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| <p>Agenda: NMEG meeting Date: Tuesday August 29th and Wednesday August 30th Time: 09:00 – 17:00 and 09:00 – 16:00 Place: Nordic RCC, Copenhagen Towers, Ørestads Blvd. 114, 2300 København</p> |  Nordic Market Expert Group |
| September 11 th , 2023 | |

Present: Bent Atle, Statnett (NBM) (via Teams)
Christian, Energinet
Henrik, Energinet
Jan (DK), Energinet
Jan (SE), Svenska kraftnät (first day)
Jon-Egil, Statnett (Convenor)
Ove, Edisys (Secretary)
Søren, Nordic RCC
Teemu, Fingrid

To (NMEG): Anne Stine, Elhub
Christian, Energinet
Henrik, Energinet
Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (Convenor)
Miika, Fingrid
Ove, Edisys (Secretary)
Pamina, Energinet
Teemu, Fingrid

CC: Bent Atle, Statnett (NBM)
Fedder, Energinet
Fredrik, Fingrid
Hans Erik, Elhub
Mario, Elhub
Tage, Energinet

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

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

Henrik from Energinet was welcomed as a new member of NMEG.

1 Approval of agenda

The agenda was approved with the following additions:

- Update of NBS BRS and NBS BRS for TSO-MO, see item 8.5.
- NMEG Roadmap, see item 17.1 under AOB.
- NWIP for making json from CIM, see item 17.3 under AOB.
- Ediel.org Mysql issue, see item 17.4 under AOB.

Focus items:

- Exchange of settlement information between the Nordic TSOs – prioritised item, see item 8.1.
- Intraday Auctions (IDA) and Ediel ECAN Publication Document (in NBS-BRS for TSO-MO), see item 8.2.

2 Approval of previous meeting minutes

The previous meeting minutes were approved.

3 Resolve matters related to close down of ebIX®

Background: ebIX® Forum decided at their meeting March 21st to prepare a plan for the closing of ebIX® by the end of 2023. The close down was confirmed at an ebIX® Forum meeting May 30th.

References (links):

What to decide,

discuss or inform: Discuss and resolve possible consequences NMEG.

NMEG has offered to publish the ebIX® documents after the closure of ebIX®, however we expect that someone else will do the publishing, such as keeping the ebIX® web site for some years or published it at the joint EU DSO Entity and ENTSO-E workgroup (JWG) web site.

Jan (SE) informed that it was an unformal meeting in the JWG and that there is a PowerPoint presentation available. Among others Henrik Hornum will participate in one of the EU DSO Entity taskforces.

4 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 looking into if ECP can be used by NBM. It looks OK for the time being, but this conclusion may not last for long since ECP has limited capacity (throughput).

5 Nordic RCC

Background: The Nordic RCC is working on TSO data exchange regarding Long-term Capacity Calculation process and need changes to ESMP and CIM.

References (links): None.

What to decide,

discuss or inform: Update of ESMP and CIM based on Nordic RCC needs.

Søren asked: Somehow related to the introduction of the new CSA profiles, ENTSO-E are also pushing an update to Header data exchange specification. The idea seems to be to better utilize DCAT (moving from DCAT-2 to DCAT-3) to improve meta data exchange with the various CGMES profiles to achieve some level of discoverability and to better manage version control.

Jon-Egil will send information from the ENTSO-E “header project” to Søren.

6 Support to the NBM project – prioritised item

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

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

The CIM-XML Subgroup has drafted three new master data documents: Portfolio master data document, Resource master data document and Party master data document. Bent-Atle has sent these three documents on circulation for comments to NBM, however so far without any comments.

