


Minutes: NMEG meeting Date: Wednesday February 28 th and Thursday February 29 th , 2024 Time: 09:00 – 16:00 (17:00?) and 09:00 – 16:00 Place: Fingrid's offices in Helsinki March 4 th , 2024	 Nordic Market Expert Group
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Present: Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (convenor)
Mario, Elhub
Ove, Edisys (secretary)
Teemu H, Fingrid
Teemu K, Finish datahub
Tuomas P, eSett (day 2 during item 10)

To (NMEG): 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

CC: Bent Atle, NBM/Svenska kraftnät
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

Appendix B: Overview of the usage of xml-schemas in the Nordic countries

Attachment: None

1 Approval of agenda

The agenda was approved with the following additions:

- Is it time to update the NMEG BRs with the missing NBM IG specifications?, see item 9.4.
- Exchange of balancing reserve requirements, see item 9.5.
- Question related to Request change of supplier from NTC, see item 23.3.

- Nordic TC 57 half-year meeting March 21st, 09:00 – 11:00, see item 27.1 under AOB.
- Swedish comments to 57/2625/CDV, see item 27.2 under AOB.

The date for the next NMEG GoToMeeting April 9th was changed to April 8th, since it is planned a physical “ebIX[®] handover to DSO Entity meeting” on this day.

2 Approval of previous meeting minutes

The previous meeting minutes were approved after correcting the style used in two paragraphs.

3 Status for the handover of ebIX[®] deliverables to the DSO Entity

Background: ebIX[®] closed down by the end of 2023 and the DSO Entity has agreed to take over the ebIX[®] deliverables

References (links):

What to decide,

discuss or inform: Discuss and resolve possible consequences for NMEG.

The handover from ebIX[®] to DSO Entity process is ongoing. So far four Teams meetings have been held. The fifth is planned next week. The meetings have so far been used to start making a BRS for the “Implementing Regulation (IR) Procedures for access to metering and consumption data”, as an exercise in how to make an UMM based BRS.

4 Alternative to Unicorn Mades (ECP) End Point in the GO language from Energinet (Henrik)

Background: Energinet has developed an alternative to the Unicorn Mades (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 Energinet intend to buy the code from the developer so that the software can be maintained by the TSOs.

To be continued.

5 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.

The item was postponed.

6 Status for cooperation with NEAT and contribution to NMEG ECP strategic themes

Background: 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 for the project

6.1 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

Continued action:

- Jon-Egil will contact the convener of NDS (a security group under NIT) and NEX to discuss how NDS, NEX, NEAT and NMEG shall cooperate.

6.2 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.

Continued action:

- NMEG will follow up on NEX.

7 Status from NEX (Nordic ECP/EDX Group)

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

References (links):

What to decide,

discuss or inform: Status from NEX.

Jon-Egil informed that NEX is looking into a secure ECP TSO network.

8 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 BRSSs, MRs for CIM and/or ESMP, etc. All based on Nordic RCC needs.

The item was postponed.

9 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.

9.1 CIM master data documents for NBM based on NBS master data documents

NBM/Fifty/Unicorn has verified the new CIM based master data documents, i.e. Portfolio master data document, Resource master data document and Party master data document. Currently these are published at ediel.org as a memo only. Should we add them to one of our BRSSs or eventually make a new BRS for them?

Ove also informed that Unicorn had found some spelling errors in the xml schemas for the Portfolio master data document and the Resource master data document (some ValidityStart/End was written Validitystart/end). This was corrected Monday this week and the schemas has been republished.

Continued action:

- Jon-Egil will investigate within CIM WG if they have a good place for “ECP endpoint”, “EDX service” and “Allowed email domains: string”
- Jan (SE) will investigate within WG16 if they have a good place for “ECP endpoint”, “EDX service” and “Allowed email domains: string”

The action items will be moved to item “11, Status and update of Nordic BRSSs and other documents if needed” in the next agenda.

Item closed.

9.2 New ReserveAllocationResult_MarketDocument reason codes for NBM

At the previous NMEG meeting it was agreed using Reason code “**B49** Balancing” for normal bids (pay-as-cleared) and “**B22** System regulation” for bids when system regulations are needed, such as for bottlenecks. I.e. creating one document but duplicate the time series.

Action:

- Ove will add Reason code “**B49** Balancing” for normal bids (pay-as-cleared) and “**B22** System regulation” for bids when system regulations are needed to the Reserve Allocation Result Market Document to NMEG BRS for Nordic trading system. The Reason code “**B22** System regulation” is typically used for bottlenecks. When used, it is expected that the message contains separate two time series for the two Reason codes.

Item closed.

9.3 New NBM Reason codes

From Bent Atle:

We need 2 new reason codes. Note that they follow a pattern I'm not a big fan of, since tags should be generic. But in this case, I'm breaking with my principles as we've already made the mistake of creating specific codes earlier. E.g. “SB Loop” means “Storebælt Loop”, so if we make two more Reason codes for the same purpose, we cover all Loop Transits. We need the following new Reason codes:

Fennoskan: FS Loop
DC loop Polen: PL Loop

In today's solution we have the following specific Reason codes.

Z26	Transit triangle	The object relates to Transit triangle
Z28	Transit SB Loop Long	The object relates to Transit SB Loop Long
Z52	Transit SB Loop Short	The object relates to Transit SB Loop Short

The following new Reason codes have been reserved:

Z87	Transit Fennoskan: FS Loop	Reserved for NBM: The object relates to Transit Fennoskan: FS Loop
Z88	Transit DC loop Poland: PL Loop	Reserved for NBM: The object relates to Transit DC loop Poland: PL Loop

Conclusion (and action):

- The new codes were agreed, and Ove will publish the updated code list directly.

Item closed.

