved</b>
<b>Contract type code</b>				
<b>Z07</b>	Intraday Auction Combined	Nets together all different Intraday Auctions into a single value	eSett	<b>Approved</b> <b>Note:</b> Renamed to "Intraday Auction Aggregated" after the meeting

**Action:**

- Ove will update the Nordic code list and publish it.

#### 10.4.1 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:

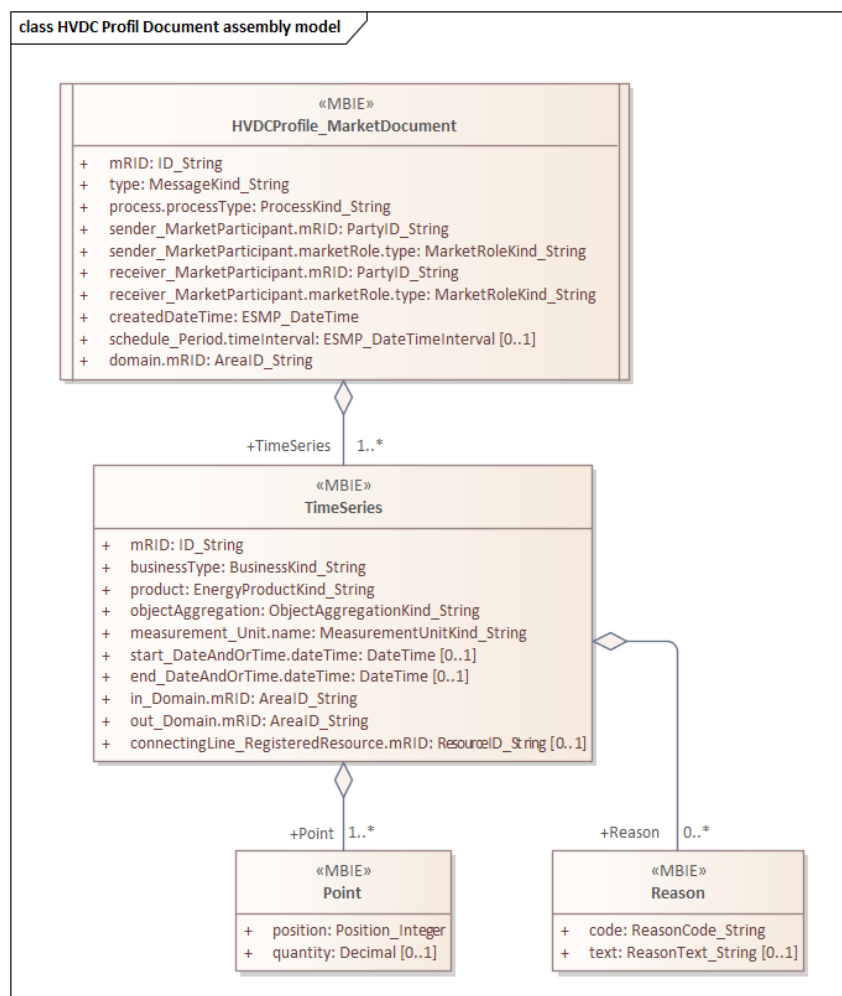
- Business experts at NRCC know of no usage. Søren to scan data once available.

### 10.5 Status for new Nordic extended Schedule Outage Market Document

Nothing new reported – to be continued.

### 10.6 Exchange of dynamic “HVDC-run-profiles”

Ove had as action from previous meeting made an assembly model for the HVDC Profile Document and the related xml schema.



Action:

- Ove will publish xml schema for dynamic “HVDC-run-profiles”

- Ove will add the document to the BRS for schedules – to be reviewed at next NMEG.

### 10.7 Versioning

Jan (SE) got a question about versioning of the HVDC Profile Document. The person who asked the question thought that they would use the "revisionNumber" attribute when sending a new version. However, the attribute is not included in the XML schema since we would still have only written "1" there ("Fixed 1").

Instead, I would like to point out that we have a basic rule in the Nordic countries that specifies a new mRID for each new message and that it is the time that becomes important to sort messages that may not arrive/are processed in the "right" order. I have chatted with Jon-Egil about this since I know that there was a proposal to get a text about this in a CIM WG document, but it was apparently not approved.

Maybe we can write something about this in "Ediel Common XML rules and recommendations"?

In the Nordic area we typically use the principle of having unique mRIDs in the messages, and then look at createdDateTime in order to see: is this message newer than the old one?

In other countries/implementations it could be the attribute revisionNumber that tells this.

A few years ago it was suggested to add a chapter to the EDI Best practice document (see the present version here [EDI best practices v2.1.pdf](#)), describing how to use revisionNumber, The suggest chapter was reviewed, slightly updated and will be added to the Ediel Common XML rules and recommendations:

#### 6 Usage of revisionNumber

There are two compliant ways to make sure that an older document is not replacing a newer one when providing updates for a document.