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”

6.2 Status for new document for FCR (Reserve) Bid Document

At a NMEG GoToMeeting June 26th, the ReserveBid_MarketDocument was reviewed in relation to implementation in NBM. Among others the following updates of the NMEG BRS for Nordic trading system were proposed:

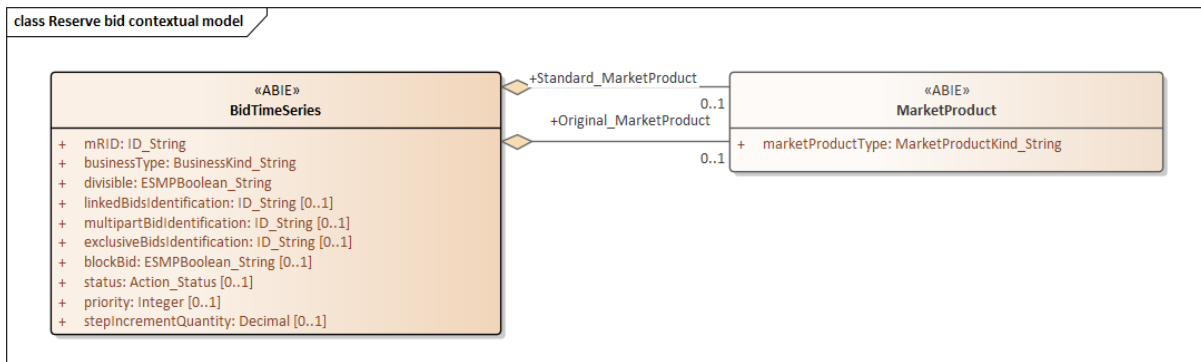
- The classification of minimum_ConstraintDuration.duration was suggested changed to “D” (Dependent) with a comment: “Required if block-bid”.
- It was assumed that re-purchase only is possible in the second auction. If Re-purchase, a new bid is sent with negative quantities.
- The NMEG Code list was updated with Nordic Contract types:
 - Z01** First auction
 - Z02** Second auction
- Jan (SE) informed after the meeting that the codes are not used (unfortunately...). Instead, auction.mRID is used to determine, for example:

"FCR_CAPACITY_MARKET_2ND_COMMON"

Not pretty, but there may be a future update of both FCR, aFRR and mFRR to get rid of it.

Conclusion 20230830:

- The Contract types (marketAgreement.type) will be removed from the NMEG code list and the BRS for Nordic trading system.
- It was proposed using the Standard_MarketProduct for “Dynamic” og “Static” bids.



- The Standard_MarketProduct is also added to the Balancing document under IEC62325-451-6 Ed.2.1.
- Shall we add it to the Trade BRS?
- Two new Nordic Market Product types have been added to the NMEG code list:
 - **Z02** Dynamic FCR-D product
 - **Z03** Static FCR-D product
- We must find definitions for the new Nordic Market Product types **Z02** and **Z03**.

Conclusion 20230830:

- Postponed until verified and agreed by the project.

- Shall we add the Balancing Document to the Trade BRS?

Conclusion 20230830:

- Postponed until verified and agreed by the project.

- NBM uses the Message type “B40 Complete set of bids” for the Reserve Bid Document, which is missing in the NMEG BRS for the Nordic trading system – Shall we add it? Do we also need a new arrow in the for aFRRoverview sequence diagram?

Conclusion 20230830:

- The code **B40** is used in the capacity market (e.g. aFRR and mFRR), hence added to the BRS.

Proposed updates of the BRS for Nordic trading system were reviewed and agreed.

Action:

- Ove will send the update BRS for Nordic trading system to NMEG for one week of commenting before publishing it.

7 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 2022/201 | Rename Asset Type B25 to “ B25 ” | 20220321: <ul style="list-style-type: none"> ● Sent to Jon-Egil for forwarding to CIM WG |

