

Minutes: NMEG meeting Date: Monday May 6 th , 2024 Time: 10:00 – 13:00 Place: GoToMeeting	<div>NMEG</div> <div>Nordic Market Expert Group</div>
May 7 th , 2024	

Present:

Bent Atle, NBM/Svenska kraftnät
 Christian, Energinet
 Jan (DK), Energinet
 Jan (SE), Svenska kraftnät
 Jon-Egil, Statnett (convenor)
 Ove, Edisys (secretary)
 Søren, Nordic RCC
 Teemu H, Fingrid
 Teemu K, Finish datahub

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:



Adressing in services.pptx , see item 11.4, NMEG CIM master data documents



Status for a common Nordic CIM , see item 18.4, Report from NTC meeting April 25th

1 Approval of agenda

The agenda was approved.

2 Approval of previous meeting minutes

The previous meeting minutes were approved.

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.

Jan (SE) and Ove participated at a face-to-face ebIX® handover to DSO Entity meeting in Essen April 29th and 30th. It was 12 participants (+ one remote) at the meeting, mostly coming from JWG/TF3. The main topic for the meeting was transfer of knowledge from ebIX®, such as making of BRSS, walkthrough ebIX® and CIM models, MRs to CIM, how to deal with the ebIX® code list and the Harmonised Electricity Market Role Model.

Related to the ebIX® code list it was agreed that the DSO Entity will publish the ebIX code list but not actively maintain it in the near future.

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 there is an ongoing discussion within NIT related to what to do with the software. For the time being the software is seen as a backup solution.

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

This is an ongoing task mainly handled by Jon-Egil. The item will be moved to the “Status from NEX” item on the agenda.

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.

This is an ongoing task mainly handled by Jon-Egil. The item will be moved to the “Status from NEX” item on the agenda.

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.

NEX is mainly working with the "Establish a secure Nordic Communication platform" and "Establish new ECP requirements", see item 6.

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

Søren informed that Nordic RCC is working with a new platform within the confidential zone to be used by the Nordic TSOs.

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 Alignment of NMEG BRSs NBM BRSs/IGs

Continued action:

- Ove will continue the walkthrough of the NBM BRSs and IGs and make a roadmap for alignment of the NBM BRSs/IGs and the NMEG BRSs. Questions will be dealt with in NMEG before update

The item was postponed.

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 Update of NBS BRS and NBS BRS for TSO-MO

At the NMEG meeting April 8th, it was questioned why the Business Type “A69 Market coupling results” not should be added to the NBS BRS for TSO-MO, but only to the urn-ediel-org-neg-ecan-publicationdocument-1-0-restricted-codes.xsd.

Tuomas P has informed that he agrees to add the Business Type “A69 Market coupling results” to the Publication Market Document. However, the Publication Market Document is documented in the BRS for TSO-MO while the Business Type “A69 Market coupling results” will be used towards the market participants, hence this should be documented in the NBS BRS, but then it would simply be a duplicate – and then we should do it also for the ENTSO-E ERRP Planned resource schedule.

In practice eSett provide to BRPs, BSPs and DSOs all their own data that we are allowed to, and it includes the data that we have received initially from TSOs or NEMOs. One option could then be to combine NBS BRS and NBS BRS for TSO-MO into a single BRS document. Or we could rename the NBS BRS for TSO-MO to something like “NBS BRS for TSO-MO and information exchange to the market participants”.

A discussion was postponed until next physical meeting in Erritsø, May 28th and 29th.

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:** 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.

Jan (SE) and Jon-Egil had as homework discussed rules for how to combine acquiring_Domain, connecting_Domain and flowDirection in the ERRP Reserve Allocation Result document in the BRS for TSO-TSO settlement.

From Jan (SE):

The TSO that has sold the ASP to the other will report. I.e. the time series is "Sold ASP", not just "Agreed Supportive Power". Hence, in tables like the one below that are supposed to describe what is sent, it is appropriate saying "Sold ASP". The following example, now for the exchange between Fingrid and Svenska kraftnät, would indicate up-regulation and down-regulation for the Finnish area (two lines) and then for the Swedish area (two lines). The difference from before is that the TSO that wants down-regulation also sells to the other TSO. On the other hand, the TSO that wants upregulation buys the upregulation from the other TSO, which then sells – and reports. Is this correct?