- Always a unique mRID, and using the createdDateTime (if the revisionNumber is required a fixed revision number of 1 should be used)
- Keeping the same mRID for documents, and increasing the revision number

Which one to use should be described in a BRS, an implementation guide or similar.

The combination of mRID and revision number shall always be unique.

Having a unique mRID and requiring increasing revision number at the same time is not the intended use of the revision number and should be avoided!

A document is considered out-of-order if it has the same or a lower revisionNumber than the latest received document with the **same mRID**. Likewise, a document with a **new mRID** is considered out-of-order if it covers a context and time period for which data has previously been received and it has an older createdDateTime than the previously received data.

It is a business decision if documents should replace the previous version completely or only update certain data.

As a reply to a received market document an acknowledgement will be submitted. The acknowledgement document will have a reference back to the acknowledged document. The information used for the reference is the mRID and revisionNumber of the original document. The acknowledgement document itself has no revisionNumber and should have a new unique document mRID.

Jon-Egil informed about the reason for not adding the text to [EDI best practices v2.1.pdf](#):

"ENTSO-E CIM WG was unable to reach an agreement with certain Central European countries... 😞. In practice, I think they were afraid to “shake their sacred cow” (“rokke ved deres hellige ku”), even though it was clear that both varieties were also in use in most countries... Maybe we can make another attempt in a bit."

Fedder endorsed the proposal of making a new try for adding the text.

**Action:**

- Ove will send the Ediel Common XML rules and recommendations on circulation for comments to NMEG for one week before publishing it.
- Ove will make a MR for adding the new text to the [EDI best practices.pdf](#)
  - Introducing a new chapter “6 Usage of revisionNumber”
  - Update of chapter 7 Harmonised role model, i.e.
    - Rename HRM to HEMRM
    - Replace “last” with “latest”
    - And probably most of:

“Please refer to HRM documentation. It is recommended to use as much as possible the HRM to describe the data exchanges. In some case (for historical reason or for discussions outside Europe) the use case of some implementation guides cannot be compliant with the last version of the HRM.

It is also obvious that the implementations can refer to the latest version of the HRM available at the implementation time, whereas there are updates and modifications of HRM published after the implementation. Therefore, it is recommended to refer in implementation guide which HRM version the implementation is based on.”

- To be reviewed at next NMEG meeting

### 10.8 Rules for number of decimals

It was added a recommendation to the Ediel Common XML rules and recommendations:

“If not explicitly stated in the process description (e.g. Implementation Guide or BRS) there is no limitation on the number of decimals”.

It is recommended that the recipient should round up (or down) to what their application can handle.

**Action:**

- Ove will send the document to NMEG for one week of commenting before publishing it.

Item closed.

### 10.9 Bilateral Elering-Fingrid mFRR energy trade

Teemu H asked for suggestions for documents to be used the following process:

These message exchanges are needed for the bilateral Elering (ER)-Fingrid (FG) mFRR energy trades. They can be looked as two pairs, so the first two (mFRR request, and price forecast) are in pair, the mFRR request requires a response which is price forecast.

The second pair is the mFRR final need and it's response the accepted request.

The business requirements are as follows:

- The first pair is there for the sender to figure out what is the estimated cost of recipients mFRR resources to fulfil the need.

1) mFRR request

In this document the sender needs to be able to specify a mFRR energy need (upward or downward regulation). The time period is fixed to being only 1 MTU (15min). Multiple documents for the same MTU are expected.

**NMEG suggestion:**

- ERRP Reserve bid document (Ediel BRS for Trade)

2) price forecast

This document needs to contain a price which is calculated based on the mFRR request. This is not a final price, but an estimate of the price in the current situation.

**NMEG suggestion:**

- ERRP Reserve bid document (Ediel BRS for Trade)

- The second pair is for the final order and a business response to it.

3) mFRR final need

In this document the sender has made the decision on how much mFRR energy for a given MTU they'd like to order from the counterparty. Of course this shall also include the direction of the regulation (upward, or downward).

**NMEG suggestion:**

- Activation document (Ediel BRS for Nordic operational system)

