Minutes: NMEG meeting **Date:** Tuesday January 9th and Wednesday January 10th, 2024 **Time:** 09:00 – 16:00 (17:00?) and 09:00 15:30 **Place:** Svenska kraftnät's offices in Sundbyberg (Stockholm)	**NMEG** Nordic Market Expert Group
January 15th, 2024	

Present:
Bent Atle, NBM/Svenska kraftnät (day 1)
Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (Convenor)
Mario, Elhub
Ove, Edisys (Secretary)
Teemu H, Fingrid
Tuomas P, eSett, FI (during item 15.2, 15.3, 15.6 and 15.8)

Rasmus, Energinet (during NEAT session, item 9)
Anders, Statnett (during NEAT session, item 9)

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)
Teemu H, Fingrid

CC:
Bent Atle, NBM/Svenska kraftnät
Fedder, Energinet
Fredrik, Fingrid
Hans Erik, Elhub
Mario, Elhub
Pamina, Energinet
Tage, Energinet
Teemu K, Finish datahub

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

Appendix A: Class diagrams from NTC meeting December 18th
Appendix B: Overview of Nordic memberships in international standardisation bodies
Appendix C: 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 NBS data flow for "delivered reserves" related to the independent aggregator model, see item 15.8

- Editorial correction in Nordic Operate BRS, see item 15.9
- ERRP Planned Resource Schedule Document for Svenska kraftnät, see item 15.7.
- Outage plans from DSO and SGU (Significant Grid User) from Svenska kraftnät, see item 15.10
- Using our own code lists, but still base the data type on CIM (from Jan (SE)), see item 24.1 under AOB
- Overview of standardisation bodies, see item 24.2 under AOB

During this item, Ove informed that Teemu Kokki from the Finish datahub had been added to the NMEG and NTC mailing lists.

Prioritised items:

1) 12.1 NMEG CIM master data documents for NBM based on NBS master data documents
2) 15.1 Exchange of settlement information between the Nordic TSOs – prioritised item
3) 19.1 CIM for NBS

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 for NMEG.

The DSO Entity has agreed to take over the ebIX® deliverables. The handover process is expected to be carried out during the first half of 2024.

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 NMEG recommendation for usage of ECP

The NEX group is the one who have the knowledge and the one to making the first draft of an ECP recommendation.

Continued action:

- NMEG will follow up on NEX.

7 Message for control of load in a Metering Point (to remember item from Fingrid)

Background: This is a "to remember item" from Fingrid/the Finnish datahub.
References (links):
What to decide, discuss or inform: Status for the project.

The item was postponed.

8 Ediel.org Mysql issue

Background: www.ediel.org was down for some hours in July and it seems like the issue was around Mysql. The Mysql user we were using was deleted since it was stored under an old domain - 96873_edieltest - (edieltest.org).
www.ediel.org is working now, but we should setup a new Mysql directly under the Ediel.org domain and move the tables/data from the old DB over to www.ediel.org.
References (links):
What to decide, discuss or inform: Status for moving Mysql to www.ediel.org.

Continued action:

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

9 NEAT contribution to NMEG ECP strategic themes, Wednesday January 10th, 13:00-14:00

During this item Rasmus from Energinet and Anders for Statnett participated via Teams.

Jon-Egil presented the related part of the NMEG roadmap.

From discussion:

- We need a stable ECP network with a stable underlaying communication platform between the Nordic TSOs.
- It must be decided which business applications and which parties (TSOs and or external actors) shall be able to use the platform.
- NIT has so far approved the short-term establishment of a secure communication platform and the establishment of short term ECP requirements. However we will also have to investigate some longterm solutions.
- NEAT is working with a "Nordic IT landscape".
- We need to cooperate with NDS (a security group under NIT) and RGN (Regional Group Nordic).
- NEAT and NMEG should have regular status meetings, e.g. monthly.
- Jon-Egil mentioned that an alternative is having a separate infrastructure as a backup, however there are some issues with this alternative also. To be investigated.

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.

10 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.