| MR # | | Status |
|------------------------------|--|--|
| | Permanent energy storage” | <p>20220823:</p> <ul style="list-style-type: none"> Forwarded to WG16, proposed having permanent and temporary as separate codes in PSRType. <p>20221006:</p> <ul style="list-style-type: none"> Ongoing <p>20230124:</p> <ul style="list-style-type: none"> Still ongoing <p>20230222:</p> <ul style="list-style-type: none"> Action: Jon-Egil will ask Alvaro for a status. <p>20230411 and 20230830:</p> <ul style="list-style-type: none"> Continued action for Jon-Egil: to ask Alvaro for a status. |
| NMEG 2022/202 | Add Asset Type “B?? Temporary energy storage”. | <p>20220321:</p> <ul style="list-style-type: none"> Sent to Jon-Egil for forwarding to CIM WG <p>20220823:</p> <ul style="list-style-type: none"> Forwarded to WG16, proposed having permanent and temporary as separate codes in PSRType <p>20221006:</p> <ul style="list-style-type: none"> Ongoing <p>20230124:</p> <ul style="list-style-type: none"> Still ongoing <p>20230222:</p> <ul style="list-style-type: none"> Action: Jon-Egil will ask Alvaro for a status. <p>20230411:</p> <ul style="list-style-type: none"> The MR was revied and updated. Action: Jon-Egil will re-submit the MR to CIM WG. <p>20230830:</p> <ul style="list-style-type: none"> The MR has been resubmitted, however no result yet. |
| 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 and 20230830:</p> <ul style="list-style-type: none"> Ongoing |
| NMEG 2023/206 (CIM WG) | Change version number for documents where Measure_unit is used in ESMP | <p>20230126:</p> <ul style="list-style-type: none"> Sent to Jan (SE), Bent Atle and Jon-Egil for QA before submission to CIM WG. <p>20230222:</p> <ul style="list-style-type: none"> Ongoing <p>20230411:</p> <ul style="list-style-type: none"> The MR was revied and updated. Action: Jon-Egil will submit the MR to CIM WG. <p>20230830:</p> <ul style="list-style-type: none"> The MR has been resubmitted, however no result yet. |
| NMEG 2023/207 (CIM WG) | Add version number to the class diagrams in ESMP | <p>20230126:</p> <ul style="list-style-type: none"> Sent to Jan (SE), Bent Atle and Jon-Egil for QA before submission to CIM WG. <p>20230411:</p> <ul style="list-style-type: none"> The MR was revied and updated. |

| MR # | | Status |
|------------------------------|--|---|
| | | <ul style="list-style-type: none"> Action: Jon-Egil will submit the MR to CIM WG. <p>20230830:</p> <ul style="list-style-type: none"> The MR has been resubmitted, however no result yet. |
| NMEG 2023/208 (CIM WG) | Add New Asset types (psrTypes) - based on rejected MR 197. | <p>20230308:</p> <ul style="list-style-type: none"> Sent to Jan (SE) and Jon-Egil for QA before submission to CIM WG. <p>20230411:</p> <ul style="list-style-type: none"> The MR was reviewed without any changes. Action: Jon-Egil will submit the MR to CIM WG. <p>20230830:</p> <ul style="list-style-type: none"> The MR has been resubmitted, however no result yet. |
| NMEG 2023/209 (CIM WG) | Increase the cardinality between RegisteredResource and MarketParticipant. | <p>20230622:</p> <ul style="list-style-type: none"> Sent to Jan (SE) for QA before Jon-Egil submits the MR to CIM WG. <p>20230830:</p> <ul style="list-style-type: none"> The MR has been submitted, however no result yet. |

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

Background: NMEG is responsible for a set of BRSs that are published at www.ediel.org.

References (links): None.

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

8.1 Exchange of settlement information between the Nordic TSOs – prioritised item

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”.

Most of the first day of the meeting was used to go through the responses to Jan (SE)'s excel sheet:

- Some of the documents from Jan (SE) were merged to one document. E.g. Metered import, Metered export, Metered exchange between external areas (import) and Metered exchange between external areas (export) will be the same document – only difference is that the in- and out- areas will be switched between import and export.

- Thereafter the documents were mapped to three CIM documents: FinancialSettlementReport (FSKAR), MeteringData (FSKAR) and ERRP ReserveAllocationResult.
- “Egenförbrukning HVDC” will probably not be used, i.e. skipped for the time being.
- We will make an MR for addition of Price_MeasureUnit and a Price class containing an amount attribute and an association called Price (it was discussed if the association should be called Price or Unit_Price, but the final conclusion was asking for Price).
- For the Agreed Supportive Power (ERRP Allocation result document): If supportive power needs detailing, reason codes may be used, see https://nordic-balancing.pages.fifty.eu/information/common-guidelines.html#_harmonized_products_definitions.

