

Minutes: NMEG meeting Date: Monday April 8 th , 2024 Time: 09:00 – 12:00 Place: GoToMeeting	<h1>NMEG</h1> <p>Nordic Market Expert Group</p>
April 10 th , 2024	

Present: Christian, Energinet
Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (convenor)
Mario, Elhub
Ove, Edisys (secretary)
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: None

1 Approval of agenda

The agenda was approved with the following additions:

- New Reason Code for heartbeat test, see item 9.2.
- Nordic determine transfer capacity BRS vs ENTSO-E implementation guides, see item, see item 11.2.
- Deprecated Document Type codes, see item 11.6.2.
- May we use our messages for other utilities than electricity (and gas)?, See item 16.

Since Jan (DK) is unable to participate at the planned meeting August 27th and 28th in Oslo, the meeting was moved to September 3rd and 4th.

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.

The handover of ebIX® deliverables to the DSO Entity is ongoing. The former ebIX® representatives Jan (SE), Gerrit, Vlatka and Ove are having handover meetings with DSO Entity members and participants from JWG TF2 and TF3. There will be a two-days physical handover meeting in Essen end of April. The handover work must be finalised before summer, since the ebIX® founding will end by June 30th.

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.

The item was postponed.

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

Jon-Egil informed that he will ask NIT if the new secure communication platform may be hosted by Nordic RCC or if it should be a pure TSO network.

Continued action:

- Jon-Egil will contact the convenor 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 working setting up the secure 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 BRSs, MRs for CIM and/or ESMP, etc. All based on Nordic RCC needs.

Nothing reported.

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 Update of NMEG BRSs with missing attributes, codes etc. from the NBM IGs

Ove has started on a walkthrough the NBM BRSs and IGs to see what is missing in the NMEG BRS.

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 delt with in NMEG before update and/or publication.

9.2 New Reason Code for heartbeat test

From Bent Atle:

We have a Heartbeat feature that checks if the BSP responds to dummy activations, i.e. to check that they are up and running. If they do not respond, bids intended for this BSP will be made unavailable.

Information of deactivated bids will be sent in a BidAvailability_Document, where we need a Business Type Code saying something like "Control message not answered", and a Reason Code saying something like "Z81 BSP is unavailable".

Already existing Business Type Codes, however not really fitting:

Code	Name	Description
A54	Unplanned outage	An unplanned outage has occurred on the object in question.
C91	Anonymised constraint	The time series describes an anonymised constraint.
<i>(From BSP guide (same as MARI))</i>		
C40	Conditional bid	Standard product bid that is conditional on bids submitted outside of common platform.
C41	Thermal limit	The current causing a given network element to work outside of the range of safe operating temperatures.
C42	Current limit	A constraint related to the containment of frequency deviations within a given area.
C43	Short-circuit current limits	The maximum or minimum permissible voltage within normal operation state of a given network element.
C44	Dynamic stability limit	The maximum permissible current within normal operation state of a given network element.
C45	Short circuit current limit	The maximum permissible short-circuit current within normal operation state of a given network element.
C46	Dynamic stability limit	A maximum permissible load ensuring the control of oscillations in the grid and avoiding the loss of synchronism.

Suggested new Business Type Codes:

Code	Name	Description
ZA0 ¹	Missing response	A response is missing, such as related activations, heartbeat tests.

Already existing Reason Codes:

Code	Name	Description
B12	Communication status currently active	The status within the system indicates that the communication capability is currently active.
B13	Communication status currently inactive	The status within the system indicates that the communication capability is currently inactive.
B14	Communication status currently restricted	The status within the system indicates that the communication capability is currently restricted.
Z81	BSP is unavailable	The Balancing Service Provider (BSP) is unavailable (timeout).

Conclusion (and action):

- The new Business Type Code “ZA0 Missing response” was approved.
- Ove will update and publish the NMEG code list.

¹ We have reached the ceiling of Znn codes for Business types (last one published is Z99), hence we need to start with alphanumeric values for the "nn" part.