9.4 Is it time to update the NMEG BRSs with the missing NBM IG specifications?

Conclusion:

- Yes, Ove will start going through the NBM IGs and start updating the relevant NMEG BRSs. All questions will be dealt with in NMEG before publication.

Action:

- Ove will start going through the NBM IGs and update the relevant NMEG BRSs. Questions will be dealt with in NMEG before publication.

9.5 Exchange of balancing reserve requirements

From Miloš:

I would need to solve one issue regarding the exchange of balancing reserve requirements.

On aFRR/mFRR market, we have the following rules for business type:

- demand = **B75**
- minimum localization constraint (at least this quantity must be procured locally) = **A60**
- maximum localization constraint (at most this quantity can be procured locally) = **A61**

However, on FCR market, we have the following rules of business type:

- FCR-N = **C26**
- FCR-D = **C27**

As a consequence, we are unable to distinguish demand and minimum/maximum localization constraint for FCR requirements.

I would like therefore to propose to unify the meaning of the business type to what we have on aFRR/mFRR market.

The information whether the time series contains FCR-N or FCR-D is redundant anyway because we are able to derive it from the direction:

- **A03** = FCR-N Symmetric
- **A01** = FCR-D Up
- **A02** = FCR-D Down

If you do not agree with my proposal, could you please propose another way how to solve this issue?

The proposal from Miloš was reviewed and the following solution was proposed:

- We suggest using standard_MarketProduct.marketProductType. Today there are two relevant Nordic codes used:
 - **Z02** Dynamic product
 - **Z03** Static product

We suggest renaming the two codes above and add one more, i.e.:

- **Z02** Dynamic FCR-D product
- **Z03** Static FCR-D product
- **Z04** FCR-N product (**New**)

Note that the proposal implies that Business Type **B75**, **A60** and **A61** will also be used for FCR.

Response from Miloš during the meeting:

- This is OK for us. Thank you for the fast response!

The NMEG Market Product Type code list will be updated accordingly, i.e. rename of **Z02** and **Z03**, and addition of **Z04**.

Item closed.

10 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.

10.1 CIM master data documents for NBM based on NBS master data documents

NMEG has, based on requirements from NBM/Fifty/Unicorn, made a set of new CIM based master data documents for Portfolio master data document, Resource master data document and Party master data document. The intention was to make master data documents that can be used by both NBS and NBM.

Ove has as action investigated if there are parts of the NBS master data specifications for “Ediel (NEG) Resource (Production Unit) Master Data Document” and “NEG Party Master Data Document” that are missing in the new memo “NMEG CIM master data documents”. The conclusion was that most of the attributes are there but there are some issues to be discussed and possibly some MRs to be made:

- NEG Party Master Data Document
 - The "businessType" attribute is missing. Can we use the "type" attribute in the MktActivityRecord class instead?

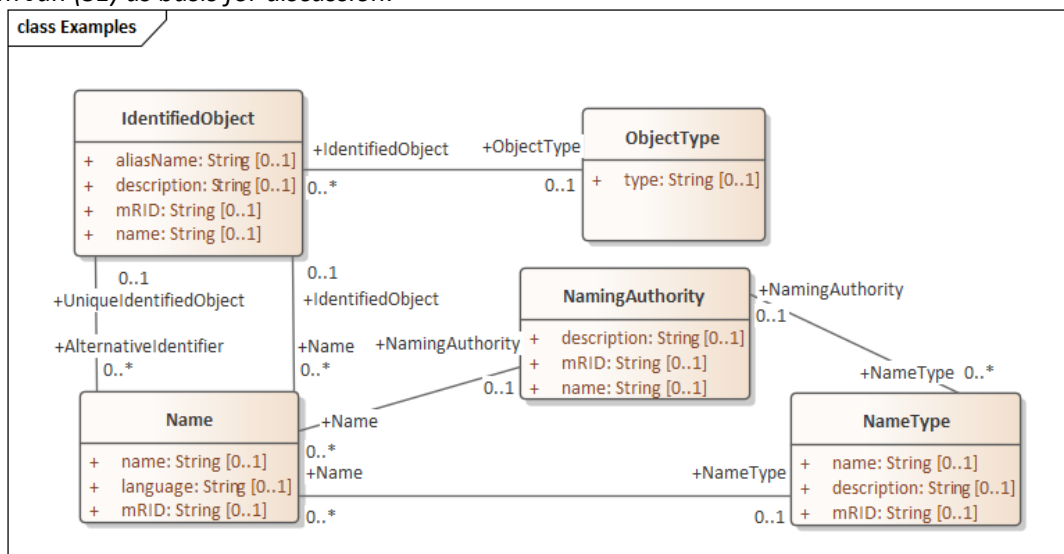
Conclusion:

 - We associate a Series class to the MktActivityRecord class and keep using the BusinessType attribute.
 - Asset Type is missing. This attribute was added in the autumn 2023 and is used for “Energy storage”

Conclusion:

 - We associate a MktPSRType to the Series class and use the psrType attribute.
 - The "reference" (NBS: MEC) is missing. Can we use the "description" attribute?

From Jan (SE) as basis for discussion:



- AlternativeIdentifier.Name.mRID could be used to tell another identifier than the basic mRID and NamingAuthority could tell who is behind the ID. In ESMP we only use, I think, the name attribute from the Name class. I don't say we should use "AlternativeIdentifier.Name.mRID", but it is there in CIM.
- You may also note the "ObjectType" class with its type attribute. However, I don't think we need it since we are using the inherited classes when we exchange messages. E.g. we use AccountingPoint or MarketEvaluationPoint and not UsagePoint and do not need to tell "This UsagePoint is an AccountingPoint".