Time series	Sender	Receiver	Business type	Flow Direction	acquiring_Domain.mRID	connecting_Domain.mRID	With amount (A)
Sold Agreed Supportive Power	Svk	Fingrid	Z92	Up	10YFI-1-----U	10Y1001A1001A46L	A
	Fingrid	Svk	Z92	Down	10YFI-1-----U	10Y1001A1001A44P	A
Sold Agreed Supportive Power	Fingrid	Svk	Z92	Up	10Y1001A1001A44P	10YFI-1-----U	A
	Svk	Fingrid	Z92	Down	10Y1001A1001A44P	10YFI-1-----U	A

Jan (SE) informed that the TSO-TSO settlement project has agreed to move Agreed Supportive Power (Business type: **Z92**, Agreed Supportive Power (ASP)) from the ERRP Reserve Allocation Result Document to the Financial Settlement Report Document (FSKAR). He also informed that the Price class is not needed in the FSKAR document after all. These two changes should also be applied in our NMEG BRS.

Jan also suggested that we still can discuss if flowDirection would be relevant to put into FSKAR document and then perhaps the ERRP Reserve Allocation Result Document may not be needed.

Conclusion

- We will update the BRS according to the information from Jan (SE), i.e. use the standard FSKAR document without extensions and move the ASP report to the FSKAR document.
- We will remove the extended FSKAR doc from ediel.org.
- We will discuss at the next meeting if we can use the FSKAR document also for FCR and ramping (and remove the ERRP Reserve Allocation Result Document from the BRS).

Ove had as action made a first draft of a more detailed description chapter “2.4 Process Areas within the Nordic TSO-TSO settlement process” in the BRS for TSO-TSO settlement based on input from Jan (SE). The new text and artefacts were reviewed, slightly updated and agreed.

Søren noted that the description of Asset Type **B21** should be corrected (“... Alternative Current”-> “... Alternating Current”).

Action:

- Ove will update the BRS, send it on circulation for comments to NMEG for one week and thereafter publish it.
- Ove will remove the extended FSKAR document from ediel.org.
- Jan (SE) will send an email to Bhagyashree asking her to correct the definition of Asset type **B21** ("... Alternative Current"-> "... Alternating Current").
- Jon-Egil and Jan (SE) will verify with the Swedish and Norwegian TSO-TSO settlement projects if we should extend the FSKAR document with a flow direction, so that we can use the FSKAR document also for FCR and ramping.

11.2 Nordic determine transfer capacity BRS vs ENTSO-E implementation guides

At our NMEG meeting in Denmark end of May, we will do a review of the [BRS for Determine transfer capacity](#):

How are ENTSO-E documents like:

- [Coordinated Capacity Calculation IG \(entsoe.eu\)](#)
- [Draft IEC 62325: \(entsoe.eu\)](#)
- [CRAC document UML model and schema \(entsoe.eu\)](#)

related to the Nordic determine transfer capacity BRS?

And is it (always) the Nordic BRS that we are using/should use/will use?

Postponed until next physical meeting.

Ove had as action drafted a proposal for some text in the beginning of our BRSs:

1.3 About Nordic Ediel BRSs

The NMEG Ediel Business Requirement Specifications (BRSs) describes business processes where data is exchanged between market participants in the Nordic energy market based on the UN/CEFACT Modelling Methodology (UMM). A BRS is a tool that helps the participants in the Nordic energy market to implement effective and harmonised data-exchange processes. The Ediel BRSs can be seen as a framework designed to improve communication between stakeholders, reduce development time, and minimise errors.

The Nordic Ediel BRSs covers all aspects of a business requirement specification for a specific data-exchange process and purpose, including functional requirements, non-functional requirements (partly), UseCases, and data flows.