Questions to be answered as homework:

- 1) Do we need a “corridor” in the Planned exchange document?

Action:

- Ove will make an MR for update of the FSKAR document in due time before next CIM WG (end of September).
- Ove will make a draft BRS for TSO-TSO settlement.

8.2 Intraday Auctions (IDA) and Ediel ECAN Publication Document (in NBS-BRS for TSO-MO)

From Tuomas:

In eSett we have a need to enable also Intraday Auction Prices in the document, so this would require a new Business Type code for it. There wasn’t any direct match for it in the code list.

However, the issue is that there are currently three IDAs planned, meaning that there will be three price timeseries as well. So, we would need a way to distinguish IDA1, IDA2 and IDA3 somehow within the document.

Alternatives may be to use the Allocation ID, Allocation Type or Contract Type; however, this must be investigated and if applicable we should follow the solution used by the IDA project.

Tuomas informed April 17th that the following roles are sending and receiving the Ediel ECAN Publication Document today:

Basically, eSett allows all market participants to request in xml format (NEG (based on ENTSO-E ECAN) Publication Document) any price data that is available and displayed in the settlement system for users. So, the sender is eSett (“A05” – Imbalance Settlement Responsible) and receiver is any of the following:

- “A12” – Retailer (Balance Supplier)
- “A08” – Balance Responsible Party (BRP)
- “A09” – Distribution System Operator (Grid Operator)
- “A04” – Transmission System Operator (TSO)
- “A46” – Balancing Service Provider (BSP)

However, this is not in line with the BRS. Shall we update the BRS? YES – a footnote was added

Jon-Egil had as action verified with the IDA project how this is exchanged today. He has suggested for the IDA project to use the marketAgreementType in the Schedule document for a similar purpose. This will be discussed at the ENTSO_E CIM WG meeting June 21st and 22nd. **Jon-Egil’s proposal was accepted, with some smaller changes to the code names, hence the contractType attribute in the Publication document was updated with addition of the new codes.**

Action:

- Ove will send the updated NBS-BRS for TSO-MO to eSett for verification before sending it to NMEG for one week of commenting and thereafter publication.

Item closed.

8.3 Update of NBS BRS with the option of sending negative losses

Status for update of NBS BRS, “5.2 NEG (ebIX® based) Aggregated Data per MGA (E31, E44) – consumption”:

- a) Shall we remove the note saying that quantity can be negative for Business Type **A07**:

Note:

- Business type “**A07** Net production/ consumption” **uses signed values, i.e. will be negative when pumping.**

Continued action:

- Jon-Egil will verify if Norway is sending negative **A07**

- b) Can we Replace Process Type “**Z05** Bilateral Trade” with “**A59** Internal trade reporting”

- To be investigated when we can Replace Process Type “**Z05** Bilateral Trade” with “**A59** Internal trade reporting” in NBS BRS, “5.2 NEG (ebIX® based) Aggregated Data per MGA (E31, E44) – consumption”.

From Tuomas November 17th, 2022:

We’ll most likely need a transition phase (several months) where BRPs may use either old code **Z05** or new code **A59** as sudden ‘forced’ go-lives have proven to be difficult.

- This might not need to impact the BRS, but only eSett on a system level.
- ‘A forced go-live’ is however necessary for reporting from eSett back to market parties, as we need to decide which code we should apply during different time frames.

I support that we’ll do this change, but first we’ll need to plan it, communicate it clearly to market and give them enough time to react and adjust on their end.

Ove had as action asked Tuomas for a plan regarding item b) above, i.e. for when we update the NBS BRS and when the transition period will be, with the following response:

We discussed the topic of process type change together with our TSO expert group on 9th of February.

It was concluded that the change can be done earliest in H1/2024 and in two phases with adequate transition period. Transition period meaning in this case that both Z05 and A59 are supported during some interim period.

There were remained some open questions as some of the TSOs need to discuss both internally and with their vendors before committing to a more detailed time plan.

Hopefully, I can get back to this topic with more accurate plans soon once we have received replies from the TSOs.