10.1 How to handle the new strategic action: “Establish new ECP requirements”?

From the NMEG roadmap:

> NMEG will establish new ECP requirements to be sure that ECP will be compliant with the future TSO needs.

It is NEX responsibility to do the work. NMEG will follow up and supervise.

Continued action:

- Jon-Egil will follow up on NEX.

10.2 How to handle the new strategic action: “Establish a secure Nordic Communication platform”?

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.

It is NEX responsibility to do the work. NMEG will follow up and supervise.

Action:

- Jon-Egil will follow up on NEX.

11 Nordic RCC

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

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.

The item was postponed.

12 Support to the NBM project

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.

12.1 NMEG CIM master data documents for NBM based on NBS master data documents

Status for circulation of comments to NBM/Fifty/Unicorn for new CIM based master data documents for Portfolio master data document, Resource master data document and Party master data document.

Ove had as action made the association from Aggregated_RegisteredResource to RegisteredResource red and stereotyped it "new".

It was agreed to publish this memo at www.ediel.org under common documents, under a new block called "draft documents".

There was a short discussion if we can merge the NBM and NBS master data specifications into one NMEG master data BRS.

Continued and new 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 investigate if there are parts of the NBS master data specifications that are missing in the new memo "CIM master data documents".
- Ove will publish the memo "NMEG CIM master data documents" at www.ediel.org under common documents, under a new block called "draft documents".

12.2 Status for new document for FCR (Reserve) Bid Document (Update of BRS for Nordic trading system)

Ove had as action updated the BRS for Nordic trading system, among others the following parts are updated:

- Added **Z02** and **Z03** codes to the FCR (Reserve) Bid Document in the Trade BRS. Only used together with process type **A52.**
- Added the Balancing Document to the Trade BRS, including the **Z02** and **Z03** codes (see NBM FCR IG and/or SE Ediel-anvisning för FCR...) .
- Updated chapter "2.3 Overview of information exchange for operational market" and "2.4.3 2.4.3 Frequency activated reserves market (FCR)".
- Update chapter "3 HEMRM".
- Added a proposal for description of the Process area "Trade on Frequency activated reserves market (FCR)".

It was started on a review of the updates, but there was not enough time to finalise it. The review will continue at the next NMEG meeting.

Comment/question from Bent-Atle:

Ref. FCR Guide to Nordic FCR CM:

I suggest that we remove the binding to FCR-D for the codes **Z02** and **Z03**, since I believe we can get such reserves also for other processes, such as aFRR, mFRR.... or?

standard_MarketProduct.marketProductType	D	Only relevant for FCR-D **Z02** - Dynamic product **Z03** - Static product If the element is not present, it is considered as **Z02**.

The code list was updated, i.e. the codes were made generic, i.e. not bound to FCR-D. In addition, the current text was updated based on a proposal from Johan Tufvesson, Svenska kraftnät, and used as example.

Action:

- Ove will publish the updated NMEG code list.

13 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 CIM/Market 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 ***20230222*:** • Ongoing ***20230411, 20230830, 20231101, 20231205 and 20240110*:** • Ongoing
NMEG 2023/210 (CIM WG)	Extended FinancialSettlementReport (FSKAR) (addition of a Price class).	***20231101:*** • ***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. ***20240110*:** • Ongoing

MR #		Status
NMEG 2023/211 (CIM WG)	Addition of quality flag in Point class in Reserve Bid Market Document	***20231204:*** • Forwarded by Ove to Jon-Egil for submission to CIM WG ***20240110*:** • Agreed in CIM WG • Item closed

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

The item was postponed.

15 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.

15.1 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".

At this meeting we will review the draft NMEG BRS for TSO-TSO settlement.

Discussion topic from Bent Atle:

- I am missing the actual settlement process in the TSO-TSO BRS, i.e. how to use the data that is exchanged to the counterpart?