NMEG Ediel BRSs will as far as possible be based on already available standards and best practices, such as:

- 1) ENTSO-E Implementation Guides (IGs) based on IEC 62325-451-n standards
- 2) ENTSO-E Implementation Guides (IGs) based on IEC 62325-351 standard
- 3) Other Implementation Guides (IGs) based on IEC 62325-351 standard
- 4) EU Implementation Regulations
- 5) Documents from the DSO Entity and the ENTSO-E and DSO Entity Joint Working Group (JWG)
- 6) Nordic BRSs, IGs, regulations etc.

In addition, the NMEG Ediel BRS will document Nordic extensions and/or restrictions compared with the standards and best practices the BRS is based on.

The proposal was reviewed and slightly updated.

Action:

- Ove will add the text to the TSO-TSO settlement BRS
- Next physical meeting we will decide if we update all NMEG BRSs.

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

Postponed until next physical meeting.

11.4 *NMEG CIM master data documents*

Shall we make a NMEG Master data BRS that covers the need from both NBM and NBS?

Conclusion:

- We intend making a common BRS – to be discussed next meeting.
- Bent Atle and Ove will follow up on NBS/Unicorn to see if NBM can use the latest master data version.

Jan (SE) informed that Svenska kraftnät is working on a new system for master data. This includes “objects” metering points, parties and time series.

Jan (SE) has as action to investigate within WG16 if they have a good place for “ECP endpoint”, “EDX service” and “Allowed email domains: string”:

In order to do that he wants to know more about the use case. Is not relevant to WG16 to talk about “ECP” or “EDX”, it should rather be general ways of telling: “How can you communicate electronically with a party?” Or rather with his systems. But.

Such a possible class in CIM would in general have to be repeated (you may use ECP/EDX, AS2, SMTP, SFTP...). But it should also be related to the process or similar: “For this kind of exchange you may use SMTP or ECP/EDX”, “For this kind of exchange you may just use ECP/EDX” etcetera.

However, before looking into this, the question is again: what are the use cases behind this? Is it that TSO A would like to inform eSett or TSO B (or vice versa) that “With party A you can, for this kind of information, communicate using protocol this and that with these settings.”

And what about the need for “Allowed email domains: string”, would that tell: “Allowed email domains for Statnett are only @statnett.no”, “Allowed email domains for Company B are @companyB.no, @companyB.com, @companyB.energy, @oldcompanyname.no”. And what is the information to be used for? Is it only used when communication protocol is SMTP? But why not then tell “SMTP” with a code for an attribute in a repeatable class?

Response from Fedder:

Acknowledging that I'm looking at this from a distance, I fail to appreciate the need to add "technological bindings" for transport protocols to the CIM. Within ENTSO-E we have agreed to use EIC codes for MADES Endpoints (in order not to tie this to a specific implementation) as well as EDX services. See attached presentation from the CIM WG meeting in Ljubljana 20190312. To that extend it should be sufficient to use those that in the "receiver_MarketParticipant.mRID" of the MarketDocument class.

Ove informed that the action originates from a requirement related to party master data from NBM:

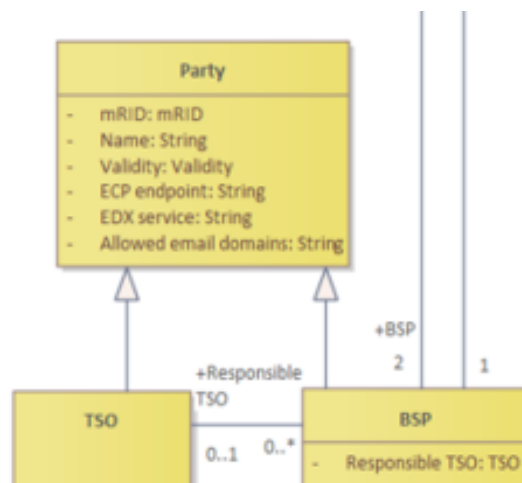
See also action under item 18.4.