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

Ove had as action added the CIM based Party master data document and Resource master data document as appendixes to the NBS master data BRS. The main changes are:

- Addition of a new appendix A and B, containing the CIM based Ediel Party Master Data and Resource Master Data documents. The documents are intended to be used by both NBM (Nordic Balancing Model) and NBS (Nordic Balance Settlement).
- Update of definition of roles and domains in chapter 3, to be in line with the latest version of the Harmonised Role Model.

Action:

- Ove will publish the NBS master data BRS and the new xml schemas.

Item closed.

10.2 Update of NBS BRS and NBS BRS for TSO-MO

For information:

Tuomas P had asked Ove on March 26th to add business type **A69** to the urn-ediel-org-neg-ecan-publicationdocument-1-0-restricted-codes.xsd, since eSett's plan is to be able to provide Intraday Auction prices to market participants using the Publication document and business type **A69**. eSett is not receiving, and there aren't any plans to receive the intraday auction price data via that data flow. Therefore, Tuomas P don't think it is necessary to add it into the BRS and adding the new code to the list could be sufficient. Hence, Ove updated the schema and published it.

Action:

- Ove will ask Tuomas P why **A69** not should be added to the NBS BRS for TSO-MO.

Ove had as action "cleaned up" the NBS BRS after review at the previous NMEG meeting, sent it for one week of commenting and published it www.ediel.org on March 21st.

Ove had also aligned the NBS BRS for TSO-MO with the NBS BRS, i.e. keep overlapping process descriptions only in the NBS BRS and make references to the NBS BRS in the NBS BRS for TSO-MO where applicable. The BRS was sent on circulation for comments to NMEG until this meeting.

The updates of NBS BRS for TSO-MO were reviewed and it was agreed to publish the BRS.

Action:

- Ove will publish the NBS BRS for TSO-MO.

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.

Ove informed that the BRS for Nordic TSO-TSO settlement and the extended FSKAR xml schema was published February 22nd.

On March 13th Jan (SE) informed that wrong xml schemas (Activation document instead of FSKAR settlement document) had been published, hence Ove corrected the error and published the correct xml schemas. In addition the BRS was updated with the correct version number of the xml schemas to be used. Since the updates are seen as an error correction, the BRS was published directly.

Jan (SE) showed a PowerPoint presentation with some comments regarding the usage of Acquiring Domain/ Connecting Domain together with Flow Direction. The presentation relates to an agreement between Norway and Sweden and shows some questions related to how to combine `acquiring_Domain`, `connecting_Domain` and `flowDirection`.

After some discussions it was agreed that Jon-Egil and Jan (SE) will look deeper into the topic as homework.

Jan (SE) had also found an annex to an agreement between Svenska kraftnät and Statnett that may be used as basis for a more detailed description in the first chapters of the BRS for TSO-TSO settlement.

Actions:

- Jon-Egil and Jan (SE) will find 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.

- Ove will make a first draft a more detailed description in the first chapters of the BRS for TSO-TSO settlement based on the input from Jan (SE).

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

From Jan (SE):

I got a question from a colleague that is looking at capacity using flowbased and he wondered how ENTSO-E implementation guides are related to the NMEG document regarding capacities.

E.g. how are ENTSO-E documents like:

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

related to the Nordic BRS (DETERMINE TRANSFER CAPACITY PROCESS)?

- [Nordic TSO message exchange model \(ediel.org\)](https://ediel.org)

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

Do we need a chapter in our Nordic BRS that tells the (Nordic) differences with ENTSO-E implementation guides?

It was agreed that we should add a comment in the beginning of our BRSs that NMEG will base its BRS on available ENTSO-E documents as far as possible. The BRSs shall show how we are using the ENTSO-E documents in the Nordic countries.

It was also noted that the BRS for Determine transfer capacity is not up to date, hence we will a review of the BRS for Determine transfer capacity a prioritised item at our meeting in Denmark in May.

Action:

- Ove will make a first draft for a comment in the beginning of our BRSs that NMEG will base its BRS on available ENTSO-E documents as far as possible. The BRSs shall show how we are using the ENTSO-E documents in the Nordic countries.