Conclusion from meeting February 22-23, May 23rd and August 30th, 2023:

- We must await more info from Tuomas.

8.4 Status for new Nordic extended Schedule Outage Market Document

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

The item was postponed.

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

From Bent-Atle:

- a) In Figure 1, the term Balance Supplier is used.

- Ove will correct to Energy Supplier.
- Ove will replace DSO with DSO/TSO.

- b) In Figure 2, Bent Asle has added question marks where NBM have an interphase to “Local Settlement and NOIS”.

- There are currently no NMEG BRSs handling the “local (national) settlement”.

c) In general, how many of these exchanges are on CIM? How many are on EDIFACT?

- All exchanges are based xml, however using an older ENTSO-E standard and not CIM.

2.4 Overview of information exchange for the NBS metering and settlement phase

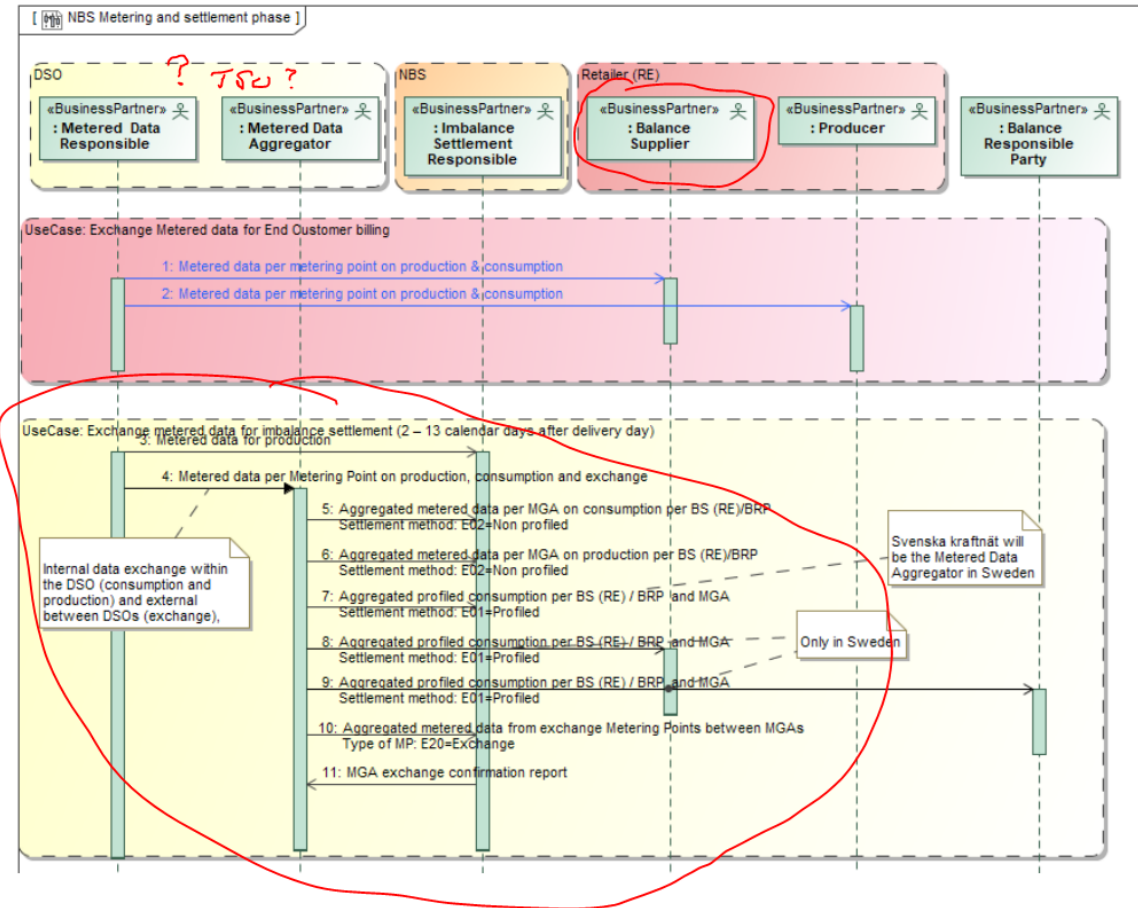


Figure 1 Questions to NBS metering and settlement phase

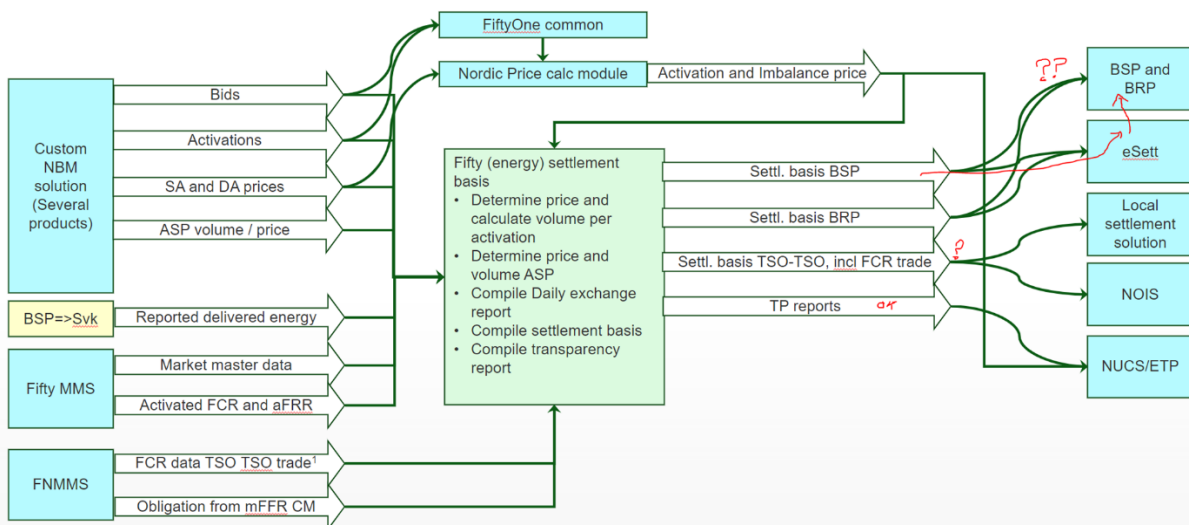


Figure 2 NBM settlement interphases

Conclusion:

- At the next meeting we will do a brainstorming to see if there is a need for a BRS for settlement not handled by eSett or the Nordic data hubs.

9 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 NMEG's help in making the needed CIM based xml schemas.

References (links): None.

What to decide, discuss or inform: Status report from Jan (SE).

Noting new reported.

10 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 a member(s).

References (links):

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

Postponed until discussed in the joint wg between EU DSO Entity and ENTSO-E (JWG).

11 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 is 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.

12 NMEG CIM-XML Subgroup