Conclusion:

- NTC will follow the IEC process/discussion of making a new ContactPoint class and eventually make a MR for this.

Action:

- Bent Atle and Ove will follow up on NBM/Unicorn (Miloš) to see if NBM can use the updated master data documents made for NBS.



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

At our meeting in January, the Business Types **A10** and **A12** were changed to **A95** and **A96** in the ERRP Planned Resource Schedule Document in the BRS for Nordic Scheduling and Ancillary Services Processes. Further, at our previous meeting Henrik informed that he has asked internally and that he is waiting for the response.

Continued action:

- Henrik will investigate if we can replace the Business types **A10** and **A12** to **A95** and **A96** also for Denmark.
- Thereafter Ove will publish it after circulation for comments to NMEG for one week.

The item was postponed.

11.6 Update of NMEG code list

11.6.1 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:

- Søren will investigate if Nordic RCC needs the code.

11.6.2 Deprecated Document Type codes, however used by NBM

At the NMEG meeting August 26th, 2021, it was proposed having the Document (Message) type codes:

Z37		Bids that can support a “Full Activation Time” (FAT) that is faster than 12,5 minutes. Fast activation can be done for bids with activation time (CIM:activation_ConstraintDuration.duration) shorter than the minimum requirement for the standard product. When circumstances call for it, the TSO can order activation of such bids on a shorter notice.
Z38		Fast deactivation can be done for bids with activation time (CIM:activation_ConstraintDuration.duration) shorter than the minimum requirement for the standard product. When circumstances call for it, the TSO can order activation of such bids on a shorter notice.
Z39		Bids that can support a Full Activation Time (FAT) that is slower than 12,5 minutes.

as Business Types instead of Document types in the Activation Market Document, hence these codes were deprecated as Document types and new Business Types were added:

Z97	Faster than standard FAT	Deprecated (Use Business Type C83 Z97 instead)
Z98	Faster than standard deactivation time	Deprecated (Use Business Type C84 Z98 instead)
Z99	Slower than standard FAT	Deprecated (Use Business Type C85 Z99 instead)

Further, The Business types are deprecated since we have got new business Type codes in the ENTSO-E code list:

C83	Faster than standard FAT	Bids that can support a Full Activation Time (FAT) that is faster than standard FAT. Fast activation can be done for bids with activation time shorter than the minimum requirement for the standard product. When circumstances call for it, the TSO can order activation of such bids on a shorter notice.
C84	Faster than standard deactivation time	Fast deactivation can be done for bids with activation time shorter than the minimum requirement for the standard product. When circumstances call for it, the TSO can order activation of such bids on a shorter notice.
C85	Slower than standard FAT	Bids that can support a Full Activation Time (FAT) that is slower than standard FAT.

However, according to Bent-Atle, it is a requirement from NBM is to use Document Type codes for this information, hence Bent Atle suggest that we remove the deprecation of these Document Types.

Conclusion:

- We un-deprecate the Document (Message) types and update the NMEG code list

Action:

- Ove will update the NMEG code list and send it for circulation for comments for one week before publishing it.

Item closed.

11.7 Status for new Nordic extended Schedule Outage Market Document

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, 20240227 and 20240506:</p> <ul style="list-style-type: none"> • Ongoing
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.

MR #		Status
		20240110, 20240205 and 20240227: <ul style="list-style-type: none"> Ongoing 20240506: <ul style="list-style-type: none"> Withdrawn (removed from NMEG agenda)
NMEG 2024/212	Add Related_MarketParticipant to Activation Market Document	20240205, 20240227 and 20240506: <ul style="list-style-type: none"> Ongoing.

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

Teemu K informed that the Customer switching subgroup under JWG/TF2 is planning to finalise the document and hand it over to the EU Commission by the end of this year, hence the subgroup plans to finalise it in July for the JWG/DSO Entity approval process.

14 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.

No news.

15 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 BRSS are updated with NBM documents.

The item was postponed.

16 Ediel.org Mysql issue

Background: 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 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.

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

Teemu and Ove has made a draft proposal and Ove will populate the archive when he replaces documents at the Ediel website.