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

The item was postponed, probably until next physical meeting.

11.4 NMEG CIM master data documents

The item was postponed until next meeting.

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”
- Ove will follow up on 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*

The item was postponed until next meeting.

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.

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.)

Conclusion from earlier NMEG meetings:

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

Action:

- Ove will send a reminder to Søren.

11.6.2 Deprecated Document Type codes

At the NMEG meeting August 26th, 2021, it was proposed having the information:

Z97		<p>Bids that can support a “Full Activation Time” (FAT) that is faster than 12,5 minutes.</p> <p>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.</p>
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Z98		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.
Z99		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:

Z37	Faster than standard FAT	Deprecated (Use Business Type Z97 instead)
Z38	Faster than standard deactivation time	Deprecated (Use Business Type Z98 instead)
Z39	Slower than standard FAT	Deprecated (Use Business Type Z99 instead)

Further, 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 MARI to use Document Type codes for this information, hence Bent Atle suggest that we remove the deprecation of these Document Types.

Action:

- Jon-Egil will investigate the issue.

11.6.3 [New Reason code from Svenska kraftnät \(NBM\)](#)

Bent Atle informed that Svenska kraftnät, and maybe NBM in the future, needs a new Reason code for “base load”, hence the following code has been reserved:

Z89	Reserved for Svenska kraftnät (NBM): Base load	Base load means that we activate a volume completely disconnected from the market to cover imbalances for operational reliability reasons. Base load can be used in certain scenarios where there are not enough bids to meet the demand that exists.
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Conclusion and actions:

- The new Reason code was approved.
- Ove will publish the code list.

Item closed.

11.6.4 [New Reason code from Statnett](#)

Jon-Egil has asked for three new Reason codes:

Z90	Reserved for Statnett: Fallback	Fallback process is used because of failure in normal market process
Z91	Reserved for Statnett: Requesting assistance	The sender of the document is requesting assistance
Z92	Reserved for Statnett: Providing assistance	The sender of the document is providing assistance

Conclusion and actions:

- The new Reason codes was approved.
- Jon-Egil will provide a definition of **Z90** before publication.
- Thereafter Ove will publish the code list.

Item closed.

11.6.5 [New codes related to Period shift bids from Statnett](#)

In standard mFRR product bids the BSP can indicate in the Reason-element that the bid can be used for period shift if it is not selected for scheduled activation.

Conditional linking can be used to avoid activation both before and after a quarter shift. A special conditional linking status may be used to specify the availability for period shift bids. This conditional linking status also allows linking to a component in a multipart bid or to the group identifier of a multipart, exclusive or inclusive bid. This is in contrast to all other conditional linking which only supports linking between simple bids.

New Linked_BidTimeSeries status code:

Applicable to period shift bids in Norway

The following value may be used when bid in MTU0 is available, i.e. BidTimeSeries = A06, and has support for period shift. The linked bid in MTU-1 can be either simple or complex. For complex bids the link can reference either the mRID of a single bid component of the complex bid, or the group identifier of the complex bid (i.e. multipartBidIdentification, exclusiveBidsIdentification, or inclusiveBidsIdentification)

ZXX = Not available for activation if linked bid activated

The following Status code was agreed:

Code	Name	Description
Z04	Not available for activation if linked bid activated	Bid not available for activation if linked bid is activated.

Conclusion and actions:

- The new Status code was approved.
- Ove will publish the code list.

Item closed.

[11.6.6 New Document Type codes related to Activation of disturbance from Statnett](#)

Statnett asks for the following Document Type codes:

Code	Name	Description
Z43	Disturbance reserve	A document containing activation of disturbance reserves.
Z44	Other non-standard reserve	A document containing activation of non-standard reserves.

Conclusion and actions:

- The new Document Type codes were approved.
- Ove will publish the code list.

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	20220907: <ul style="list-style-type: none"> • Forwarded by Ove to Jon-Egil for submission to CIM WG 20221006: <ul style="list-style-type: none"> • Ongoing

MR #		Status
		<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 20240408:</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. <p>20240110, 20240205, 20240227 and 20240408:</p> <ul style="list-style-type: none"> Ongoing
NMEG 2024 212	Add Related_MarketParticipant to Activation Market Document	<p>20240205, 20240227 and 20240408:</p> <ul style="list-style-type: none"> Ongoing.