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) Update the NMEG model with the latest ebIX® extension.
- b) Make a road map for making CIM documents for the Danish Datahub version 3.0.
- c) 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 Christian, 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.

12.1 CIM master data document for NBM

Handled under item “6.1 CIM master data documents for NBM based on NBS master data documents”.

Item closed.

12.2 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:

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

To be continued.

12.3 Report from NMEG CIM-XML subgroup meeting June 21st

- Participants: Bent Atle, Christian, Jan (DK), Jan (SE) and Ove.
- Main topic was master data documents for NBM.
- The current proposal for “Party master data document” was compared with the class diagram from Unicorn, which among others resulted in the following updates:
 - Addition of a new association from MarketParticipant to DateAndOrTime, to handle the Validity attribute in the Party agents class in the class diagram from Unicorn.
 - Addition of a new association from MarketParticipant to Market_Process, to handle the Market attribute in the Party agents class in the class diagram from Unicorn.
 - Increasing the cardinality of the association MarketRole from [0..1] to [0..*].
- Thereafter similar comparisons were made related to the “Resource master data document” and the “Portfolio master data document”.
 - Among others it was mentioned that we need a “Portfolio class” associated with the MktActivityRecord class to hold the Portfolio mRID.
 - It was also noted that the Portfolio mRID is missing in the class diagram from Unicorn.
- It was unclear if we need a separate document for “Market master data”, since this information already is conveyed in other master data documents. This will be investigated further.

