Minutes: NMEG meeting		**NMEG**
Date: Tuesday January 24th, 2023		
Time: 10:00 – 12:00 and 13:00 – 15:00		Nordic Market Expert Group
Place: GoToMeeting		
February 23rd, 2022		

Present:	Bent Atle, Statnett (NBM)
	Christian, Energinet
	Jan (DK), Energinet
	Jan (SE), Svenska kraftnät
	Jon-Egil, Statnett (Convenor)
	Ove, Edisys (Secretary)
	Pamina, Energinet
	Søren, Nordic RCC
	Teemu, Fingrid
To (NMEG):	Anne Stine, Elhub
	Christian, Energinet
	Jan (DK), Energinet
	Jan (SE), Svenska kraftnät
	Jon-Egil, Statnett (Convenor)
	Miika, Fingrid
	Ove, Edisys (Secretary)
	Pamina, Energinet
	Teemu, Fingrid
CC:	Audun, Elhub
	Bent Atle, Statnett (NBM)
	Fedder, Energinet
	Fredrik, Fingrid
	Hans Erik, 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
Appendix C:	BRS for Nordic Trading System: Mismatch between the sequence diagram and the sender/receiver roles in the Business Data View
Attachment:	None

1   Approval of agenda

The agenda was approved with addition of:

- Request for new Reason codes from NBM, see item 6.2.
- Issues related to update of Energinet (DataHub) CIM model with Accounting Point and Exchange Point – To be discussed at next physical NMEG meeting, see item 12.1.

2   Approval of previous meeting minutes

The previous meeting minutes were approved.

3   Can we publish the new NMEG Terms of Reference (ToR)?

Action:
- Ove will publish the new ToR.

Item closed.

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.

Nothing reported.

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.

Noting reported.

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   Update of NMEG BRSs based on NBM input

Ove had as action updated the BRS for Operate and the BRS for Determine transfer capacity for new review at this meeting:

- During preview of the BRS for Operate at the previous meeting, Bent Atle got the following action:
  - "Action for Bent Atle to verify if we shall uses Measure or Measurement as association name between TimeSeries and Mesure_Unit."
    - ***Bent Atle recommendation:***
      - I would recommend ENTSO-E to change Major version on all documents which use or used Measure_Unit and change to Measurement_Unit for all documents.
      - E.g. We have ReserveBid_MarketDocument 7.x->7.2 and then in version 7.3 it was fixed to Measurement_Unit. Should have been included in a Major version instead of hiding in new Minor version.
  - Jon-Egil informed that Measurement is used in all new documents from ENTSO-E. However it seems a bit strange, since it seems to be the only association where the association end name is different from the related class name.

  Conclusion:
  - We use Measurement unit for the NBM Measurement Document in the Operate BRS.

Action:

- Ove will make a MR for changing the version number of the documents where Measure_unit is changed to Measurement_unit, i.e. the new version should be a major version, since this change is not backwards compatible.

6.2   Request for new Reason codes from NBM

From Bent Atle:

We (NBM) need 2 new reason codes unless anyone can find existing suitable codes.

The codes will be used for the ASP product, which has business Type "**Z92** Agreed supportive power". We need code for Outage and Midnight:

- Midnight follows certain rules, but happens at midnight, 15 min before or something like that. The purpose is to perform something around midnight.
- Outage is really to be able to get HVDC line down faster due to the planned outage.

I don't want to dedicate much description to reason codes as it only limits the use for other purposes.