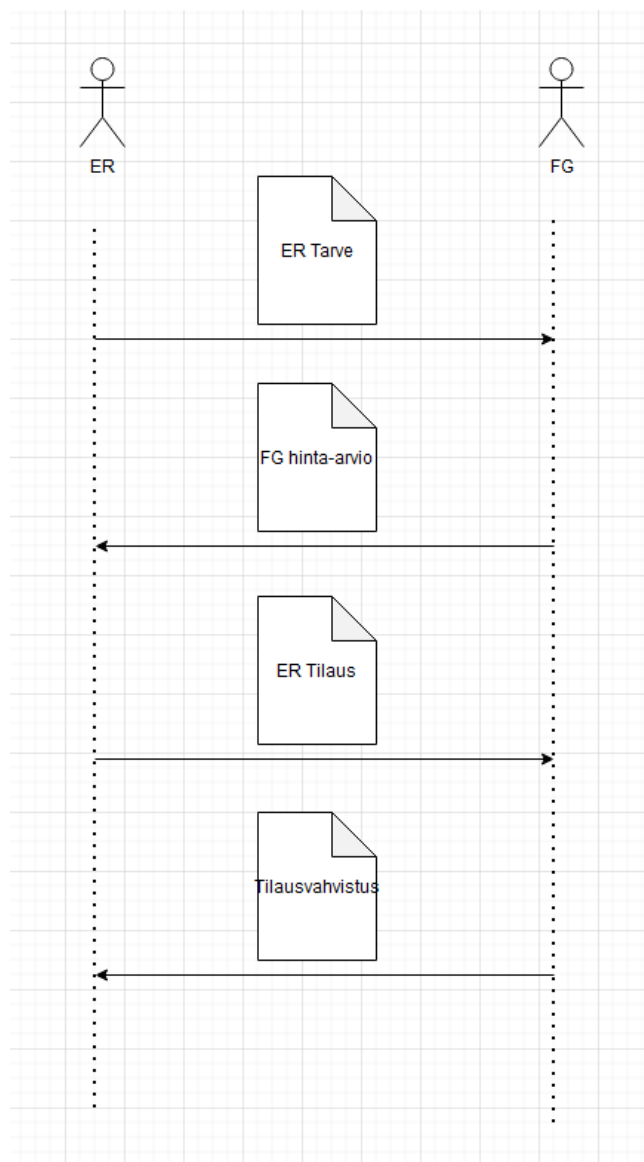
4) Accepted request

This document states whether the final need was accepted or rejected. The final need can be partially accepted, (e.g. final need of 100MW is accepted with 50MW). This also shall include the direction of the accepted regulation. The final price is not within this message.

**NMEG suggestion:**

- Activation document (Ediel BRS for Nordic operational system)

Item closed.



## 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 CIM WG.

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

**What to decide, discuss or inform:** Review and update of statuses in NMEG MR Overview document.

*Status:*

MR #		Status
NMEG 2022/205 (CIM WG)	Addition of a Category attribute to TimeSeries in IEC62325 and ESMP	<p><b>20220907:</b></p> <ul style="list-style-type: none"> <li>Forwarded by Ove to Jon-Egil for submission to CIM WG</li> </ul> <p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>Ongoing</li> </ul> <p><b>20221031:</b></p> <ul style="list-style-type: none"> <li>The MR is awaiting approval in the ENTSO-E ESMP SG before it is sent to CIM EG, hence it will probably still take a few weeks before it is handled</li> </ul> <p><b>20230124:</b></p> <ul style="list-style-type: none"> <li>Not agreed – Jon-Egil, Jan (SE) and Alvaro will draft a new proposal.</li> <li>To be continued</li> </ul> <p><b>20230222:</b></p> <ul style="list-style-type: none"> <li>Ongoing</li> </ul> <p><b>20230411, 20230830, 20231101, 20231205, 20240110, 20240205, 20240227, 20240506 and 20240904:</b></p> <ul style="list-style-type: none"> <li>Ongoing</li> </ul>
NMEG 2024/212	Add Related_Market Participant to Activation Market Document	<p><b>20240205, 20240227, 20240506 and 20240904:</b></p> <ul style="list-style-type: none"> <li>Ongoing.</li> </ul>
NMEG 2024/213	Add FlowDirection (direction) to FSKAR settlement document	<p><b>20240904:</b></p> <ul style="list-style-type: none"> <li>Ongoing.</li> </ul>
NMEG 2024/214	Add EnergyMarket (timeFrame) to FSKAR settlement document	<p><b>20240904:</b></p> <ul style="list-style-type: none"> <li>Ongoing.</li> </ul>
NMEG 2024/215	Add flowCategory and DeltaQuantity to FSKAR MeteringData document	<p><b>20240904:</b></p> <ul style="list-style-type: none"> <li>Ongoing.</li> </ul>
NMEG 2024/216	Add flowCategory, settlementMethod, psrType and Reason code + change cardinality of Market Participant to EAR	<p><b>20240904:</b></p> <ul style="list-style-type: none"> <li>Ongoing.</li> </ul>
NMEG 2024/217	Add category attribute to the EnergyMarket class	<p><b>20240904:</b></p> <ul style="list-style-type: none"> <li>Ongoing.</li> </ul>



MR #		Status
NMEG 2024/218	Update of Role Type descriptions in the ENTSO-E code list	<b>20240904:</b> <ul style="list-style-type: none"> <li>Reviewed by NMEG and agreed</li> <li>Ongoing</li> </ul>

Ove had as action made NMEG 2024/213 to NMEG 2024/217 and sent these to Jon-Egil and Jan (SE) for forwarding to CIM WG. MR NMEG 2024/217 is based on the previous NMEG 2022/205, but we ask for the category attribute in the EnergyMarket class in both ESMP and Market, instead of in the TimeSeries class.