Conclusion:

- We associate the Series class to itself, named Reference_Series and use the mRID for the MEC.
- The attribute AccountingPoint.mRID is required in ESMP, but the NBS requirement is only the optional settlementMethod. Since one party can have different Accounting Points with different settlement methods, the mRID is kept as required.
- Conclusion:**
 - We add a settlementMethod attribute to the Series class.
- NMEG CIM Resource Master Data Document:
 - Production type (**Z01** Normal / **Z02** Minor) – It must be verified with eSett if the Production Type is needed in the future.
 - Conclusion:**
 - We use ResourceCapacity and the capacityType (Business Type enumeration) attribute.
 - The RelatedArea/TypeOfArea is missing
 - Could be solved by replacing the association name Related_Domain by RelatedMGA_Domain and RelatedBZ_Domain
 - Conclusion:**
 - We add the ObjectType class associated with the IdentifiedObject class in basic CIM and use the "type" attribute to say the type of Domain class.
 - The ObjectAggregation attribute (**A06** Resource object/**Z01** Generator group) is mapped to the attribute isAggregatedRes (Boolean or YesNo) in RegisteredResource
 - The isAggregatedRes attribute is present in the IEC62325/MarketCommon/RegisteredResource class but not in ESMP.
 - Conclusion:**
 - OK.
 - Can the "Capacity: QuantityType" attribute from the ResourceObjectDetails class be mapped to the already existing (in ESMP) "maximumCapacity: Decimal" or "minimumCapacity: Decimal" in the ResourceCapacity class?
 Conclusion:
 - We use defaultCapacity: Decimal in the ResourceCapacity class.

Currently these new master data documents are published at www.ediel.org as a memo only. Should we add them to the "NBS BRS for Master Data" or make a new NMEG master data BRS that covers more than the NBS process?

Next meeting we will discuss making a NMEG Master data BRS.

Action:

- Ove will update the NMEG master data memo according to the conclusions above and ask Bent-Atle and Miloš if this is OK for NBM.
- Ove will add the Party master data document and the Resource master data document as appendixes to the NBS master data BRS.

10.2 New NBS data flow for “delivered reserves” related to the independent aggregator model

Shall we change the Process Type in the two updated master data documents from “**Z07** Master data” to “**A55** Exchange of master data”?

Conclusion:

- Tuomas L had investigated the consequences and found that this change will have impact on 17 data flows, hence for the time being we keep **Z07** in the BRS.

Tuomas L and Teemu H had investigated if more Business type codes are needed in the Activation document and come up with a list of needed Business Types. Thereafter, Ove had update the BRS with the new Business Types. migrated the rest of the MagicDraw (MD) artefacts to Enterprise Architect (EA) and added some comments and questions. Finally, Ove had updated the extended Activation market document xml schemas.

Ove had noted that Chapter “2 Overview of the Nordic energy market domain”, “3 Harmonised roles used in Nordic settlement system” and “4 Process areas within Nordic settlement system” were originally the same in the NBS BRS and the NBS BRS for TSO-MO. However, during the years, we have got several inconsistencies. Hence, Ove asked if we should align the two BRSs, such as remove process areas not relevant for one BRSs and instead make a reference to the other BRS?

Action:

- Ove will clean up the NBS BRS, send it for one week of commenting and publishing it
- Ove will align the NBS BRS and the NBS BRS for TSO-MO, i.e. remove process areas not relevant for the BRS in question and instead make a reference to the other BRS.

11 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.

11.1 Exchange of settlement information between the Nordic TSOs

Background: Svenska kraftnät is using an older ebIX® based xml document towards two TSOs and plan using a newer ebIX® and CIM based document towards a third TSO. The codes used for the two older xml exchanges are ebIX® codes, while the third TSO wants to use ENTSO-E codes.

An alternative is using the EAR (Energy Account Report) document, which among others is used between Energinet and TenneT and expect it to be used for the Viking-link.

References (links): None.

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

Making an NMEG BRS for TSO-TSO settlement, describing common exchanges of settlement information between the Nordic TSOs, instead of having bilateral agreements.

Since eSett is using the ENTSO-E ESP Energy Account Report message (EAR), a namespaced version of EAR version 1.2, it would be relevant to get input from eSett regarding their possible updates and change to CIM.

Since we will do updates due to changes from 60 minutes to 15 minutes resolution, why not also do something about the exchange of e.g. MSCONS messages to something more modern”.

Jan (SE) informed on February 22nd that it was a consensus at the Nordic meeting that we should follow the standard for CIM XML, i.e. we should have 2 reports for the settlement:

- 1) Financial settlement report (FSKAR).
- 2) ERRP Reserve allocation result document.

Hence, Ove published the BRS on February 22nd.

Continued action:

- Jan (SE) will try finding some documentation at Svenska kraftnät that can be used as basis for a more detailed description in the first chapters of the BRS for TSO-TSO settlement.
- Thereafter Ove will update the first chapters in BRS for TSO-TSO settlement

11.2 Update of BRS for Nordic trading system with updated processes and documents for FCR (Reserve) Bid Document

The review of updates in BRS for Nordic trading system continued. However, due to lack of time, only a few comments were resolved.

The review will continue coming meetings.

11.3 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.

Nothing new reported, hence postponed.

11.4 Update of NMEG code list

Ove had as homework after previous NMEG meeting asked Stein Ole if the Business Type code “**Z76** Day ahead prices used for CZC forecast calculation” still is relevant. However, Stein-Ole informed that he no longer knows

the relevance of the z code. According to the “[BSP - Implementation Guide for Nordic MMS - mFRR capacity market](#)”, reserved CZC is exchanged from Nordic MMS to the TSOs and RSC (NOIS), see figure 2 on page 8.

Søren informed at the pervious NMEG meeting that has asked internally in RCC if the code is used, hence we will decide at this meeting if the code shall be deprecated or kept.

If kept, can we find a better description of the Business type 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.)

Conclusion from previous NMEG meeting:

- We await an answer from Søren if Nordic RCC needs the code.