As you can see from the green graph below, the imbalance will have to be regulated over 2 hours versus 10-15 min.
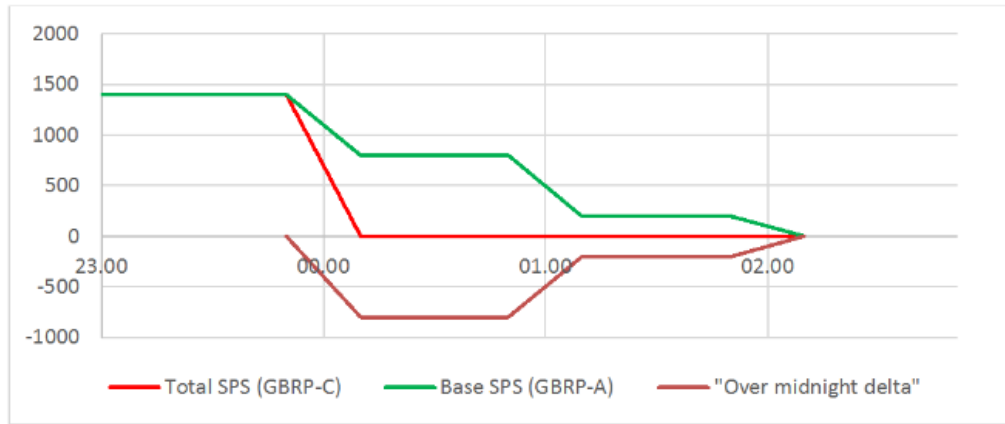
Proposal for name and definition:

Code	Name	Description
Z71	Midnight	Capacity change at midnight.
Z72	Outage	Planned outage.

Action:

- Ove will update the code list and publish directly.

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) have 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 2022/197	Add new codes: Aggregated commercial heat load (A resource using aggregated commercial heat load, including heat pumps in office buildings, for energy). Aggregated electric vehicle chargers (A resource using aggregated electric vehicle chargers, commercial and private, for energy). Aggregated private heat pumps (A resource using aggregated private heat pumps for energy). Reserve power (A resource using reserve power for energy).	*20220304:* • Postponed since Jan (SE) was sick. *20220602:* *Action:* o Jan (SE) will verify if the still is OK. • If yes, Jon-Egil will submit the MR to CIM WG. *20220823:* • MR sent from Ove to Jon-Egil August 26th for forwarding to CIM WG. **20221006:** • Jon-Egil will verify the MR is sent. **20230124:** • The MR is sent. However the MR was rejected since these are not technology codes • To be continued

	Cogeneration (Combined Heat and Power) (A resource using cogeneration, combined heat and power, for energy). Commercial load (industry) (A resource using commercial load (industry), for energy).	
NMEG 2022/199	Add a new element "inclusiveBidsIdentification" to the iec62325-451-7-reservebiddocument_v7_3.xsd	*20220304:* • Not approved at ENTSO-E ESMP meeting February 25th. • Jon Egil will add the description of how MARI now is using linkedBidsIdentification and involve Alexander Koistinen in that if needed. I.e. why can't linkedBidsIdentification be used? *20220602:* • MR updated and will be sent to WG16 *20220602:* • To be continued *20220823:* • Under discussion in WG16 and will be added as an issue in Redmine. *20221006*: • Agreed, but not yet added to CIM. *20230124*: • Added to latest ESMP but probably not to basic CIM yet • Item closed
NMEG 2022/201	Rename Asset Type **B25** to "**B25 Permanent** energy storage"	*20220321:* • Sent to Jon-Egil for forwarding to CIM WG *20220823:* • Forwarded to WG16, proposed having permanent and temporary as separate codes in PSRType. *20221006*: • Ongoing *20230124*: • Still ongoing
NMEG 2022/202	Add Asset Type "**B??** Temporary energy storage".	*20220321:* • Sent to Jon-Egil for forwarding to CIM WG *20220823:* • Forwarded to WG16, proposed having permanent and temporary as separate codes in PSRType *20221006*: • Ongoing *20230124*: • Still ongoing
NMEG 2022/204	Rename the title of the Process Type **A58** from "Reserve option market" to "mFRR capacity market"	*20220425:* • Sent to Jon-Egil for submission to CIM WG *20220823:*

		• To be continued ***20221006:*** • To be continued **20230124:** • Agreed • Item closed
NMEG 2022/203 (WG16)	Add a new attribute "inclusiveBidsIdentification" to the BidTimeSeries class.	***20220422:*** • Forwarded by Ove to Jan (SE) with a copy to Jon-Egil for submission to WG16 ***20220602:*** • Send to WG16 by Jan (SE) with ID NMEG 2022/204 (duplicate ID number (see below) 🙁) ***20220922***: • From Jan (SE): The addition of inclusiveBidsIdentification to BidTimeSeries has the issue id 5980 in Redmine, see https://redmine.ucaiug.org/issues/5980 ***20221006***: • Ongoing ***20230124***: • Agreed • Item closed
NMEG 2022/205 (CIM WG)	Addition of a Category attribute to TimeSeries in IEC62325 and ESMP	***20220907:*** • Forwarded by Ove to Jon-Egil for submission to CIM WG ***20221006***: • Ongoing ***20221031:*** • 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 ***20230124***: • Not agreed – Jon-Egil, Jan (SE) and Alvaro will draft a new proposal. • To be continued

Conclusions:

• The MR NMEG 2022/197 must be discussed at the next physical NMEG meeting.