Further Ove had aligned the name and definition of roles in HEMRM and the ENTSO-E code list in the "Role Type MR" (NMEG 2024/218) from Jan (SE). The MR was reviewed and agreed and forwarded to ENTSO-E for approval.

## 12 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):** [Call for members of the stakeholders' panels for the JWG TFs](#)

**What to decide,**

**discuss or inform:** Status in the TFs.

Teemu K informed that the TF2 Demand response project is a bit "confused" regarding the scope and the legal base. It seems that the Commission expect more from the project than currently is assumed by the project group. It is expected that there will be an "common idea" of the scope and legal base within three weeks.

Jan (SE) mentioned that there will be a physical TF3 meeting in the beginning of October.

## 13 Ediel.org Mysql issue

**Background:** [www.ediel.org](http://www.ediel.org) was down for some hours in July and it seems like the issue was around Mysql. The Mysql user we were using was deleted since it was stored under an old domain - 96873\_edieltest - (edieltest.org).

[www.ediel.org](http://www.ediel.org) is working now, but we should setup a new Mysql directly under the Ediel.org domain and move the tables/data from the old DB over to [www.ediel.org](http://www.ediel.org).

**References (links):**

**What to decide,**

**discuss or inform:** Status for moving Mysql to [www.ediel.org](http://www.ediel.org).

**Action:**

- Ove will ask Webhuset (the [www.ediel.org](http://www.ediel.org) host) what it will cost to setup a new Mysql directly under the [www.ediel.org](http://www.ediel.org) domain and move the tables/data from the old DB over.

#### 14 Status for EA16 version of CIMContextor/CIMSyntaxGen

**Action:**

- Jon-Egil will follow up, i.e. ask Eduardo for the status of the development of the software that is intended to replace CIMContextor and CIMSyntaxGen .

Jan (SE)/Ove informed that ENTSO-E is testing new versions of CIMContextor and CIMSyntaxGen, which no longer are maintained by Zamiren (Andre and Jean-Luc). The ENTSO-E intention is to publish the new versions shortly.

Item closed.

#### 15 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, Henrik, Jan (DK), Jan (SE), Jon-Egil, Mario, 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.

##### 15.1 Lemontree presentation (Mario)

Mario presented the Lemontree tool that is used for comparing and merging different EA models (branches). Elhub have permanent licenses and have moved to a Github (SaaS) solution (prior to local installation of bitbucket when they ran first pilot with Lemontree).

The examples Mario showed was, i.e. for using Sparx EA + Lemontree + Github, was distributed together with the NMEG agenda.

##### 15.2 Report from NTC meeting June 28<sup>th</sup>

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

## Membership in WG16

Mario has informed that he considers participation in CIM development and that WG16 looks right. WG16 works with IEC62325 in CIM which is interesting for Data Hubs. Jan (SE), Jan (DK) and Ove are already members there.

Maro will contact Lars Ihler at NK57 after the summer.

## Elhub and Lemontree

On June 17<sup>th</sup> Mario informed about recent update from piloting migration process:

- Source: Sparx EA 14, model in PostgreSQL database  
Destination: Sparx EA 16, model in qeex file.
- Problems with errors remain.
- I am in contact with Sparx EA to get proper advice on these errors which pop up regardless of whether we correct the model at source or not.
- If someone has some practical advice, it would be more than welcome.
- P.S. I am not allowed to share Elhub EA models freely in this form, logs and procedure are attached.

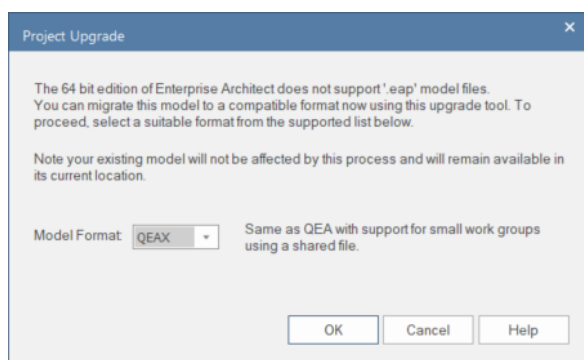
On June 24<sup>th</sup> Mario distributed updated examples for using Sparx EA + Lemontree + Github. Elhub now have permanent licenses and have moved to Github (SaaS) solution (prior to local installation of bitbucket when we ran first pilot with Lemontree).

Mario will present some details and even live examples when we meet in Oslo in September.

## EA file formats and migration issues

*From Mario:*

Sparx EA 16 (64bit) doesn't support eap file format in which CIM is delivered. Conversion to qeax went smoothly.



Maybe we can propose that CIM file format is upgraded according to latest EA version compatibility format(s). I chose qeax (and not qea) since that is the recommended format for Lemontree versioning further down the line.

*From Fedder:*

The change in file format is really a change in database driver from Microsoft Jet engine (aka Microsoft Access) to SQLite. The "upgrade" is actually an EA recreating the file (which is indeed a database) from one engine to another. There is no straightforward downgrade option! (Though you can probably export the model in XMI format and the import that in the older version).