  Conclusion from meeting December 5th:

  - Will be a main item at our next meeting in January in Sundbyberg

  Action from meeting January 9th:

  - Jan (SE) will try finding some documentation at SvK that can be used as basis for a more detailed description in the BRS

- Should we replace the ERRP Reserve allocation result document with the ESS Schedule market document?
  From Bent Atle:

  Within NBM we exchange the Planned Flow Agreed Supportive Power TSO (using Schedule Market Document) between the Nordic countries. In the NMEG TSO-TSO Settlement BRS we use:

1.5	Agreed supportive power	ERRP Reserve allocation result document based on IEC62325-351, see chapter 4.3

  In the ERRP Reserve allocation result document, it is not possible to see who ordered the ASP (agreed supportive power), we have predicted that from for example HVDC. It indicates who is in trouble...

  In today's mFRR EAM we use Schedule market document for Planned Flow ASP, it is implemented by HVDC. That means we must build a converter again.

  Are these data exchanges something that is in use today?

  I have to say I like the use Schedule market document - the idea is to also link activations to this. Then it can internally follow existing logic.

  + that when we have flow direction - using negative values is not optimal.

  Henrik asked why we are using the FSKAR document and not the EAR. The EAR is used in other similar Danish exchanges to countries like the Netherlands. The answer is that the EAR is more limited and that the FSKAR documents are newer and meant for this purpose.

  Conclusion from NMEG meeting December 5th:

  - For the time being we will not add the ESS Schedule Market Document. However, we will continue the discussion at our next NMEG meeting in Sundbyberg.

  Action from NMEG meeting December 5th:

  - All are asked to investigate if we should add the ESS Schedule Market Document to the TSO-TSO settlement BRS, among others used for mFRR EAM by NBM.

Conclusion from meeting 20240109:

- It was agreed to continue using the ERRP Reserve Allocation Result Document
- The BRS was slightly updated

Discussion topic from Jan (SE):

- Is it possible to send all exchanges between TSOs in one settlement report?

  In the BRS document, the ASP (Agreed Supportive Power) was listed in a separate report. This has been discussed in a Swedish meeting where it was agreed that they would like to have everything in one and the same settlement report.

  Jan (SE) thinks there are advantages to having a separate message, but he hasn't had time to look at this in detail yet.

  Conclusion from NMEG meeting December 5th:

  - The issue was postponed to our next NMEG meeting in Sundbyberg.

  Conclusion from NMEG meeting January 9th:

- We use both the FSKAR and the ERRP Reserve Allocation Result Document because there are different attributes needed for the different exchanges.

Action:

- Ove will list the differences between the FSKAR and the ERRP Reserve Allocation Result Document.

Discussion topic from Jan (SE) December 8th:

We (Svenska kraftnät) will now give our integration people the task of doing the programming of conversion to/from the new formats. XML schemas can be downloaded from ENTSO-E, however not for the "Financial settlement report" (FSKAR) where we have added the Price class. We should therefore, for example during our January meeting, develop an XML schema that can be used by the respective TSOs, since we cannot take ENTSO-E's.

And Jon-Egil might bring up internally at Statnett that we should send two measurement series (in and out) explicitly for each Metering Point and not four series for one and the same "Accounting Point"/"Exchange Point".

Action:

- Ove will make the Nordic extended FSKAR xsd.

15.2 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.***

At the meeting December 4th, 2023, it was proposed to remove the note. However a similar note is connected to ~~**A12**~~ **A15** and in addition Jan (SE) has informed that there can be negative values after Sweden went from hourly values to 15 minutes values. Hence, we will have a discussion at our next NMEG if we should open for negative values in more places.

Ove had as action asked Tuomas for eSett point of view related to negative values in general and especially for **A07**, **A12** and as result of going from hourly values to 15 minutes values with the following response:

> *I suppose that instead of **A12** you have meant to use "**A15** Losses". For losses, the signed values are relevant since there is a lot of metered data that is not yet in 15-minute resolution, so the losses are calculated from a mix of hourly and 15 min data.*
>
> *For **A07** you may remove the sentence from our point of view.*

The comment was removed for **A07** and kept for **A15**.