Jon-Egil informed that, since Alvaro is changing workplace from ENTSO-E to the Continental Europe RCC (Regional Coordination Centre) in Brussels, nothing has been done to the MRs.

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

Mario and Teemu K informed that there is missing stuff in the Demand Response IA, i.e. the new network codes are referencing the IR and opposite, hence for the moment it is a bit confusing.

A draft IA for Change of Supplier should be available during spring, since it is expected finalised in the autumn.

Jan (SE) informed that JWG is working on a repository containing available profiles etc. and that he has been asked to support this work.

Regarding the repository a draft JWG text tells: "7.3. ENTSO-E and DSO Entity shall put in place a dedicated and publicly available repository (website) to publish the guidance for the mapping of national practices, the collected mappings and their version history, as well as other relevant information with regards to the facilitation of European energy service interoperability. The repository could also include a private area for administrative tasks. Name, URL, branding, infrastructure, governance, and other related aspects of the website shall be decided by the Joint Working Group"

14 Message for control of load in a Metering Point

Background: Fingrid/Fingrid datahub is 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.

References (links):

What to decide,

discuss or inform: This is a "to remember item" from Fingrid/Fingrid datahub.

Teemu K informed that the work is ongoing and is expected finalised this spring, and probably will be sent for political assessment in the autumn.

The item will be removed from our agenda and Fingrid will inform NEMG when there is something to discuss.

15 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 fine member(s).

References (links):

What to decide,

discuss or inform: Status for the project.

Nothing new reported.

16 May we use our messages for other utilities than electricity (and gas)?

Background: Svenska kraftnät has got the question if metered values from district heating companies could be sent using the same format as for electricity.

References (links):

What to decide,

discuss or inform: Perhaps something to investigate at some time in the future. Until then, see this just as a note: our message could be used for more than electricity.

From Jan (SE):

Well, in our current Swedish descriptions we do have the unit "MTQ" for cubic meter, the unit "MQH" for cubic meter per hour, and the unit "CEL" for Degrees Celsius. So, most relevant units are covered I would say, otherwise additional units from Recommendation 20 could be found and used.

However, for the attribute that today tells e.g. Energy active using the EIC-code "8716867000030", can we really tell that kind of information? For gas the code "5410000100016" will typically be used, and perhaps there will be a corresponding code for hydrogen in a not far future. We have nationally added some codes for time series that we handle or have handled, mostly internally but also some externally:

7331507000013 (time) – for time series using the unit seconds (SEC)

7331507000020 (amount) – for time series just with amounts or exchange rates (SEK or EUR and others)

7331507000037 (temperature) – for time series with temperature (CEL)

7331507000044 (global solar radiation) – for time series with global solar radiation

7331507000051 (frequency) – for time series using the unit Hz, i.e. Hertz (HTZ)

7331507000068 (volume)

7331507000075 (length)

7331507000082 (flow)

7331507000099 (speed)

7331507000105 (calorific value)

So, I think we have the codes, to be used for e.g. cubic meter per hour (a flow), or just when wanting to tell “cubic meter” (a volume). However, we still only have “23” and “27” to tell the kind of utility.

Ove informed that we have the following available codes from UN/CEFACT:

- 28** Garbage collection industry
To identify the garbage collection industry
- 29** Cable television channel distribution industry
To identify cable television (TV) channel distribution industry.
- 30** Water distribution industry
To identify the water distribution industry.

Conclusion:

- NMEG sees no problems if other utilities use our documents and models.

Item closed.

17 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.

18 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.

Teemu H and Ove will have a first meeting to discuss item 18 and 19, Friday April 26th at 01.00 CET. Ove will send an invitation.

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.

19 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.

See above.

20 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.

20.1 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.