I fully support the desire to change to the newest version but suggest that this is coordinated with the model manager of TC57/WG16 (Becky Iverson) and ESMP (Bhagyashree Wahie). In any case, it'll still be possible to exchange models (packages) using XMI format irrespective of which version of Sparx EA is being used (I think).

*From Mario:*

This is no big issue, of course, but it would be nice to see CIM model evolves as underlying modelling tool changes. I would prefer to see CIM model distributed in the form it can be opened directly, and not requiring import by default.

Regarding model itself, could someone run Project Integrity Check on CIM18v10 in eap format? I have only EA16.1 here and can check model after migration. There I see following issues:

```
+-----
| Integrity Check Report.
| Generated: onsdag, 26 juni, 2024
| No. Items: 2
+-----
```

- 1 - Mismatched classifier name/type. ITEM: Counted 61. ACTION: Update type.
- 2 - 1 Duplicate Stereotypes. ITEM: element property. ACTION: Delete duplicate Stereotypes.

I wonder if this is present in source format, or it was introduced during migration.

*From Bent Atle:*

Sparx Systems Enterprise Architect provides a convenient file-based repository for modeling projects. Here's the difference between **QEA** and **QEAX** files:

#### 1. QEA Files:

- **Format:** .qea
- **Database Type:** SQLite
- **Recommended For:** Single-user, single-desktop, file-based modeling
- **Platform Compatibility:** Works seamlessly across Windows, Linux, and Mac (using Wine) in both 32-bit and 64-bit versions
- **Advantages:** Based on the well-regarded open-source SQLite3 codebase, extendable, no need for third-party drivers, and supports basic replication for merging changes
- **Use Case:** Ideal for individual modelers or small teams
- **Version Support:** [Introduced in Enterprise Architect version 16.0 and later<sup>1</sup>](#).

#### 2. QEAX Files:

- **Format:** .qeax
- **Recommended For:** Very small workgroups sharing a file on a network share
- **Platform Compatibility:** Similar to QEA files
- **Use Case:** Suitable for small collaborative teams

**Note:** [Renaming a .qea file to .qeax effectively converts it to a QEAX file<sup>2</sup>](#).

During the meeting Ove ran an integrity check on his EA model and here five errors were found. After cleanup the model seems OK.

In parallel Jan (SE) ran an integrity check on the latest model from Becky and there he got one error related to duplicate stereotypes.

## HVDCProfile\_MarketDocument

Jan (SE) (June 25<sup>th</sup>) had generated an XML example with 24000 lines... Or rather 24001 rows – from -1200 MW (total) to +1200 MW with the step 0.1 MW on the total becomes 24001 rows. The amount is not sent in the example. And "column 1" and "column 2" are in the example completely linear, they will not be in reality.

The file becomes quite large, which raises the question: how big can XML files be? For EDIFACT, we have a general rule in Sweden of a maximum of 1 Mbyte, but you can send larger files if the sender and recipient agree on it. In the "Ediel Common XML rules and recommendations" it is stated "*The interchange size is dependent on the communication channel used; hence no Nordic advice is given for the max size*". It was decided not to do anything now.

More importantly, Jan is missing a current urn-entsoe-eu-local-extension-types.xsd file with the new codes LocalMessageType: **Z45** (HVDC Load profile) and LocalBusinessType: **ZA1** (HVDC Power deployment). Sure, I put them myself in an internal file, but the codes then need to be able to be downloaded by Fingrid and Svenska kraftnät from [www.ediel.org](http://www.ediel.org).

I have asked my internal colleagues to send the example (and the schematic) to Fingrid and we will see what they say.

### **NBM usage of ECP endpoint, EDX service and allowed e-mail domains**

Ove had got a response from Miloš regarding the NBM usage of ECP endpoint, EDX service and allowed e-mail domains:

- We use the following convention:
  - Multiple allowed e-mail domains are delimited by comma. ECP endpoint, EDX service and allowed e-mail domains as a whole are delimited by semicolon.

#### **Examples:**

- 1) BSP1ENDPOINT;BSP1SERVICE;bsp1.no,bsp1.eu
- 2) BSP1ENDPOINT;BSP1SERVICE;
- 3) ;;bsp1.no,bsp1.eu

All these three fields are required by NBM.

The information was taken ad notam.