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 BRS for Nordic Trading System: Mismatch between the sequence diagram and the sender/receiver roles in the Business Data View

The review of a table showing mismatch between sender/receiver in the Business Data View and the sequence diagram was finalised - see Appendix C.

Søren had as action checked if the Area Specification Document is used by RCC (NorCap) and the answer is:

> No, NRCC does not use Area Configuration Market Document. The only balance sheet related we receive is aFRR market data from NMMS (NBM) based on Schedule_MarketDocument.

Action:

- Ove will update the BRS for Trade and send it for circulation for comments for one week before publishing it.

Iten closed.

8.2 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: Assuming we (the Nordic countries) will use EAR (in a CIM version) for most of our exchanges of settlement information between the TSOs, can we agree upon some common codes and usages of that message, instead of having bilateral agreements? And since eSett also is using that message (a namespaced version of the ENTSO-E ESP Energy Account Report version 1.2) it would be relevant to get input from eSett regarding their possible updates and change to CIM.

Bilateral discussions between Denmark and Sweden have just started, perhaps that should be "part of" a more general Nordic discussion, and documentation, of how to exchange settlement information?

At the NMEG meeting in November, it was proposed to add an in_Area and an out_Area to the EAR document. Alternatively it may be an option using the ERRP Allocation Result Document.

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".

Se documents from Jan (SE):
- PowerPoint presentation "Settlement information between TSOs.pptx", which was distributed to NMEG February 28th, and redistributed October 6th.
- Excel sheet showing settlement related information exchanges with the following columns: "Description", "Per (MP, SO…)", Unit, Parties for Svk exchange" and "Comments Svk", distributed June 2nd, and redistributed October 6th.

Ove sent a reminder to Jon-Egil, Teemu and Pamini January 10th.

Teemu sent his homework during the meeting, Pamina has started the work, but it is more work than expected, hence Pamina will come back soon and Jon-Egil has sent a request internally but so far without any response. This will be a main item at our next meeting.

Continued action:

- Jan (SE), Jon-Egil, Teemu and someone from Denmark are asked to fill in the Excel sheet from Jan (SE) with today's exchanges and the content (information) behind it.
- All are asked to send the result to Ove latest by one week before next meeting, who will merge the results.

8.3 Usage of Reason codes in NBS BRS for TSO-MO– prioritised item

Status for addition of new reason codes to NBS BRS for TSO-MO:

Z58	Scheduled activation
Z59	Direct activation
Z60	Faster activation
Z61	Deactivation

And proposed additions from Norway:

| **Z63** | Period shift activation |
| **???** | mDFR Manual Disturbance Frequency Reserve |

At the previous NMEG meeting, Jon-Egil informed that the mDFR code is needed by Statnett to go live with NBM in the not too far future. However, the latest news is that the code probably not will be needed in the near future after all, hence the addition of mDFR is canceled for the time being.

The addition of new reason codes was reviewed and updated.

Continued action:

- Ove will send the updated NBS BRS for TSO-MO to eSett and ask for their comments. NMEG will await a response before doing anything more.

8.4 Rename of Market Balance Area to Bidding Zone or Scheduling Area (to remember item)

Continued action:

- Ove will go through the BRSs and other documents and change Market Balance Area to Bidding Zone or Scheduling Area. If uncertain, Ove will make a note for discussion at a later NMEG meeting. This is not a time critical action.

8.5 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.***
> - Also Business type "**A15** Losses" uses signed values, i.e. can be negative.

Continued action for Jon-Egil:

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

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

- o 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".
- o 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.

Action:

- Ove will ask Tuomas for a plan regarding item b) above, i.e. for when we can expect to update the BRS and when the transition period is expected to be.