Interim conclusions (to be discussed in NMEG):

- Validated data for settlement for Aggregator:
 - The best alternative seems to be basing the document on the NBM Measurement Data Market Document. However this is a Nordic document, and it may require some efforts to get it approved by ENTSO-E.
 - The second-best alternative seems to be sending a set of MRs for update of the RGCE Measurement value document.

- Aggregated data per MGA:
 - It doesn't seem to be any existing CIM documents that fits the need; hence we will probably have to make our own Nordic CIM document.
- Aggregated data per neighbouring grid
 - Of the existing ENTSO-E alternatives, the FSKAR document seems to be closest to the NBS need.
 - Suggest discussing in NEMG if should continue with the Nordic document made for the Danish DataHub or try to update the FSKAR document.
- Confirmation of aggregated data per neighbouring grid
 - The confirmation of aggregated data per neighbouring grid document has exactly the same attributes and associations as the Aggregated data per neighbouring grid, hence we should use the same document, possibly with a different document type.

From first brief discussion in NMEG February 23rd, 2023????:

- We should avoid using the RGCE document, since this is a specific RGCE document.
- For Aggregated MGA data, we should investigate the EAR document.

We will give priority to this issue at our meeting in May in Denmark.

20.2 Report from NTC meeting March 8th

Present: Bent-Atle, Jan (SE), Mario, Ove and Teemu K

Questions from Mario:

- eSett is adding an Asset type for Batteries to distinguish consumption from batteries from other consumption. I assume the reason for this is that there is no consumption type that is "Energy Storage" like there is a production type. In Elhub we have no field called "Asset Type" and the settlement job does not recognize that as a field, so we need to somehow aggregate on consumption type. At least internally.
 - How should we do this?
 - Is it possible to get ENTSO-E to add a consumption type for energy storage?

From discussion:

- In the "NEG (eBIX[®] based) Aggregated Data per MGA (E31, E44) – **consumption**" document, the asset type "**B25 Energy storage**" is the only Asset Type used. The asset type "**B25 Energy storage**" is only used together with Business type "**A04 Consumption (general consumption)**".
- In the "NEG (eBIX[®] based) Aggregated Data per MGA (E31, E44) – **production**" document, the asset type "**B25 Energy storage**" is one out of 13 Asset Types used.
- eSett info: <https://www.esett.com/news/upcoming-changes-in-data-flow-contents/>
- Elhub info: <https://www.esett.com/handbook/#handbook-4-6-energy-storages>
- NBM has something similar, where business type A04 for Consumption and A01 for production are used and then using mktPSRType.psrType (Asset Type) to set the type of source. Then the battery can be used for production and consumption.
- Danish documentation, see:
 - https://energinet.dk/media/Onsklumj/20220422-edi-transaktioner-for-danske-elmarkede-cim-ver-1_4.pdf
 - <https://energinet.dk/media/cydi0yyn/edi-transaktioner-for-det-danske-elmarked-rsm-guide-ver-576.pdf>

Action:

- The Danish DataHub and the Fingrid datahub is asked to investigate how they handle the combination of asset type “**B25** Energy storage” and the Business type “**A04** Consumption (general consumption)” internally in their databases, when sending the “NEG (ebIX® based) Aggregated Data per MGA (E31, E44) – **consumption**” document to eSett.

Some clarifications asked for by Ove:

- We need to move the NMEG meeting April 29 – can we come up with some proposed dates?

Conclusion:

- Friday April 26th, Friday May 3rd, Monday May 6th and Tuesday May 7th were proposed as alternatives. All days from 9:00 to 12:00.

Action:

- Ove will start asking Jon-Egil if he is available at these times and thereafter send a Doodle to the rest of NMEG.

- Shall we make an invitation to Svein for looking into EIM at our NMEG meeting end of August?

Conclusion:

- Mario sent the invitation for two hours during the August meeting in Oslo

- Shall we update (finalise) the “ETC memo - How to make extensions to CIM - v0r1A 20210423” and publish it as a NMEG memo?

Conclusion:

- Ove will make a first draft.

- Shall we send the PowerPoint presentation “Nordic datahub CIM harmonisation” to Lars Ihler upfront the Nordic TF57 meeting March 21st?