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

The item was postponed.

12 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>20220907:</p> <ul style="list-style-type: none"> • Forwarded by Ove to Jon-Egil for submission to CIM WG <p>20221006:</p> <ul style="list-style-type: none"> • Ongoing <p>20221031:</p> <ul style="list-style-type: none"> • 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 <p>20230124:</p> <ul style="list-style-type: none"> • Not agreed – Jon-Egil, Jan (SE) and Alvaro will draft a new proposal. • To be continued <p>20230222:</p> <ul style="list-style-type: none"> • Ongoing <p>20230411, 20230830, 20231101, 20231205, 20240110, 20240205 and 20240227:</p> <ul style="list-style-type: none"> • Ongoing

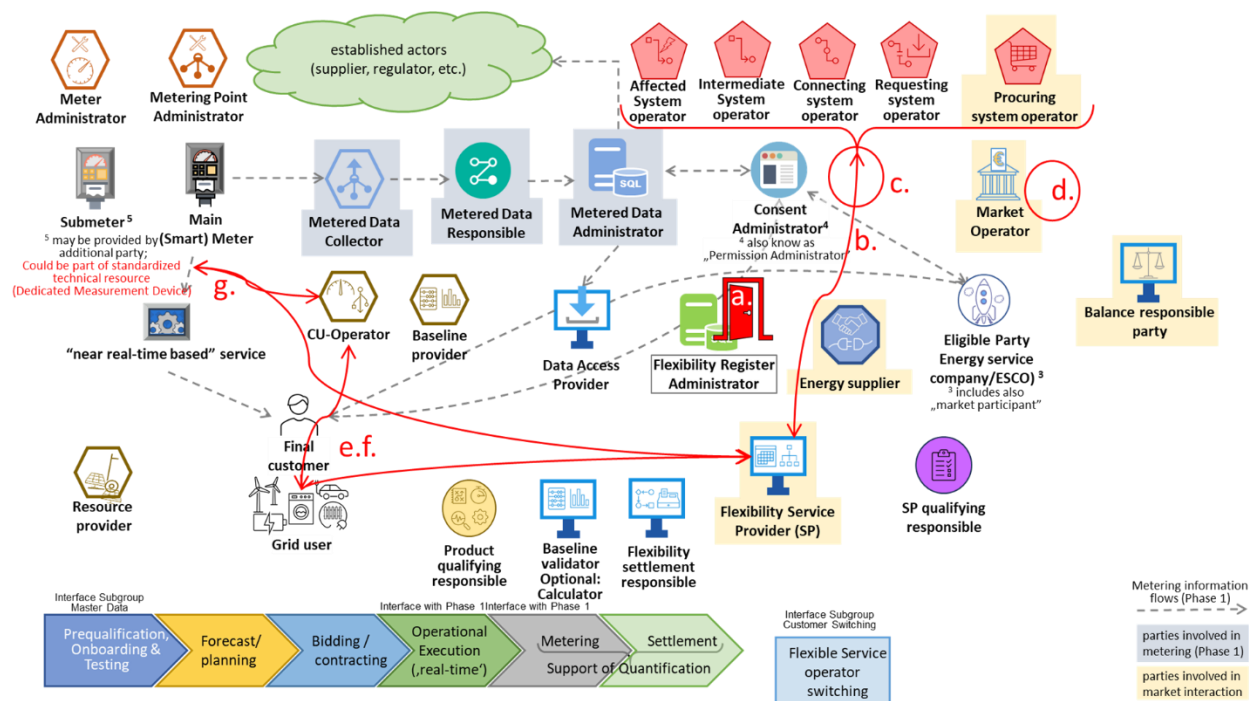
MR #		Status
NMEG 2023/210 (CIM WG)	Extended FinancialSettlementReport (FSKAR) (addition of a Price class).	<p>20231101:</p> <ul style="list-style-type: none"> Rejected: Since the FSKAR was made for central Europe. Action: Jon-Egil will discuss with Alvaro and FSKAR colleagues from central Europe to see if they see a problem in the extension. <p>20240110, 20240205 and 20240227:</p> <ul style="list-style-type: none"> Ongoing
NMEG 2024 212	Add Related_MarketParticipant to Activation Market Document	<p>20240205 and 20240227:</p> <ul style="list-style-type: none"> Ongoing.

13 Discussion item: Datahub group/team within development of CIM, DSO Entity/ENTSO-E and JWG

From Mario January 25th:

Under 24.2 from NMEG meeting January 9th and 10th, we touched (among all sorts of things) the proposal (by Jan, DK) to have data hub group/team within development of CIM. If CIM development continues with datahubs being only bystanders, we are concerned it will not meet our needs.

Jan (SE) presented the following artefact from the DR subgroup of JWG/TF2:



And the list of what a-g mean:

- a. Operators of common front-doors interacting with service providers.
- b. Systems operators interacting with service providers.
- c. Systems operators interacting with other systems operators for all new functionality introduced by the new rules. If there are working and existing interfaces for systems operators data exchange, they shall be exempted from the obligation to provide a standardised interface.

- d. Local market operators interacting with other local market operators for all new functionality introduced by the new rules.
- e. Service providers communicating with CUs in addition to optional proprietary interfaces.
- f. Standardised CUs communicating with service providers and with CU Operators.
- g. DMDs communicating with CU Operators and with service providers.

Conclusion:

- We will have a report from JWG, with a special focus on datahub topics, as a fixed item on future agendas.

Item closed.

14 Discussion item: Questions related to ENTSO-E, DSO Entity and JWG

This is an information item.

From Mario January 31st (with response from Ove):

I have some questions related to ENTSO-E TF groups we discuss on our meeting in Stockholm and we put some names in some of them. Well, I got email from certain Ferdinando Dominquez from ENTSO-E (DSO Entity). I am sure some of you got it as well. After some introduction it became clear that there are some things to clarify before we proceed.