Reviewed and OK.

Action:

- Ove will make a small text for the Archive menu and links to the sub-menus.

18 NMEG Technical Committee (NTC)

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

- a) Continue with NBS documents:
 1. NBS ebIX® based documents.
 2. NBS documents based on older ENTSO-E schemas.
 3. NBS master data documents.

The members of NMEG CIM-XML Subgroup are Bent Atle, Christian, 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.

18.1 CIM for NBS

The item was postponed.

18.2 Report from NTC meeting April 9th

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

Teemu K had as action investigated how the Finnish data hub handle the combination of asset type “**B25** Energy storage” and the Business type “**A04** Consumption (general consumption)” internally in the database, when sending the “NEG (ebIX® based) Aggregated Data per MGA (E31, E44) – **consumption**” document to eSett:

Consumption is not aggregated in Finland; hence the Asset Type is treated as a Business Type.

The main topic for the meeting was continued review of a common Nordic Request change of supplier document. From discussion:

- We add the new attribute `protectedInformation` to the `MarketParticipant` class in both Market and ESMP, to handle the Finnish requirements for an “Additional Customer ID”.
- We add the “language” attribute to the `Name` class in ESMP and use the attribute for the Finnish requirements for an “Customer Language”.
- We add “`AlternativeIdentifier/ Name/ mRID`” to ESMP, to handle the Finnish requirements for an “Additional Customer ID”.
- We add “`extendedStorage`” attribute to `MarketEvaluationPoint` in Market and ESMP, to handle the Norwegian requirements for an “Extended Storage”.
- We add “`commercialClassification`” attribute to `MarketEvaluationPoint` in Market and ESMP, to handle the Norwegian requirements for an “NACE code”.

Action:

- All are asked to investigate if the attribute name “`commercialClassification`” is OK and if we should add the attribute to the `MarketAgreement` class (or another class) instead of the `MarketEvaluationPoint` class.

18.3 Report from NTC meeting April 16th

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

Mario has sent a mail informing that Elhub is looking for best practices and tools to enable version control in Sparx EA. Elhub is struggling recently with parallel work on changes to market messages. To properly support it, Elhub needs some sort of version control/compare/merge tool (similar to git in coding world) which could run on object granularity in EA. When changing market messages, Elhub has one or several objects in EA (in XSD export they correspond to various data types, simple or complex ones) which get changed. Those are elements we need to track changes on and merge to master at some point. Mario has sent an inquiry to Sparx Systems, and they pointed him to an external company they work with.

Hence, Mario asks if anyone have some insights in such tools (or maybe have some solution already running) to recommend?

Response from Jan (DK):

We are also working with version control in Sparx EA. Currently we are working with using a version model outside of Sparx EA, where we will use Azure DevOps for handling the versions. But that is only the “result file” change will be made in EA.

I am hoping that we will acquire LemonTree, because it can compare different EA files and merge them, so when change come from international groups, it will be easier to identify the change and merge the wanted

items into the local version, and not the things that we do not need or want to change. We have tested LemonTree a little and we have only positive experiences with lemon tree.

We have not chosen our practices yet, so we will be very interested in what you will choose and what your experiences are with LemonTree.

Response from Bent Atle:

I create object models from class diagrams which I then export to a versioning language in GitLab. There I can handle versions, and HTML publications.

I also find the Energinet solution interesting.

Jan (SE) informed that there is a "cim-compare" tool available at <https://github.com/cimug-org/cim-compare>.

To be followed up at coming meetings.