Conclusion:

- Mario will review it one more time before sending it to Lars.

Ove had updated the memo: “NMEG CIM master data documents”; the Party master data document and the Resource master data document have been extended to fit the needs from NBS. Since the documents are supposed to be downwards compatible with the previous versions, Ove has asked Unicorn to see if also NBM can use these documents instead of the previous versions. It would be good having only one set of Nordic master data documents.

Question:

- In the new Resource master data document we added the ObjectType class to tell the type of Domain, i.e. MGA or BZ. Should we also change the Party master data document to use the same principle? I.e. replace the associations between MktActivityRecord and Domain with one association named Domain and add the ObjectType class to tell the type of Domain, i.e. MGA or BZ?

Ove has asked NBM (Unicorn) the same, however without any answer yet.

Conclusion:

- We propose using the same principle in Resource and Party master data documents, i.e. add the ObjectType class to the Party master data document. In addition Ove will add ObjectAggregationTypeList as the code list for Domain types.

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. Among others it was discussed how to add the “Operator ID” related to the Electronic invoicing address:

- Shall we use an association to MarketParticipant or is the “Operator” some other party than a MarketParticipant?
- Is the term “Operator” good?

The discussion will be continued at next meeting.

20.3 Report from NTC meeting March 15th

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

The Danish DataHub and the Fingrid datahub had as action from previous meeting to investigate how they handle the combination of asset type “**B25** Energy storage” and the Business type “**A04** Consumption (general consumption)” internally in their databases, when sending the “NEG (eBIX® based) Aggregated Data per MGA (E31, E44) – **consumption**” document to eSett.

Status:

- Jan (DK) informed that Asset Types are not handled in Denmark.
- Teemu K will investigate till next meeting

Continued action for Teemu K:

- Teemu K will investigate 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.

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

- How to add the Finnish requirement for “Electronic invoicing address/ Operator ID”?

Electronic Invoicing Address
Buyer Reference [0..1]
Electronic Invoicing Address [1]
Operator Identification [1]

- Examples of VAN operators in Sweden when sending e-invoices to them, and not using Peppol, nor email (PDF-files), are: InExchange, CrediFlow, Pagero, Kofax, Visma Commerce, Basware
- Household customers in Norway must have a social security number or minimum a “D number” issued by the tax authorities, see <https://elhub.no/datakvalitet-i-elhub/datavask/tildeling-av-d-nummer-til-sluttbrukere-uten-fodselsnummer/> (in Norwegian).

Conclusion:

- The three attributes were mapped to MktActivityRecord/ AccountingPoint/ MarketAgreement/ Invoicing_ MarketParticipant/ description, electronicAddress and mRID.
- Ove had proposed mapping the “Basic customer information” to attributes within “MktActivityRecord/ AccountingPoint/ MarketAgreement/ Customer_ MarketParticipant”. However, to be in line with the original Danish proposal we will map the “Basic customer information” to “MktActivityRecord/

AccountingPoint/ Customer_MarketParticipant” instead. I.e. we link the information to the Accounting Point instead of the MarketAgreement class.

- The Customer type will be mapped to the ObjectType class, which is associated to IdentifiedObject in IEC61970/Base/Core.

Action:

- Ove will update the EA model with agreed changes.

Next meetings:

- April 9th, 14:30 – 16:00
- April 16^h, 09:00 – 11:00
- April 25, 14:00 – 16:00

At the next NMEG in Denmark we will present the Request change of supplier document and discuss the way forward.

21 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.

21.1 Prepare Nordic positions before coming CIM WG meetings

22 Information (if any)

23 Next meetings

NMEG:

- Monday May 6th, 09:00 – 12:00, GoToMeeting
- 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 20.1
 - 3) NTC will present the Request change of supplier document and discuss the way forward, see item 20
- 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:

- April 16^h, 09:00 – 11:00
- April 25, 14:00 – 16:00

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

² The NBS version 1.0 is using dateTimeType for Validity Start/End (error correction), while the MO version 1.0 is using dateType. dateTimeType will be used from version 2.0.

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