1. First and foremost, only DSO and ENTSO-E entities are mentioned in document he sent me (attached) and it seems he has very little knowledge of what DataHubs are, what is our role and mandate, etc...

[Ove: *ENTSO-E is the EU mandated body for the TSOs (all European TSOs are members), while the DSO Entity is the mandated EU body for the DSOs. It is a pretty new organisation, i.e. established a few years ago. We believe we have a few Norwegian DSOs as members. The Joint Work Group (JWG) will work with tasks (projects) of common interest, such as data exchange standardisation. Ferdinando is from the DSO side.]*

2. In addition, he mentioned a valid point: " it is my understanding that this Implementing Regulations will not apply to Norway which means it could be that they are not that interesting for you."

[Ove: *I think it would be strange if this Implementing Regulations IR doesn't apply for Norway through the EEA (EØS) agreement. However, if not, Norway have always tried to harmonise with the other Nordic and European countries, hence I guess we will try following it anyway.]*

3. And one more: " I am not sure what material ENTSO-E circulated to facilitate the application of experts for the JWG (I work in the DSO Entity) and, as such, I am not sure whether you are familiar with the content of the Implementing Regulation 2023/1162 and the structure of the Joint Working Group."

[Ove: *We have worked with the IR 2023/1162 in eBIX® and ENTSO-E. I attach it for information.]*

And he is right there. What documents did we all go through for JWG, who is familiar with Regulation 2023/1162 (I am not for sure), etc...

So... What is going on here? What would Data Hub members possibly contribute in those TF groups, do we need RME as regulator in there and, generally, I see a lot of misunderstanding here and questions on both sides.

[Ove: *Well, at least the IRs will be relevant for the datahubs. The 2023/1162 concerns exchange of metered data to the end users (Customers) and third parties (Eligible Party), but there are two others that will be available maybe by the end of this year; one for Change of Supplier and one for Distributed flexibility – these will influence the datahubs in the future.]*

Item closed.

15 Discussion item: How and why are Change of Supplier attributes used in each Nordic country?

From Jan (DK):

In the NTC group we are mapping all the attributed for Denmark, Norway and Finland, but it is hard for me to follow the process behind the attributes. So my suggestion is that we take time when we have physical meetings to go through a process example change of supplier, and draw it up, so we can see how the attributes are used and why in each country. Thereby getting a better understanding, of where we are different, so that we can build a solid Nordic CIM model in the NTC group.

Teemu K explained how the Finnish change of supplier process works:

- In Finland the generic document “Report new sales agreement (DH-311-1)” is used instead of a specialised “Request change of supplier”, as used in Denmark and Norway.
- When the datahub receives the DH-311-1 document, the datahub will process the document to see if it represents a change of supplier or a customer move.
- If the datahub finds that it is a change of supplier process (and not a Customer move), the datahub will check if there are any bindings in the existing contract that stops the change of supplier.

Thereafter Teemu H presented a test tool where he can simulate the datahub in a process where the Grid Access Provider (GAP) creates a new sub Accounting Point (AP) and in parallel the Customer creates a new Grid usage contract, and finally the update in the datahub and information (confirmation) back to GAP and Customer. The test tool can handle the message exchange seen from the Gap, ESCO and Energy Supplier point of view.

Item closed.

16 How to handle rejected code requests from MR NMEG 2023/208

Continued action:

- Jan (SE) will investigate how to handle rejected code requests from MR NMEG 2023/208 (CIM WG):
Commercial operational load: **Rejected:** not an asset.
Private heat pumps: **Rejected:** However, we got three new codes that may be used instead:
 “**B56** Heat pump specified (which will be corrected to **unspecified**)”,
 “**B57** Heat pump electrical” and
 “**B58** Heat pump absorption”.
Commercial load (industry): **Rejected:** not an asset.

From Jan (SE):

Work will be started to draw up national terms around flex and somewhere in this work these questions fit in. In the work to be started, see next issue, these questions will be handled.

Item closed (if questions etc., Jan (SE) will reopen the item).

17 Status for Swedish Flexibility project

Background: Sweden has two ongoing “Flexibility projects” that now want to use CIM based messages for the exchanges to/from the flexibility platforms. Among others one called Stockholm flex where Vattenfall is candidate for making CIM documents for the project(s). To keep document exchanges as harmonised as possible in the Nordic countries, NMEG has offered them NMEGs help in making the needed CIM based xml schemas.

References (links): None.

What to decide,

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

From Jan (SE):

Work will be started in Sweden to draw up national terms around flex.

Item closed (if questions etc., Jan (SE) will reopen the item).

18 Message for control of load in a Metering Point

Background: This is a “to remember item” from Fingrid/the Finnish datahub.

References (links):

What to decide,

discuss or inform: Status for the project.

Teemu K informed that they are looking for a message to start/stop assets at a Customer’s site, such as a boiler or sauna. This could for instance be sent from an ESCO via the datahub to the Customer’s site.

Jon-Egil suggested using the Activation Market Document. However, the Activation Market Document has a Registered Resource as the object to activate, while the Finnish requirement specifies an Accounting Point. Hence, we would need to add an Accounting Point (or Market Evaluation Point) and making some of the other attributes in the Time Series class optional, such as the acquiring_Domain and connecting_Domain.

To be continued.

19 Status for a common European Area project

Background: ebIX® has proposed a project plan for a common European Area project. ebIX®, ENTSO-E (CIM WG) and ENTSG has confirmed participation, and the new EU DSO Entity is trying to find member(s).

References (links):

What to decide,

discuss or inform: Status for the project.

Still awaiting a decision in JWG.

20 XML schemas

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

When we start a project together with NBM (Nordic Balancing Model), everyone are asked to find what versions of xml-schemas are used to day in different projects and come

up with proposals for new schemas and/or sets of schemas that should be published at www.ediel.org.