### **Ediel BRS for change of supplier**

Ove had as action from previous meeting:

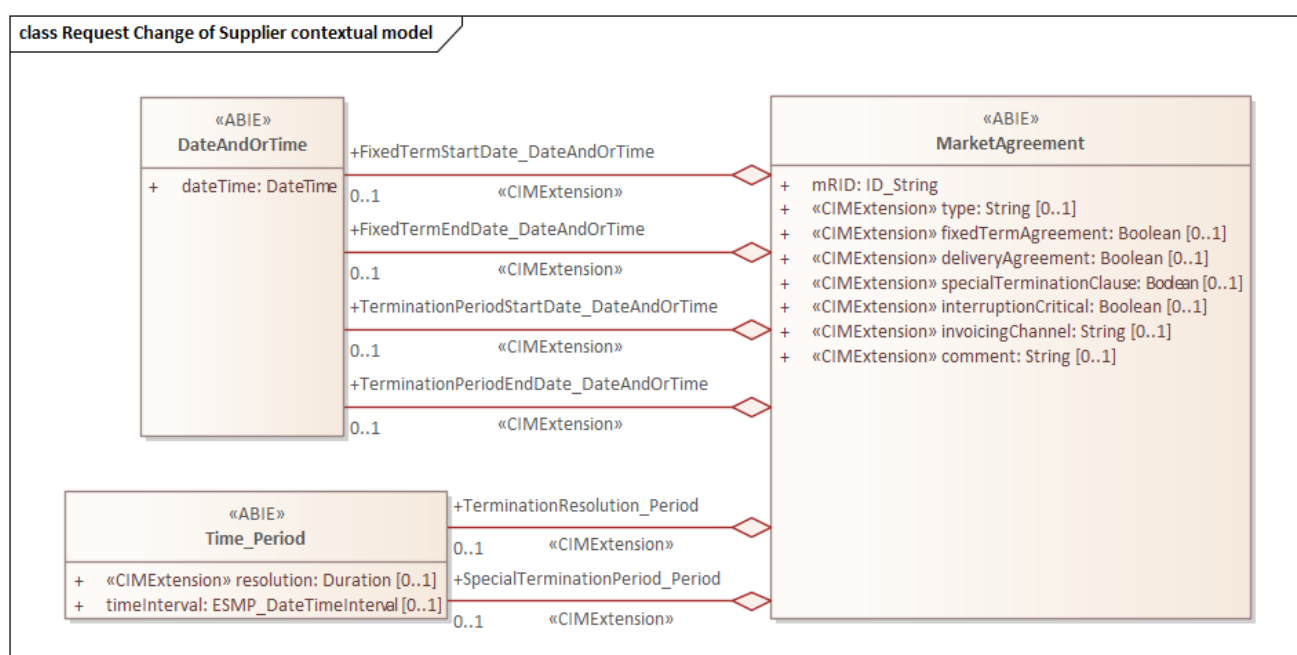
- Made MarketAgreement "mRID" required and "type" optional.
- Added the "reason" attribute (optional) to the MktActivityRecord be used for "Reason for transaction".
- Added the measurementMethod attribute to AccountingPoint to handle the Swedish "Measuring method" (e.g. **Z03** = Defined by Metering point administrator).
- Replaced the ContactPoint class with the new Communication class.
- Updated the attribute table in the BRS to reflect the update of the model.

#### **Action:**

- Unless we have heard anything from Jean-Luc or Andre at the first NTC meeting after summer, Ove will ask them for a status for the migration of CIMContextor and CIMSyntaxGen to EA16.
- Ove will publish the latest NMEG code list and the related urn-entsoe-eu-local-extension-types.xsd file.

- Teemu K will verify the Finnish usage of:
  - terminationPeriodStartDate\_DateAndOrTime.dateTime
  - specialTerminationPeriod\_Period.resolution
  - specialTerminationPeriod\_Period.timeInterval
  - terminationResolution\_Period.resolution
  - terminationResolution\_Period.timeInterval
  - fixedTermStartDate\_DateAndOrTime.dateTime
  - terminationPeriodEndDate\_DateAndOrTime.dateTime
  - fixedTermEndDate\_DateAndOrTime.dateTime

i.e. to see if we can remove any of the associations between MarketAgreement and DateAndOrTime/Time\_Period:



### 15.3 Report from NTC meeting August 22<sup>nd</sup>

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

From Jan (SE) July 3<sup>rd</sup>:

We have now described what the settlement information that is exchanged between us TSOs should look like, see <https://ediel.org/wp-content/uploads/2024/06/BRS-for-Nordic-TSO-TSO-settlement-v1r1A-20240628.pdf>

But what happens before you get that far? Is the "settlement basis" sent between "Fifty" and the corresponding system at other TSOs? Or common systems.

Well, a lot is probably included here <https://nordic-balancing.pages.fifty.eu/information/TSO-TSO/MessageImplementationGuides/mig.html>

But to get specific:

A resource was activated.

For a corridor between SEx and NOx, there was an energy exchange that differs from the plan. Is this energy exchange (the amount of energy) sent between systems in the Nordic countries (Fifty...)

before the corresponding information is then sent according to the TSO-TSO-settlement guide? In the latter case, the information goes from our settlement system (Generis), but here I think that "Fifty" sends the information?

And: Which message should be used in this (supposed) process, it is certainly not the process "FSKAR Settlement"?

**Conclusion:**

- Jan will investigate a bit more and eventually ask for a NMEG review of the issue.
- Item closed.