8.6   Continue review of update of NBS BRS for Master Data

Reply from Tuomas regarding replacement of "**Z05** Trader" with "**A47** Energy Trader" in the BRS for Master Data:

1. NEG Area Specification Document
   - Implemented and ready
   - Not in active use
2. Ediel Request Trade Structure Document
   - We have implemented and ready the CIM version: *RequestTradeStructure_MarketDocument*, but I'm unsure if there is any difference
   - Not in active use
3. Ediel Notify Trade Structure Document
   - We have implemented and ready the CIM version: *NotifyTradeStructure_TimeSeries*, but I'm unsure if there is any difference
   - Not in active use
4. NEG Party Master Data Document
   - Actively in use
5. NEG Resource Object Master Data Document
   - Actively in use

So, I would say that the documents could be updated, but we need to also implement the changes in eSett.

A final review (?) will be done at the next face-to-face meeting.

Action:

- Ove will update the NBS BRS for Master Data with the conclusions from the review.

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 NMEGs help in making the needed CIM based xml schemas.

References (links):   None.

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

Jan (SE) informed has sent a request to the project for updating the documents to CIM including usage of existing CIM elements instead of the new proposed elements from the project, however without any response yet.

10   Common European Area project

Background: ebIX® has proposed a project plan for a common European Area project. ebIX®, ENTSO-E (CIM WG) and ENTSOG 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.

Currently we have the following confirmed participants in the common European energy market "Alignment of master data for areas" project:

Name	Company	Representing	Comment	Status
Douglas Hill	ENTSOG	ENTSOG	Observer	Have a user group meeting that day.
Gerrit Fokkema (Convenor)	EDSN	ebIX®		Accepted
Jan Owe	Svenska kraftnät	ebIX® or ENTSO-E	Observer	Tentative
Joachim (Joe) Schlegel	Westnetz		Observer	On holiday at this date.
Jon Egil Nordvik	Statnett	ENTSO-E		Accepted
Kees Sparreboom	TenneT	ebIX® or ENTSO-E		Accepted
Ove Nesvik (Secretary)	Edisys	ebIX®		Accepted
Pamina Samarasuriya	Energinet	Energinet	Observer	Accepted
-	-	EU DSO Entity		No EU DSO Entity members have time to participate.

There is a kick off in mid-February.

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 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.

During this item it was agreed sending a MR for addition of a version number in the class diagram in ESMP.

Action:

- Ove will make a MR for addition of a version number in the class diagram in ESMP and send it to Jon-Egil for submission to CIM WG.

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   Issues related to update of Energinet (DataHub) CIM model with Accounting Point and Exchange Point – To be discussed at next physical NMEG meeting