References (links):

What to decide,

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

Ongoing task:

- All are asked to find what versions of xml-schemas are used to day in different projects and come up with proposals for new schemas and/or sets of schemas that should be added to Appendix B and be published at www.ediel.org.
- Ove will update the table based on NBM documentation received from Bent Atle (NBM/Fifty), when the NMEG BRs are updated with NBM documents.

21 Ediel.org Mysql issue

Background: www.ediel.org was down for some hours in July 2023 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 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.

References (links):

What to decide,

discuss or inform: Status for moving Mysql to www.ediel.org.

Continued action:

- Teemu will see if he can setup a new Mysql directly under the Ediel.org domain and move the tables/data from the old DB over.

22 Addition of an “archive folder” at Ediel.org

Continued action:

- Teemu will try making an “archive folder” where older documents are stored, i.e. every time a new document version is uploaded to the document folder, the old version is move to the archive folder.

23 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), Teemu 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.

23.1 CIM for NBS

The item was postponed.

23.2 CIM for Elhub

Status NTC project looking into mapping of the “Elhub Information Model” (EIM) to CIM, as well as harmonisation with what has been done related to the Danish DataHub. It is suggested to start with mapping of EIM to CIM.

This is an ongoing NTC project.

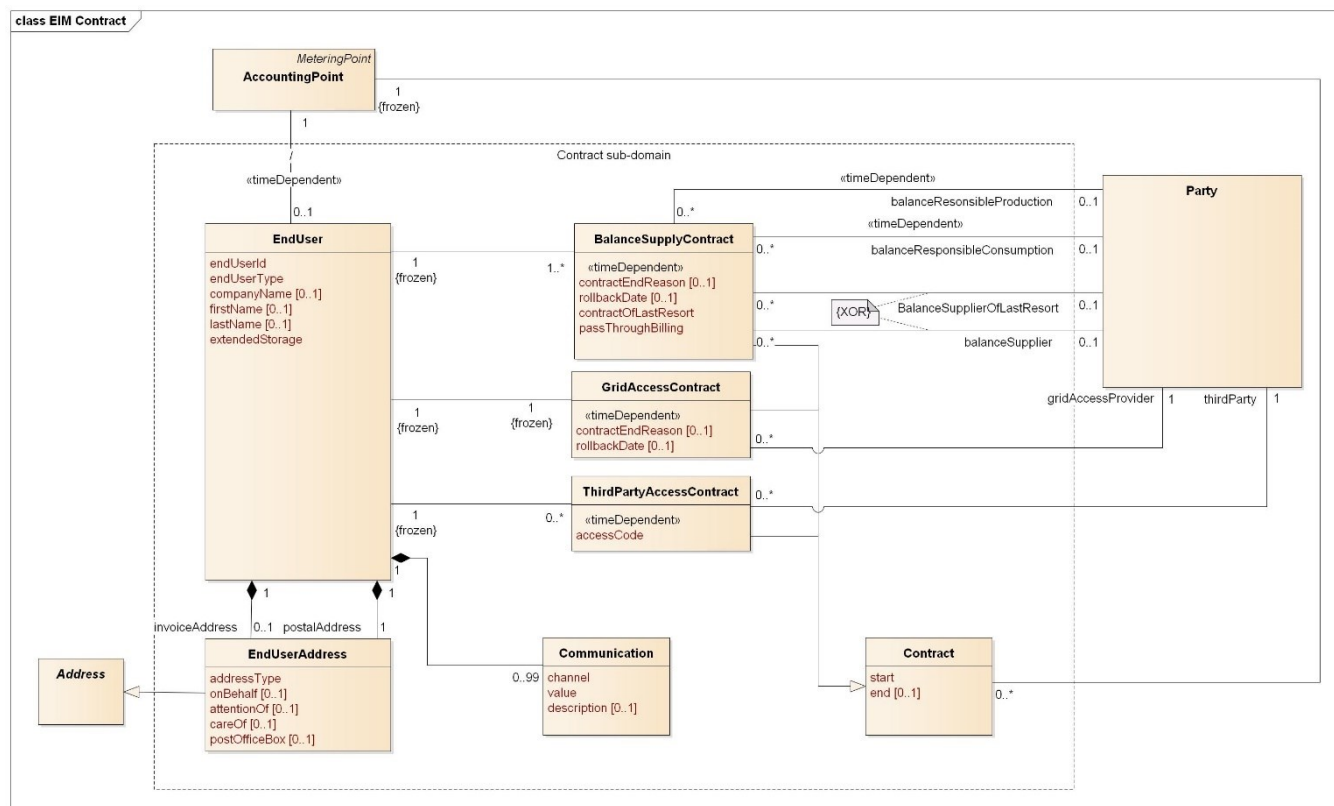
item closed.

23.3 Question related to Request change of supplier from NTC

What is the most logical modelling principle. I.e. associating the Market Agreement with the AccountingPoint class or the MktActivityRecord class?

Conclusion:

- At least for the Request change of Supplier message the Market Agreement should be associated with the Accounting Point and not the MktActivityRecord



23.4 Report from NTC meeting February 14th

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

The main topic for the meeting was review of the questions and comments from Ove related to the mapping of the CIM Market Document (header), the Finnish “DH-311-1 New agreement information” document and the Norwegian “BRS-NO-101: Start of energy supply (Request change of supplier)” document.