Also for this NTC meeting the main topic was continued review of a common Nordic Request change of supplier document. From discussion:

- Jan (SE) informed from the "IEC-meeting" last week; regarding AlternativeIdentifier, I noted that you are not supposed to use the mRID attribute in the Name class for this other AlternativeIdentifier, but actually use the .name attribute for this. That sounds strange, but however, if mRID will be removed from the Name class (and replaced by the inherited Identity.identifier, always a UUID) there will not be any mRID in Name class to use. Then it will then be the association that tells it is an id, but not the attribute... However, it was agreed to use the mRID in the Name class and find another way of mapping it if the mRID is removed from CIM.
- In Elhub there is currently possible to repeat the Communication class (Communication Channel, Complete Number and Description 99 times [0..99]. However, there is only four Communication Channels (Email, Mobile, Phone and Telefax) and the Telefax is probably not needed anymore. Hence it was agreed to map the Communication class to the attributes phone1, phone2 and electronicAddress in the UsagePointLocation class.
- Similar, it was agreed to skip Contact information type from the Contact Information class in the Finnish document and use the attributes phone1 and electronicAddress in the UsagePointLocation class instead.
- We make a note that we assume solution described in the two bullet points above will be OK.
- The attributes Attention Of, On Behalf and Care Of were agreed mapped to associations from the MarketParticipant class to the Name class.

At the next meeting we will:

- Prepare a presentation for NMEG:
 - Summarize what we have done so far related to Request change of supplier.
 - Suggest the next steps.
 - Shall we make one or more Nordic BRSs for the downstream market?
- Walk through chapter 3 of the memo (Need for MRs to ENTSO-E, DSO Entity, JWG and/or IEC/TC57/WG16)
 - Start on the Conform request change of supplier document (The Finnish document is document in chapter 13.4 Acknowledgement event).

Actions:

- Teemu K will find event reason codes to be used for Confirm request change of supplier
- Ove will make the mapping to CIM as agreed at meeting.

18.4 Report from NTC meeting April 25th

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

Jan (DK) informed that he cannot participate at the NMEG meeting May 6th in the morning, hence Ove will ask Jon-Egil (and thereafter NMEG) if we can move the NMEG meeting until 12:00 – 15:00.

Jan (DK) also informed that he had only received hotel request from Ove for the NMEG meeting in May, hence Ove will send a reminder to NMEG for hotel booking.

From Jan de Jong (ref. discussion under item 18.3, Report from NTC meeting April 16th:

I am familiar with LemonTree versioning due to work at one of the Dutch DSOs, but at EDSN we do not work with LemonTree versioning because we use EA's versioning on package level. This is sufficient for us.

[@Mario Pranjic \(mario.pranjic@statnett.no\)](mailto:mario.pranjic@statnett.no): LieberLieber offers a LemonTree Trial Version to check if it meets your requirements.

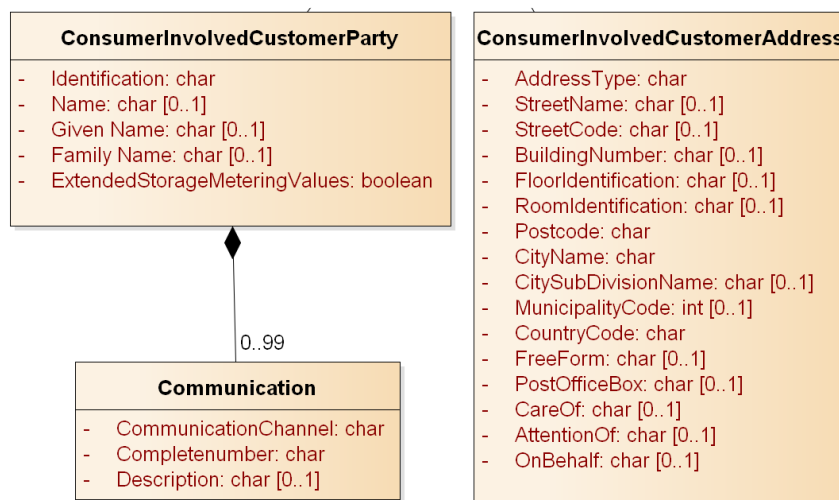
Mario informed that he has had a meeting (and demo) with LemonTree, who explained that LemonTree can compare two EA files and show the differences between these in a simple way. Further, the software can keep track of all changes (using git) and if wanted LemonTree can merge the part(s) you want merged.

Mario intends to test LemonTree and promised to report back.