The update BRS will be published after one week of commenting.

Action:

- Ove will send the NBS BRS on circulation for comments for one week before publishing it.

Item closed.

15.3 Update requests to NBS BRS documents

The item was postponed.

15.4 Status for new Nordic extended Schedule Outage Market Document

The item was postponed.

15.5 Update of NMEG code list

Ove had as action from previous meeting updated and published the NMEG code list, ref. item 11 from previous meeting minutes.

Ove had as homework asked Stein Ole if the Business Type code "**Z76** Day ahead prices used for CZC forecast calculation" still is relevant. However, Stein-Ole informed that he no longer knows the relevance of the z code. According to the "BSP - Implementation Guide for Nordic MMS - mFRR capacity market", reserved CZC is exchanged from Nordic MMS to the TSOs and RSC (NOIS), see figure 2 on page 8.

Shall we keep the code?

If yes, can we find a better description of the Business type code:

Code	Name	Description
Z76	Day ahead prices used for CZC forecast calculation	Day ahead prices used for Cross Zonal Capacity forecast calculation

(**CZC** = Cross Zonal Capacity = The cross-zonal transmission capacity between two bidding zones.)

15.6 Ediel ERRP Reserve Allocation Result Document in NBS BRS for TSO-MO

Ove had as action verified with Tuomas if the update of the dependency table related to Reason codes **Z77** and **Z78** in the Ediel ERRP Reserve Allocation Result Document in NBS BRS for TSO-MO is OK before publication with the following response:

> *These are OK.*
>
> *We actually spotted these new reason codes, and we have an ongoing development so that we can support the new reason codes from their go live. Luckily, this has been an active topic also in another TSO group where we participate.*

Item closed.

15.7 ERRP Planned Resource Schedule Document for Svenska kraftnät

From Jan (SE) December 15th, 2023:

> I would like new actors in Sweden not to be required to use DELFOR when submitting plans to Svenska kraftnät. So, at some point next year, I would like to make it possible to use some XML-messages.
>
> For resources (regulation objects), it will be ERRP Planned Resource Schedule Document, as described in chapter 6.2 in https://ediel.org/wp-content/uploads/2023/06/BRS-for-Nordic-Scheduling-and-Ancillary-Services-Processes-v3r3A-20230626.pdf

But the actors (soon to become) Balancing Service Providers are also using DELFOR for plans related to aFRR and FCR. For aFRR they are (if we have taken their aFRR offer) submitting:

"Planerad aFRR-balanskapacitet (sammanlagd effekt (MW) per elområde)."

And also separated into:

aFRR plans upregulation or aFRR plans downregulation.

Similar for FCR where the actors submit:

Planned FCR-N per bidding zone.
Planned FCR-D, up, per bidding zone.
Planned FCR-D, down, per bidding zone.

The plans are sent between the time a bid for the market was accepted, until 45 minutes before activation, when something in the plan is changed. So sometimes only one plan is provided.

But which message to use? Since it is not plans per resources, ERRP Planned Resource Schedule Document, does not sound relevant. Another "schedule document" with timeseries specifying a domain, a business type and a direction would at least be needed. But the "Schedule_MarketDocument" in ESMP does not have direction.

Are you sending something like this in your countries? But perhaps then not using an XML message?

Without having, yet, found a more relevant document to use, the ERRP Planned Resource Schedule Document may anyhow be used.

From Bent Atle:

I see in our NBM Work, we selected to use *Planned Resource Schedule Document* for FCR and aFRR between TSOs. If I understand you correct, you are focusing on the wording resource. My thought is that regardless of who is providing it, it is still a resource.

When it comes to providing information about registeredResource, it is optional and not required, hence I see no problem using *Planned Resource Schedule Document*.

Conclusion:

- The ERRP *Planned Resource Schedule Document* is already described in the Schedule BRS
- Business types **A10** and **A12** were changed to **A95** and **A96**.

Action:

- Ove will ask Henrik 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.

Item closed.