From discussion:

- Some relevant links from Mario:
 - Elhub header specification: <https://dok.elhub.no/elhubstandard/general>
 - Elhub roles and domains: <https://dok.elhub.no/elhubstandard/general>
 - Elhub VAT Code: <https://dok.elhub.no/elhubstandard/vat-code>, i.e.:
 - S** Standard (Normal rate according to The Norwegian Tax Administration)
 - E** Exempt (0 %)

```

<xsd:complexType name="Elhub_TaxationProfileMeteringPointType">
<xsd:sequence>
<xsd:element name="VATCode" type="bdt:VATCode" minOccurs="0" maxOccurs="1"/>
<xsd:element name="EnovaFeeType" type="bdt:EnovaFeeType" minOccurs="0" maxOccurs="1"/>
<xsd:element name="EnovaFee" type="bdt:decimal52" minOccurs="0" maxOccurs="1"/>
<xsd:element name="ElFee" type="bdt:decimal52" minOccurs="0" maxOccurs="1"/>
<xsd:element name="ElCertificateShare" type="bdt:decimal52" minOccurs="0" maxOccurs="1"/>
<xsd:element name="ConsumptionCode" type="bdt:String10Type" minOccurs="0" maxOccurs="1"/>
<xsd:element name="NACE_DivisionCode" type="bdt:String10Type" minOccurs="0" maxOccurs="1"/>
</xsd:sequence>
</xsd:complexType>

```
 - Elhub NACE Division Codes (Næringskode): <https://dok.elhub.no/elhubstandard/nace-division-codes-naeringskode>
 - Norwegian Tax Authorities: Tax on electricity (Avgift på elektrisk kraft): <https://www.skatteetaten.no/bedrift-og-organisasjon/avgifter/saravgifter/om/elektrisk-kraft/>
 - Elhub Charge on electric power share (Avgift på elektrisk kraft andel): <https://dok.elhub.no/elhubstandard/eim-maalepunkt>
- Some relevant links from Jan (SE):
 - MR to IEC/WG16 for addition of VATLevel attribute to ChargeType: <https://redmine.ucaiug.org/issues/6669>
 - MR to IEC/WG16 for addition of VATObliged attribute to ChargeType: <https://redmine.ucaiug.org/issues/6668>
- At the end of the meeting, it was started on a discussion related to mapping of tax and VAT information. Related to this discussion, Jan (SE) suggested introducing a general "tax class" including type telling if it as "VAT" or some other tax.

Conclusion:

- We will ask NMEG what the most logical modelling principles is: I.e. associating the Market Agreement with the AccountingPoint class or the MktActivityRecord class?

Action:

- Teemu K will investigate the need for “Sender’s routing data”, “Message number”, “Total number of messages” and “Registration time” in the CIM Market Document (header).

- Mario and Teemu K will investigate the need for “(Energy) Business Process Role” in the CIM Market Document (header).
- Ove will update the EA model and mapping memo as agreed during the meeting.

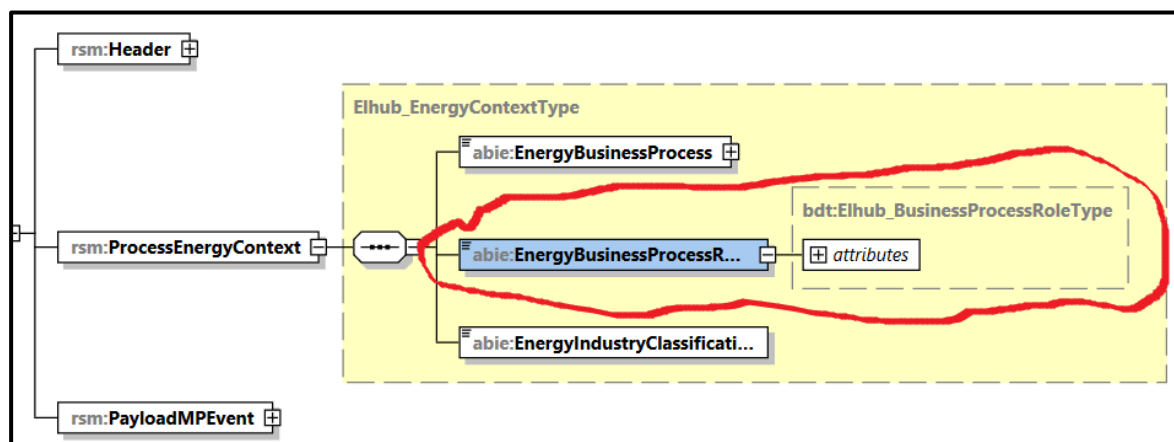
23.5 Report from NTC meeting February 19th

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

The main topic for the meeting was continued review of the Finnish “DH-311-1 New agreement information” document and the Norwegian “BRS-NO-101: Start of energy supply (Request change of supplier)” document.

From discussion:

- Mario has as homework from previous meeting investigated the need for the “(Energy) Business Process Role” in the CIM Market Document (header) at Elhub:
 - I checked internally in Elhub, and the answer is: yes, we do need this attribute, since GLN can have various roles (and thus various rights in Elhub) and we need this to determinate it when receiving message. So, regardless of having identified a sender, we need this attribute to pinpoint as which role he is acting in certain message.



- Finland and Norway use the ebIX® principle of sending a “Business Process Role” in the header, while Denmark uses the ENTSO-E principle where there is a role linked to all parties in the header, such as to the Sender party and the Recipient party. This will be added to a “Issues to be further discussed” chapter in the mapping document.
- One main topic discussed was if we should introduce a general "tax class", as suggested by Jan (SE) at the previous meeting:
 - It was noted that there already is a MR (ebIX 2022-035-v1) suggesting adding a VATLevel attribute to ChargeType.
 - Jan (SE) will propose changing the VATLevel attribute to ChargeLevel – then it may also be used for tax level.
 - Mario informed that Elhub has five related attributes in the [AccountingPoint characteristics document](#): VAT Code, Enova fee type, Enova fee share, El fee share, El certificate share
 - The conclusion from the discussion was adding the ChargeGroup and ChargeType and associate the ChargeGroup with the Accounting Point

- Another main topic was how to add contact persons, such as Trustee, Responsible for agreements, Responsible for invoicing, Responsible for connections, Fault communication etc.
 - The conclusion was to add the MarketPerson class from the Market/MarketOperations/ReferenceData package and use the category attribute for the contact type. The MarketPerson class will be associated from the Contact_Marketparticipant class.
 - We will also use the firstName and lastName from this class. However, email, telephone and “Other name” will be mapped to attributes in Contact_Marketparticipant

Action:

- Ove will make draft mapping of the charge and contact person information.