The diagram below is meant as a basis for discussion related to the consequences of replacing MarketEvaluationPoint with AccountingPoint and ExchangePoint:
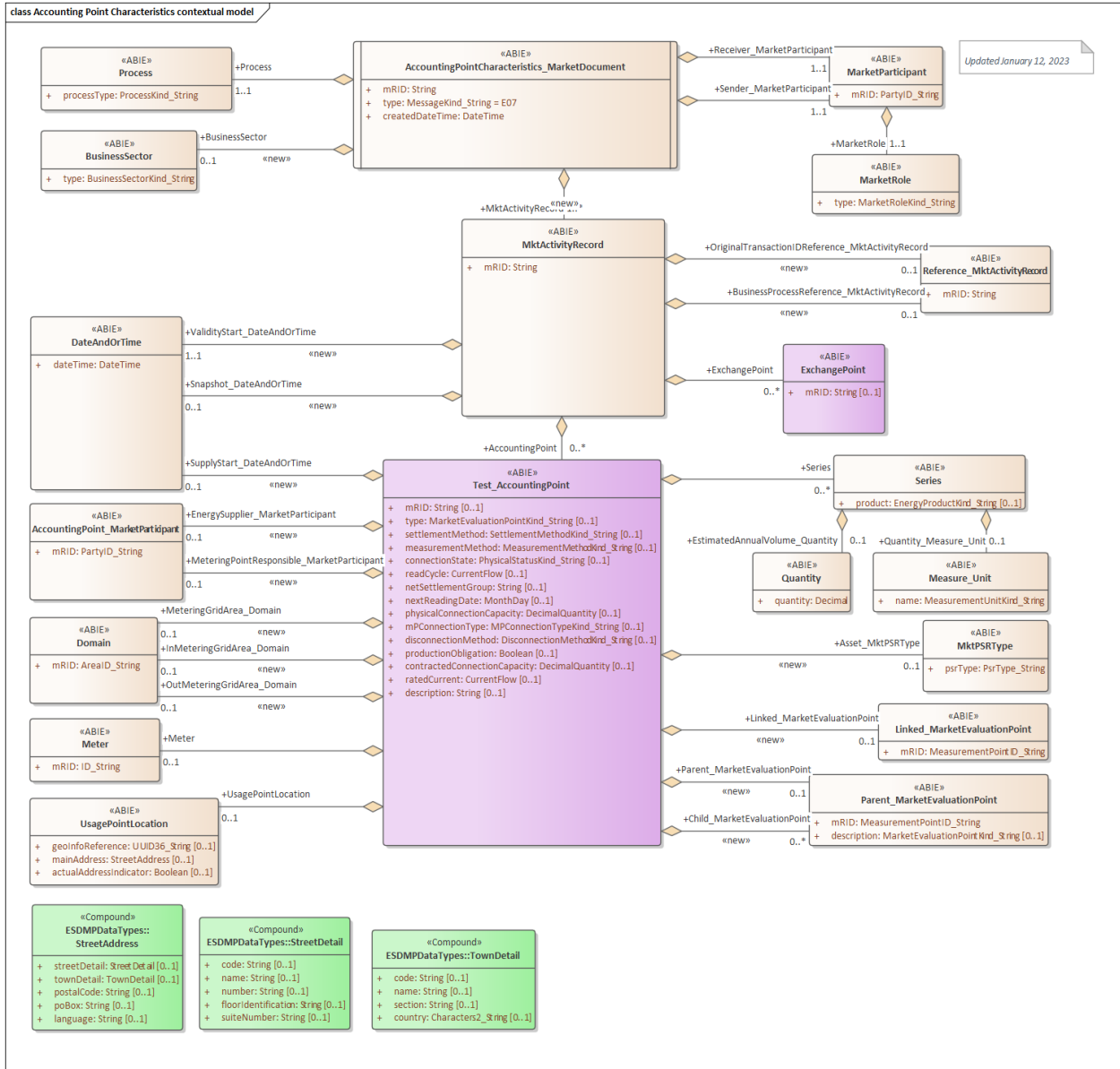
12.2 Report from NMEG CIM-XML Subgroup; Teams meeting January 11th, 2023

Participants: Jan (DK), Jan (SE) and Ove.

Next meeting: Thursday January 19th, 10:30 – 11:00.

The meeting started with an issue from previous NMEG meeting:
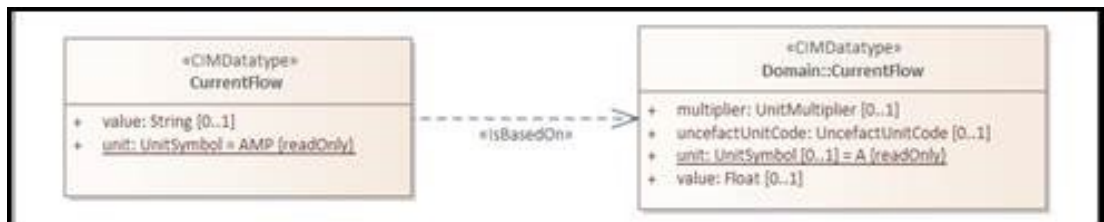
- The following figure is taken from the ESDMP model made for the Danish DataHub:

- o Jan (SE) noted during the WG16 meeting in Minnesota that it is not allowed to change the data type from "Float" to "String". Whether you can change "Float" to "Decimal" is unclear and should be checked. One may limit the data types, but not expand them. E.g., "Float" (or "Decimal") could become an "Integer". Then it should probably be a qualifier for your own data type.

- o Ove informed that the class diagram is taken from the ESDMP model we made in NMEG CIM xml Subgroup, and it appears that it is used in Denmark, e.g. for ratedCurrent.