Action:

- Ove will make proposals for the “Party master data document”, the “Resource master data document” and the “Portfolio master data document” before next meeting in the NMEG CIM XML sub group.

12.4 Report from NMEG CIM-XML subgroup meeting June 26th

- Participants: Bent Atle, Christian, Jan (DK), Jan (SE), Jon-Egil, Ole and Ove.
- Bent Atle had distributed a Nordic MMS FCR Gude before the meeting.
- The ReserveBid_MarketDocument was reviewed and some proposals for updates were proposed.
 - For instance: The classification of minimum_ConstraintDuration.duration was suggested changed to “D” (Dependent) with a comment: “Required if block-bid”.
- It is assumed that re-purchase only is possible in the second auction. If Re-purchase, a new bid is sent with negative quantities.
- It was not enough time to review the other documents. If Bent Atle needs more feedback, it is an option to use some time of the NMEG CIM-XML subgroup meeting on Wednesday June 28th.
- The NMEG Code list was updated with Nordic Contract types:

Z01 First auction

Z02 Second auction

12.5 Report from NMEG CIM-XML subgroup meeting June 28th

- Participants: Bent Atle, Jan (SE) and Ove.
- Main topic was review of review of FCR (Reserve) Bid Document that will be used by the Nordic MMS (NBM), i.e. handling issues that had turned up after the previous meeting June 26th.
- Among others, the two new Nordic Market Product types was added to the NMEG code list:
 - Z02** Dynamic FCR-D product
 - Z03** Static FCR-D product
- The last quarter of the meeting was used to review the master data document proposal for NBM, i.e. how to map the class diagram from Unicorn to the Portfolio master data document.

12.6 Report from NMEG CIM-XML subgroup meeting July 4th

- Participants: Bent Atle, Jan (SE) and Ove.
- Main topic was Portfolio master data document for Nordic MMS, which was restructured.
- Among others, the Resource membership class from the Unicorn class diagram was implemented as an association from MktActivityRecord to Aggregated_RegisteredResource with another association to Registered Resource.
- New meeting to handle comments to the Portfolio master data document and eventually start on the Resource master data document was agreed to Friday August 19th, 12:30 – 14:00.

12.7 Report from NMEG CIM-XML subgroup meeting August 18th

- Participants: Bent Atle, Jan (DK), Jan (SE), Jon-Egil and Ove.
- The proposal for NMEG CIM Portfolio Master Data Document was reviewed:
 - The NMEG CIM Portfolio Master Data Document Contextual model was agreed as is.
 - The related questions in the “Memo: NMEG CIM master data documents” were also reviewed and agreed.

Action:

- Ove will try generating a xml schema for the NMEG CIM Portfolio Master Data Document before next meeting, Tuesday August 22nd.
- Thereafter the NMEG CIM Resource Master Data Document was briefly reviewed
 - The following changes was agreed to the NMEG CIM Resource Master Data Document:
 - Rename Registered Resource to Aggregated_RegisteredResource
 - Rename Related_RegisteredResource to RegisteredResource
 - Add association from RegisteredResource to Party_MarketParticipant

Action:

- Ove will update the NMEG CIM Portfolio Master Data Document according to the changes above before next meeting, Tuesday August 22nd.

At the next meeting, Tuesday August 22nd we will:

- Review the xml schema for the NMEG CIM Portfolio Master Data Document.
- Review the updates of NMEG CIM Resource Master Data Document

If time, we look into “Exchange of settlement information between the Nordic TSOs”, as a preparation for our physical meeting in Copenhagen the week thereafter.

12.8 Report from NMEG CIM XML Subgroup August 22nd:

- Participants: Bent Atle, Jan (SE) and Ove.
- The first part of the meeting was dedicated to master data documents.
 - There were no comments to the updated descriptions or the xml schemas for the Portfolio master data document and the Resource master data document distributed after the previous meeting last Friday.
 - It was noted that we need xml schemas for the Party master data document.
 - No one saw any need for the Marke master data document.
- The last part of the meeting was used for preparations for finding message(es) related to TSO-TSO settlement exchange – prioritised item on the agenda for NMEG face-to-face meeting next week.