24 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.

24.1 Prepare Nordic positions before coming CIM WG meetings

None.

25 Information (if any)

None.

26 Next meetings

NMEG:

- Monday April 8th, 09:00 – 12:00, GoToMeeting
- Monday April 29th, 09:00 – 12:00, GoToMeeting
- Tuesday May 28th and Wednesday May 29th in Energinet’s offices in Erritsø
- Wednesday June 19th, 10:00 – 14:00, GoToMeeting
- Tuesday August 27th and Wednesday August 28th in Statnett’s offices Oslo

NMEG CIM XML subgroup:

- Friday March 8th, 10:00 – 12:00.
- Friday March 15th, 10:00 – 12:00.

27 AOB

27.1 Nordic TC 57 half-year meeting March 21st, 09:00 – 11:00

Mario and Ove presented a PowerPoint presentation giving a status for the CIM harmonisation between the Nordic datahubs. The presentation will be present at the Nordic TC 57 half-year meeting March 21st.

During the presentation, the slides were improved, and a slide was added related to the Fingrid datahub.

27.2 Swedish comments to 57/2625/CDV

Jan presented Swedish comments to 57/2625/CDV, which must be submitted later on Friday March 1st. Jon-Egil and Ove will make Norwegian comments and submit these within the time limit.

Appendix A Overview of Nordic memberships in international standardisation bodies

Name	Member of
Anne Stine	NMEG
Christian	NMEG
Fedder	NMEG, CIM WG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO
Jan (DK)	NMEG, IEC/WG16, TF2, DSS/557
Jan (SE)	NMEG, IEC/WG16+14, ESMP, TFD, TK57, TF3
Jon-Egil	NMEG, CIM WG, IEC/WG16, ESMP, CCC, CIO/LIO, NEK, TPC, TFD, TF3
Mario (NO)	NMEG, NK57, TF2
Martin (SE)	CCC
Oscar	CIO/LIO, CIM WG, TK57
Ove	NMEG, IEC/WG16, TC57
Svein (NO)	IEC/WG14+13, CGMES
Teemu H (FI)	NMEG, CIM WG, EBG, ETC, CIO/LIO
Teemu K (FI)	NMEG

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
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)
NEK	Norsk Elektroteknisk Komite
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)
TFD	ENTSO-E Task Force Data Interoperability and Access,
TK57	Teknisk Kommitté 57
TPC	Transparency Platform Coordinators (subgroup under MIT)

Appendix B Overview of the usage of xml-schemas in the Nordic countries

#	XML schema	BRS	Version used by					
			NBS	NMA	Energinet	Fingrid	Statnett	Svk
1.	NEG ECAN publication document	NBS BRS for TSO/MO	1.0					1.0, 7.0
2.	NEG ERRP Reserve Allocation Result Document	a) NBS BRS for TSO/MO b) BRS for Trade	1.0					1.0
3.	NEG Area Specification Document	a) NBS BRS for Master Data b) BRS for Trade	1.0 ¹	2.0 (CIM)				
4.	NEG Bilateral Trade Structure Document	NBS BRS for Master Data	1.0					
5.	NEG Party Master Data Document	NBS BRS for Master Data	1.0					
6.	NEG Resource Object Master Data Document	NBS BRS for Master Data	1.1					
7.	ENTSO-E Acknowledgement Document	NEG Common XML rules and ...	6.0					7.0 (not complete)
8.	ENTSO-E ERRP Planned Resource Schedule Document	NBS BRS for TSO/MO	5.0					
9.	NEG ERRP Planned Resource Schedule Document	BRS for Schedules						
10.	ENTSO-E ERRP Resource Schedule Confirmation Report	BRS for Schedules	No NEG version					
11.	ENTSO-E ESS Anomaly Report	BRS for Schedules	No NEG version					
12.	ENTSO-E Outage document	BRS for Schedules	No NEG version					
13.	NEG ESP Energy Account Report Document	NBS BRS	1.0					
14.	ENTSO-E ESS Confirmation Report	NBS BRS	4.1					5.0
15.	ENTSO-E ESS Schedule Document	a) NBS BRS b) NBS BRS for TSO/MO	4.1					5.0
16.	ebIX® Aggregated Data per MGA for Settlement for Settlement Responsible	NBS BRS	2013pA					
17.	ebIX® Aggregated Data per Neighbouring Grid for Settlement for Settlement Responsible	NBS BRS	2013pA					
18.	ebIX® NEG Confirmation of Aggregated Data per Neighbouring Grid for ISR	NBS BRS	2013pA					
19.	ebIX® Validated Data for Settlement for Aggregator	NBS BRS	2013pA					
20.	NEG ECAN Allocation Result Document	BRS for Trade						
21.	NEG Currency Exchange Rate Document	BRS for Trade						
22.	NEG Auction Specification	BRS for Trade						
23.	NEG Spot Market Bid Document	BRS for Trade						
24.	ENTSO-E ERRP Reserve Bid Document	BRS for Trade						1.0

¹ The NBS version 1.0 is using dateTimeType for Validity Start/End (error correction), while the MO version 1.0 is using dateType. dateTimeType will be used from version 2.0.

25.	ENTSO-E ERRP Activation Document	BRS for Operate							5.0 (not complete)
26.	Capacity Market Document	???							7.1, 8.0