- o Shall we do anything about it?

Action:

- o Jan (SE) will make an MR (ebIX® 2022/016) and ask ETC to send it to the ENTSO-E Retail market TF to add a new datatype to ESMP, ESMP_CurrentFlow where value is of type Float and unit is of type AMP, (both are meeting Wednesday January 18th).

- o If agreed in ENTSO-E Retail market TF, we change the datatype of ESDMPDataTypes/CurrentFlow/value from String to Float in the Nordic CIM model.

Thereafter, the status column in "Memo - MRs to CIM based on Danish DataHub CIM implementation 20220927.docx" was review and updated. The following actions and conclusions were agreed:

Action:

- • Ove will make a proposal for how the AccountingPoint characteristic document will look like when using AccountingPoint and ExchangePoint classes as specialisations of MarketEvaluationPoint. To be discussed to next physical NMEG meeting.

- • Ove will rename meteringMethod for to measurementMethod in the Danish CIM model.

Conclusion:

- • administrativeStatus must be moved from MarketEvaluationPoint to AccountingPoint if we go for adding AP and EP to the Danish CIM model.

- • Christian and Jan (DK) think Administrative Status (**E32** Active / **E33** Inactive) can be used instead of the attribute "hasEnergySupplier". Use requires inclusion new classes for AP and EP.

At the next meeting Thursday January 19th we will continue the review of "Memo - MRs to CIM based on Danish DataHub CIM implementation 20230111.docx" – Starting at row 25.

If time we will start on making CIM versions of the NBS documents.

12.3   Report from NMEG CIM-XML Subgroup; Teams meeting January 19th, 2023

Participants: Jan (DK), Jan (SE) and Ove.

The action items from previous meeting were reviewed:

- Jan (SE) had made a MR (ebIX® 2022/016) and ask ETC to send it to the ENTSO-E Retail market TF to add a new datatype to ESMP, ESMP_CurrentFlow where value is of type Float and unit is of type AMP, (both are meeting Wednesday January 18th). The MR is expected to be reviewed in ENTSO-E Retail market TF February 16th.

- Ove had made a proposal for how the AccountingPoint characteristic document will look like when using AccountingPoint and ExchangePoint classes as specialisations of MarketEvaluationPoint. To be discussed to next physical NMEG meeting.

- Ove had renamed meteringMethod for to measurementMethod in the Danish CIM model

The rest of the "Memo - MRs to CIM based on Danish DataHub CIM implementation 20230111.docx" were reviewed.

Action:

- Jan (SE) and Ove will try to get ETC to prioritise the MR Add an association from MarketEvaluationPoint to MktPSRType

    Action:

    o   Jan (SE) and Ove will try to get ETC to prioritise the MR ebIX® 2023/019 (Add an association from MarketEvaluationPoint to MktPSRType).

    o   Jan (SE) and Ove will ask EBG to make a MR for linking the Meter ID to MarketEvaluationPoint (the association is already part of basic CIM).

At the next meeting, Wednesday January 25th, 10:00 – 11:30, we will start making CIM documents for NBS.

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

Nothing to be discussed.

15 Information (if any)

Pamina informed that she has changed position in Energinet, hence she will not be participating much in the future.

Jon-Egil informed that there is an ongoing replanning of the NBM projects (and other projects) in Statnett, however this will not affect the NMEG work.

16 Next meetings

- Wednesday February 22nd and Thursday February 23rd, Sundbyberg
- Tuesday April 11th 10:00 – 12:00 + 13:00- 15:00, GoToMeeting
- Wednesday June 14th and Thursday June 15th, Helsinki

17 AOB

No items.