Regarding the Alternative Identifier attribute need by the Finnish datahub, Jan (SE) informed that IEC advise using the “name” attribute in the Name class instead of the mRID attribute for the Alternative Identifier. It sounds strange, but however, if mRID will be removed from the Name class (and replaced by the inherited Identity.identifier, which always is a UUID) there will not be any mRID in Name class to use. Then it will be the association that tells it is an ID. Hence, we change the conclusion from previous NTC meeting an use the “name” attribute instead of the mRID attribute.

At the previous meeting we mapped were a bit too quick with the mapping of the “Description” and the “FreeForm” attributes needed by Elhub, i.e. these were mapped to the same “description” attribute in the UsagePointLocation class, ref.:

After some discussions it was agreed to request the addition of a new “Communication” class to CIM. When we design the new Communication class, we will include the requirements from the NBM master data memo drafted earlier this year, see item action item for Jan (SE) under item 11.4 in these minutes:



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

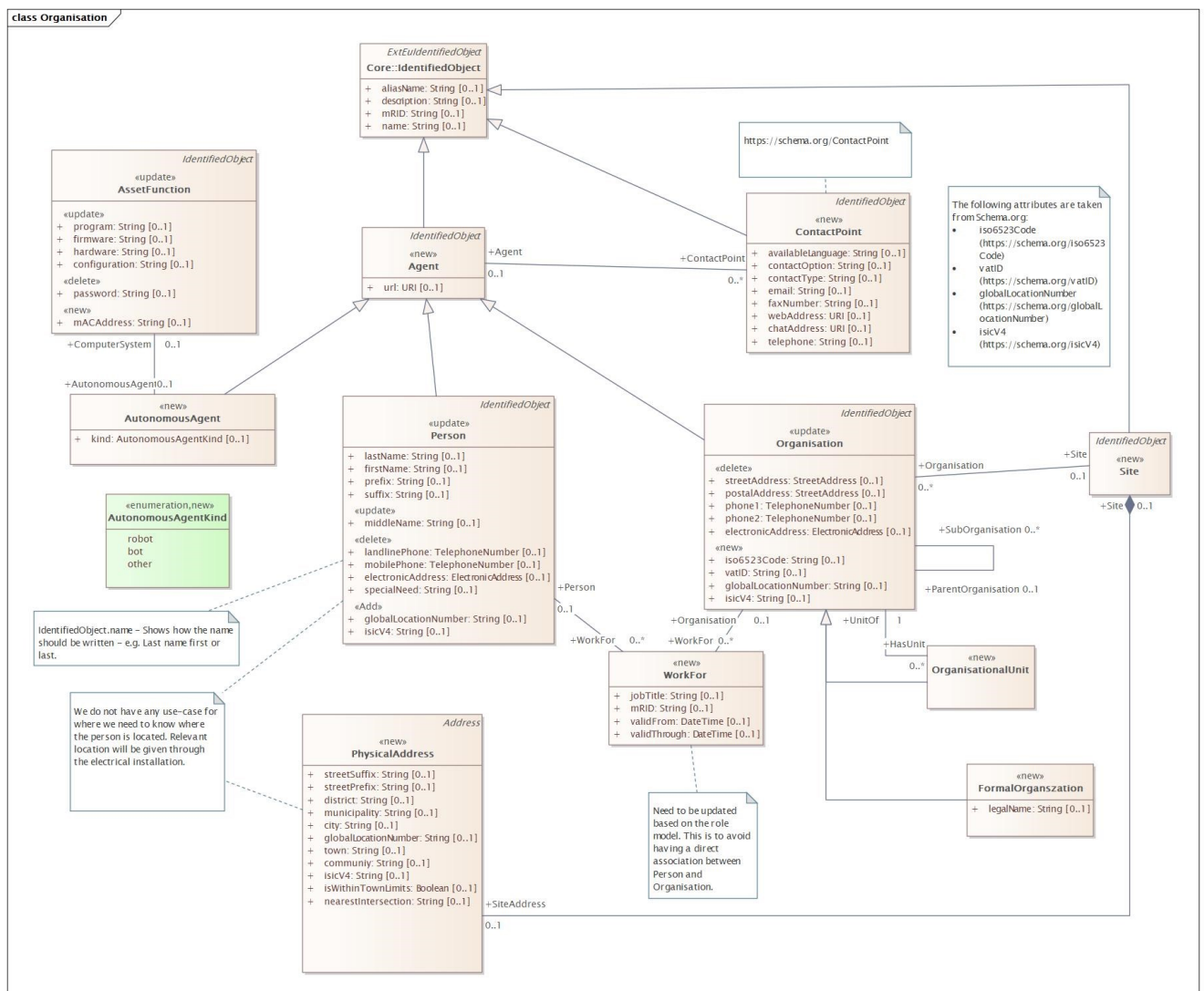
A description of “ECP endpoint”, “EDX service” etc can be found here: <https://ediel.org/wp-content/uploads/2023/10/NEX-Addressing-Guidelines.pdf>