Actions:

- Ove will generate xml schema for the NMEG CIM Party master data document.
- Bent Atle will verify with NBM, Fifty, Unicorn and other possible stakeholders if the documents and xml schemas are OK.

13 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.

14 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.

14.1 *Prepare Nordic positions before coming CIM WG meetings*

No agenda available yet, hence nothing to prepare.

15 Information (if any)

16 Next meetings

NMEG:

- Thursday October 5th, 10:00 – 15:00, GoToMeeting
- Wednesday November 1st and Thursday November 2nd, 09:00 – 16:00 (both days), Oslo
- Tuesday December 5th, 10:00 – 15:00, GoToMeeting
- Tuesday January 9th and Wednesday January 10th at Svenska kraftnäts offices in Sundbyberg (Stocokholm)

NMEG CIM XML subgroup:

- No meetings planned.

17 AOB

17.1 *NMEG Roadmap*

The time after lunch the second day was mainly used on aligning the NMEG roadmap with a new layout. However, it was not enough time to finalise the alignment work, hence Jon-Egil and Ove will continue the alignment as homework.

Action:

- Jon-Egil and Ove will continue aligning the NMEG roadmap with a new layout.

17.2 *Message for control of load in a Metering Point (from Fingrid)*

The item was postponed.

17.3 NWIP for making json from CIM

Jan (SE) informed that a new NWIP (New Work Item Proposal) is available – will this contradict with the json generated from the CIMSyntaxGen tool from ENTSO-E?

Jon-Egil informed that Statnett has looked into it and that he supports the NWIP.

17.4 Ediel.org Mysql issue

www.ediel.org was down for some hours in July. It seems like the issue was around Mysql, the Mysql user we were using was deleted since it was under an old domain - 96873_edieltest - (edieltest.org).

It 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.

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.

Appendix A Overview of Nordic memberships in international standardisation bodies

| Name | Member of |
|---------------|--|
| Anders (SE) | CGMES, ESMP |
| Anne Stine | NMEG, ebIX® |
| Christian | NMEG, ebIX® observer (?) |
| Fedder | NMEG, CIM WG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO |
| Jan (DK) | NMEG, IEC/WG16 |
| Jan (SE) | NMEG, HG, ebIX®, IEC/WG16+14, ESMP, TFD, TK57 |
| Jon-Egil | NMEG, CIM WG, IEC/WG16, ESMP, CCC, CIO/LIO, NEK, TPC, TFD |
| Martin (SE) | CCC |
| Miika | CIM WG, NEX |
| Moustafa (SE) | CGMES |
| Oscar | CIO/LIO, ebIX®, CIM WG, TK57 |
| Ove | NMEG, HG, ebIX®, IEC/WG16, NEK |
| Svein (NO) | IEC/WG14+13, CGMES |
| Teemu | NMEG, CIM WG, EBG, ETC, CIO/LIO |

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 |
| EBG | ebIX® Business Group |
| EEAT | ENTSO-E Enterprise Architecture Team (subgroup under Dc) |
| ESMP | European Style Market Profile (subgroup under CIM WG) |
| ETC | ebIX® Technical Committee |
| HG | ebIX®, EFET and ENTSO-E Harmonisation Group |
| MC | ENTSO-E Market Committee |
| MIT | Market Integration and Transparency (subgroup under MC) |
| NEK | Norsk Elektroteknisk Komite |
| NEX | Nordic ECP/EDX Group |
| TFD | ENTSO-E Task Force Data Interoperability and Access, |
| TK57 | Teknisk Komité 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 |
| 25. | ENTSO-E ERRP Activation Document | BRS for Operate | | | | | | 5.0 (not complete) |

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.

| | | | | | | | | | |
|-----|--------------------------|-----|--|--|--|--|--|--|-----------------|
| 26. | Capacity Market Document | ??? | | | | | | | 7.1, 8.0 |
|-----|--------------------------|-----|--|--|--|--|--|--|-----------------|