Appendix A   Overview of Nordic memberships in international standardisation bodies

Name	Member of
Anders (SE)	CGMES, ESMP
Anne Stine	NMEG, ebIX®
Bertil (SE)	EBG
Christian	NMEG, ebIX® observer (?)
Fedder	NMEG, CIM WG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO
Jan (SE)	NMEG, HG, ebIX®, IEC/WG16+14, ESMP, TFD
Jon-Egil	NMEG, CIM WG, IEC/WG16, ESMP, CCC, CIO/LIO, TPC, TFD
Martin (SE)	CCC
Miika	CIM WG, NEX
Moustafa (SE)	CGMES
Oscar	CIO/LIO, ebIX®, CIM WG
Ove	NMEG, HG, ebIX®, IEC/WG16
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)
NEX	Nordic ECP/EDX Group
TFD	ENTSO-E Task Force Data Interoperability and Access,
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)

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[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**

Appendix C   BRS for Nordic Trading System: Mismatch between the sequence diagram and the sender/receiver roles in the Business Data View

Documentation	Arrow	Between	Sender/receiver in the Business Data View	Update of BRS
Currency Exchange Rate Document v2.0	7.6 Currency Exchange Rate	Data Provider -> Market Operator	*Sender:* **A11** Market operator **A05** Imbalance Settlement Responsible *Receiver:* **A05** Imbalance Settlement Responsible **A08** Balance responsible party **A46** Balancing Service Provider **A47** Energy Trader (Used for non-balance responsible traders) **A48** LFC Operator (replaces A04 System Operator)	Remove **A11** Add **A39** Data Provider as sender
	7.7 Currency Exchange Rate	Data Provider -> LFC Operator		
IEC/CIM Area Configuration Document	1.0 Area Specification	LFC Operator -> BSP	*Sender:* **A11** Market operator **A34** Reserve Allocator **A48** LFC Operator (replaces A04 System Operator) *Receiver:* **A08** Balance responsible party **A11** Market operator **A46** Balancing Service Provider **A47** Energy Trader	No one (TSOs, eSETT, NRCC, Market Operator, NEMO, …) uses the Area Configuration Market Document for the time being but we would like to keep the document for future use. The information can currently be downloaded from the eSett web site, see https://opendata.esett.com/mga. Remove the document from the sequence diagram but keep the document in the data view with a comment that it is currently not used but expected to be in the future.
	2.0 Area specification	Reserve Allocator -> BSP		
IEC/CIM Ediel Capacity Auction Specification Document	1.1 Auction Specification	LFC Operator -> BSP	*Sender:* **A11** Market operator **A34** Reserve Allocator *Receiver:* **A08** Balance responsible party **A46** Balancing Service Provider	Replace **A11** with **A48** LFC Operator
	3.0 Auction specification	LFC Operator -> BSP		
	2.1 Auction specification	Reserve Allocator -> BSP		
IEC/CIM Reserve Bid Document	1.2 aFRR bids	BSP -> LFC Operator		
	2.2 mFRR CM bids	BSP -> Reserve Allocator		

Documentation	Arrow	Between	Sender/receiver in the Business Data View	Update of BRS
	3.1 Frequency activated reserves bids	BSP -> LFC Operator	*Sender:* **A04** System Operator **A08** Balance responsible party **A39** Data Provider **A46** Balancing Service Provider *Receiver:* **A11** Market operator (TSOs) **A34** Reserve Allocator **A35** Merit Order List (MOL) Responsible (NOIS)	Add **A48** LFC Operator as sender and add a comment that the SO is changed to LFC Operator Add **A48** LFC Operator, Market Information Aggregator as receiver Remove MO as receiver
	3.4 Frequency activated reserves summary	LFC Operator -> Market Information Aggregator		
	4.0 mFRR EAM bids	BSP -> LFC Operator		
	4.1 mFRR EAM bids (offer and need)	LFC Operator -> MOL Responsible		
IEC/CIM Bid availability document (ERRP)	4.2 Bid availability document	LFC Operator -> BSP	*Sender:* **A04** System Operator *Receiver:* **A46** Balancing Service Provider	Add **A48** LFC Operator as sender
IEC/CIM Reserve Allocation Result Document (ERRP)	1.3 aFRR contracts	LFC Operator BSP	*Sender:* **A04** System Operator **A11** Market operator (TSO) **A34** Reserve Allocator *Receiver:* **A08** Balance responsible party **A11** Market operator (NOIS) **A46** Balancing Service Provider **A48** LFC Operator (replaces A04 System Operator)	Add **A48** LFC Operator as sender Remove MO as sender receiver
	2.3 mFRR CM contracts	Reserve Allocator -> BSP		
	3.3 Frequency activated reserves contracts	LFC Operator -> LFC Operator		