*Mail exchange between Mario, Ove and Jan (SE) August 13<sup>th</sup>:*

*Mario:*

- I got informed internally in Elhub that some codes changes in Sweden. Not much more than this line: "New version of PRODAT DGI instead of DDQ for Energitjänsteföretag." Anybody knows something about it and where can I find more details?

*Ove:*

- **DGI** is the UN/CEFACT code for "Energy Service Company (ESCO)", hence I guess that it only replaces **DDQ** when sending to or receiving from ESCOs and not when communicating to/from normal Energy Suppliers.

Code	Name	Description
DGI	Energy Service Company (ESCO)	A party offering energy-related services to the Party Connected to Grid, but not directly active in the energy value chain or the physical infrastructure itself. The ESCO may provide insight services as well as energy management services.
DDQ	Energy Supplier	A party supplying energy to a party connected to the grid at an accounting point. In case of a surplus, the energy supplier may also take back energy.

*Jan (SE):*

- The introduction of the code DGI for ESCOs will complement, and not replace DDQ. The English translation is based on a "poorly formulated text in Swedish". The text could slightly better have stated something like "Instead of using DDQ the new usage of PRODAT will use the code DGI."

And of course the old usage of DDQ will remain, the Energy suppliers will not have change their usage of PRODAT. Only DSO:s and ESCO:s will need to update their systems.

ESCOs will now, due to the Swedish implementation of the EU regulation 2023/1162, [https://eur-lex.europa.eu/eli/reg\\_impl/2023/1162/oj](https://eur-lex.europa.eu/eli/reg_impl/2023/1162/oj), have to exchange master data with the DSOs.

And the master data message in Sweden is PRODAT.

Our current plan is to add four new types of PRODAT, Z13, Z14, Z15 and Z16, in order to handle this kind of master data. However, the government will not update their regulation ("förordning") before December, so it is only then we would know if the DSO:s will e.g. get the role permission administrator.

Is there a UN/CEFACT code for permission administrator?

The implementation of the new EU regulation ought to have been done in January next year, but it is not enough time to implement new versions of PRODAT before that. And in the best of worlds we ought to change to CIM based messages instead of EDIFACT, but then it would take even longer to implement the new messages and follow the regulation. We will change

to CIM based messages, but that will take some years. While the new PRODAT messages we think could be up and running in April next year.

We will also use the code DGI in the UTILTS messages, today we there use the code DEC when sending metered data to the final customer, or to his ESCO. From April next year the code DGI will be used when sending to the ESCO, but DEC still used if sending directly to the final customer.

- *Ove:*
  - **DGH** (Consent Administrator) can maybe be used as UN/CEFACT code for “Permission Administrator”:

Code	Name	Description
DGH	Consent Administrator	A party responsible for keeping a register of consents for a domain. The Consent Administrator makes this information available on request for entitled parties in the sector.

**Conclusion:**

- Item closed.

At the previous meeting it was agreed: Unless we have heard anything from Jean-Luc or Andre at the first NTC meeting after summer, Ove will ask them for a status for the migration of CIMContextor and CIMSyntaxGen to EA16.

Ove informed that Jan (SE) and Ove will run a set of CIM (ESMP) training session in September and October for ENTSO-E. It seems to be four 2-hours basic sessions and four 4-houers advanced sessions. Consequently, ENTSO-E plan to publish the latest version of CIMContextor and CIMSyntaxGen at the ENTSO-E web site – and is promised that this version will support the EA 16, both 32 and 64 bit.

**Conclusion:**

- Item closed.

Teemu K had as action from previous meeting verified the Finnish usage of:

- terminationPeriodStartDate\_DateAndOrTime.dateTime

**Conclusion:**

- Not used – removed from model

- specialTerminationPeriod\_Period.resolution

**Conclusion:**

- Needed as is

- specialTerminationPeriod\_Period.timeInterval

**Conclusion:**

- Needed as is

- terminationResolution\_Period.resolution

**Conclusion:**

- Not used – removed from model

- terminationResolution\_Period.timeInterval

**Conclusion:**

- Not used – removed from model

- fixedTermStartDate\_DateAndOrTime.dateTime

**Conclusion:**

- Was moved to fixedTermPeriod.timePeriod



- terminationPeriodEndDate\_DateAndOrTime.dateTime
  - Not used – removed from model
- fixedTermEndDate\_DateAndOrTime.dateTime
  - Was moved to fixedTermPeriod.timePeriod

Also several other comments to the Request change of supplier attribute usage table were discussed and resolved.

**Action:**

- Most of the attributes in the compounds (green background) are currently not available in ESMP – Ove will try using CIM extension rules to extend ESMP.

At the next meeting we will figure out how to handle the requirement from Elhub to have two occurrences of UsagePointLocation and having CareOf, AttentionOf and OnBehalfOf attributes in both.

*15.4 Report from NTC meeting August 27<sup>th</sup>*

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

Ove asked if he could share the BRS for change of supplier with a German (Tennet) project that among others intend developing a German change of supplier document based on CIM and a related Implementing Guide.