After the meeting Jan (SE) informed from an IEC discussion:

Regarding a possible new class “Communication” that we discussed today, there is a draft new class called “ContactPoint”.

The following draft class diagram comes from a draft “Grid18v06_Support14v02”-eap file from TF 14. The file is from September last year, but the proposal is earlier, it originates from summer 2022, anyhow I added “summer” to the file name (but kept 2023...).

I will continue checking this issue.



It would be associated both with “Person” and “Organisation” – and then also with MarketParticipant.

But it would not tell how to use SFTP, SMTP, ECP/EDX or how we communicate, electronically, with each other in the industry. And then we should perhaps also associate the “Communication” class with

classes like “Process” and “MktActivityRecord” in order to tell “for this process...” or “for this type of event...” we communicate like this. To be investigated.

Anyhow. ContactPoint is of interest, and it is, due to the comment in the figure, based on what we can find here

<https://schema.org/ContactPoint>

Conclusion:

- We will add a ContactPoint class to be used for the Communication class needed by Elhub and also map Finnish communication attributes to the new class.
- We will continue investigating how to add the master data requirements from NBM (“ECP endpoint”, “EDX service” and “Allowed email domains: string”)

At the end of the meeting it was agreed that Ove will make a small presentation for NMEG:

- Summarise what we have done so far related to Request change of supplier.
- Suggest that NTC continue the mapping work:
 - Next documents will be confirm/reject change of supplier
 - We will start making Nordic BRSs for the downstream market, starting with Change of Supplier:
 - The structure of the BRSs will be based on existing NMEG BRSs and ebIX® BRSs.
 - The new BRS will be used to present Nordic requirements for the JWG/DSO Entity work (e.g. with change of supplier Implementing Regulation (IR)), and to show Nordic extensions and restrictions to the IRs from EU.

Action:

- Jan (SE) will make a first draft proposal for a new communication (ContactPoint) class covering the needs from Elhub and NBM master data.
- Ove will create a doodle poll for next NTC meeting

19 Review of documents from CIM WG subgroups and IEC groups

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

References (links):

What to decide,

discuss or inform: Review of documents from CIM WG subgroups that is of interest for the Nordic market.

19.1 Prepare Nordic positions before coming CIM WG meetings

The item was postponed.

20 Information (if any)

No information exchanged.

21 Next meetings

NMEG:

- Tuesday May 28th and Wednesday May 29th at Energinet's offices in Erritsø
 - Prioritised items:
 - 1) Nordic determine transfer capacity BRS vs ENTSO-E implementation guides, see item 11.2
 - 2) CIM for NBS, see item 18.1
- Wednesday June 19th, 10:00 – 14:00, GoToMeeting
- Tuesday September 3rd and Wednesday September 4th at Statnett's offices Oslo
 - Svein (Statnett) will join us from 10:00 to 12:00 the first day to discuss CIM modelling of datahub databases, such as making a CIM version of the Elhub Information Model (EIM).

NTC:

- May 22nd, 12:00 – 14:00

22 AOB

No items.

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