**Conclusion:**

- NTC thinks this is OK after having added a watermark saying: “Early draft”.

*Mail from Miloš August 26<sup>th</sup>:*

I would like to ask you how we should construct the acknowledgement document if we find an error in a master data document, e.g. on the MktActivityRecord level or lower.

The current ACK schema does not support this, we can either report the error on the document level or (dis)use the TimeSeries level.

**Conclusion:**

- We will bring up the issue at the coming NMEG meeting under item “7.2 Shall we extend the Acknowledgement document?”.

*From Jan (SE):*

Since we at Svenska kraftnät now will replace our old system for “master data”, and create a new one, that system should – at least when exchanging information with others – use CIM.

Today our system have a list of all business actors in the Swedish market – i.e. “MarketParticipant” in CIM. They have addresses and contact information and they have roles (“MarketRole”), and that changes over time (“DateAndOrTime”).

Many of these actors exchanges time series with Svenska kraftnät (“TimeSeries”). We also handle time series related to these actors but not exchanged with the actor himself, e.g. with eSett or with third parties.

Another important part of our “master data” system is to register and update information about metering grid areas (“Domain”) at different levels in the grid. And resources relevant for us, either “logical” ones (e.g. a sum of physical ones) or more “physical ones” (e.g. bigger resources), that are linked to “MarketParticipants” of different kinds, and these market objects are also linked (in sometimes a complex way) to the UUID:s in the grid model. And a lot of more information. And a lot of events regarding those objects (“MktActivityRecord”). Of course not all is exchanged with others, but some of the information would be valuable to exchange – using CIM based messages.

One idea is also to use CIM for some of the internal information objects, even if they are not exchanged with others, but specially use CIM when we know that “this kind of information we need to exchange”. The latter would also be relevant when just exchanging internally between systems at Svenska kraftnät, and not also with others.

Since ENTSO-E has not (yet) much described the exchange of Master data, I would like to bring some examples to ESMP under CIM WG within ENTSO-E. Relevant now for NMEG is for me to ask:

- How are you exchanging master data with others?
- How much do you think we can use CIM for the pure internal information, for the information between the TSOs different systems, and with others?

Some of the possible extensions to CIM will then be just internal extensions, and we would need to have “internal tables”, “internal id:s” etcetera that are just internal and never exchanged.

*From Mario:*

Is this something you could present to us in one of NMEG meetings in the future?

It would be nice to see steps you did to switch to using CIM, which parts of CIM are you using, what us missing and how did you overcome it?

And, equally important, what is left to be done (what do we miss in CIM which proved to be important to you).

As for Elhub, we are now even near into moving in that direction. To do se, CIM would have to support both BIM (market messages) and EIM (Elhub Information Model), and we already concluded we either miss too many objects in CIM, or we can't seem to find them.

*From Ove:*

Will be a topic on our NMEG meeting September 5<sup>th</sup> and 6<sup>th</sup> under item “9, CIM modelling of datahub databases”.

**Conclusion:**

- We will bring up the issue at the coming NMEG meeting under item “9 CIM modelling of datahub databases”.

Thereafter it was discussed how to handle the requirement from Elhub to have two occurrences of UsagePointLocation and having CareOf, AttentionOf and OnBehalfOf attributes in both.

**Conclusion:**

- We add an association from UsagePointLocation to Name in ESMP (Already in the Enterprise package).
- We add three associations from UsagePointLocation to Name in the Request change of supplier document named CareOf\_Names, AttentionOf\_Names and OnBehalfOf\_Names.
- We increase the cardinality of the association from AccountingPoint\_MarketParticipant to UsagePointLocation to [0..\*] in ESMP, but use [0..2] in the document.

**Action:**

- Teemu will verify if the MarketAgreement/Customer\_UsagePointLocation fits the datahub model.
- Ove will look in the “EC IR for access to metering and consumption data, <https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:32019L0944> etc. to see if he can find better terms for “household” and “company”?

**16 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.

*16.1 Prepare Nordic positions before coming CIM WG meetings*

Nothing to prepare.

**17 Information (if any)**

Jan (SE) noted that all European countries shall implement the IR on End Customer access to metering and consumption data.

**18 Next meetings****NMEG:**

- Monday October 7<sup>th</sup>, 10:00 – 12:30, GoToMeeting
- Tuesday October 22<sup>nd</sup> and Wednesday October 23<sup>rd</sup> at Svenska kraftnät’s offices in Sundbyberg
- Monday December 16<sup>th</sup>, 11:00 – 14:00
- Tuesday January 28<sup>th</sup> and Wednesday January 29<sup>th</sup> at Fingrid’s offices in Helsinki

**NTC:**

- Friday September 13<sup>th</sup>, 10:00 – 12:00
- Wednesday September 18<sup>th</sup>, 09:00 – 10:30
- Thursday October 3<sup>rd</sup>, 12:00 – 14:00

**19 AOB**

No items.

## 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)