15.8 New NBS data flow for "delivered reserves" related to the independent aggregator model

From Tuomas:

eSett has drafted a new data flow for "delivered reserves" which is related to the independent aggregator model. So far, we have reviewed it with business experts from TSOs to ensure that the drafted contents meet with the business requirements. However, we need also support from NMEG to review the plan and help with the problematic parts.

The new data flow is based on CIM format, and we have selected "Activation_MarketDocument" as a basis for it as it would appear to be the most appropriate schema here.

You can find the latest draft from the attached Excel from the sheet called “DERI”.

The proposed description of the subset of the Activation_MarketDocument was reviewed, and a few changes were proposed/agreed:

- We skip the markets (“**A28** Primary reserve process”, “**A29** Secondary reserve process” and “**A30** Tertiary reserve process”) in the process type. Instead we always send:

  A16 Realised

- We add three new Reason codes to the NMEG code list:

Z84	Activation of own resources	The activation relates to the BSPs own BRP. No compensation applies.
Z85	Activation of contracted resources (no compensation)	The activation relates to a contractual activation, e.g. based on a bilateral contract between a BSP and a BRP. No compensation applies.
Z86	Independent aggregation	The activation relates to an independent aggregator, i.e. is split between two or more BRPs, Energy Suppliers and or Traders. Compensation applies.

- We use only one Business type, i.e. “**A23** Balance management (A time series concerning energy balancing services).

Action:

- Ove will add three new Reason codes to the NMEG code list, distribute it to NMEG for one week of commenting before publication.
- Ove will make an extended Activation Market Document where there is an association from the TimeSeries to MarketParticipant named RelatedRole_MarketParticipant and make a MR for it.
- Ove will make a proposal for addition of the Activation Market Document into the NBS BRS for review at our next NMEG meeting, including rename of Balance Supplier to Energy Supplier.
- Tuomas will make a detailed description how to handle the “**A73** Delta (used for reporting misdelivered quantity, where correction applies to a BRP instead of the BSP)” code used in the Reserve Object Status attribute in the Activation Market Document.

15.9 Editorial correction in Nordic Operate BRS

Ove had found two spelling errors in the Nordic Operate BRS:

a) **5.6.4** Dependency matrix for ~~ERRP Activation~~ Balancing Market Document

b) **Table 9:** Dependency matrix for Balancing Market ~~ERRP Activation~~ Document (CIM version)

Action:

- Ove will publish the updated BRS.

Item closed.

15.10 Outage plans from DSO and SGU (Significant Grid User) from Svenska kraftnät

From a lady at Svenska kraftnät:

We are working on starting to collect outage plans from DSO and SGU (Significant Grid User). I could use some help on how to develop a CIM XML schedule for an outage plan that DSO+SGU can use as a basis for their work to send outage plans in CIM format to us.

I understand that we need to use a combination of grid and market, and that we may be able to use ENTSO-e to make a slightly more "official" template. ...

Conclusion:

- Jan (SE) will discuss options with the lady from SvK, including usage of the CIM based Outage Market Document and the NOIS proposal for an extended Nordic Outage Market Document.
- Next step could be arranging an NTC meeting to investigate a mapping of the SvK requirements to the CIM Outage Market Document. If so, Jan (SE) will inform NMEG (NTC).

Item closed.

16 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).

No news reported.

17 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.

Awaiting JWG

18 XML schemas

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

19 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.

19.1 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.

19.2 Brief report from NTC meeting December 18th

Participants: Christian, Jan (DK), Jan (SE), Teemu Hiekka, Teemu Kokki, Ove, Mario

Mario had as distributed three class diagrams as basis for the meting; EIM (Elhub Information Model) Grid Model (see 0/A.1), EIM Paty (see 0/A.3) and EIM PartyTypes and BusinessRoles (see 0/A.5). During the meeting it was tried to map these class diagram to CIM.

The mapping of the EIM Grid Model (see 0/A.1) is shown in 0/A.2. Some comments to the EIM Grid Model class diagram:

- GridArea class:
  - "masteredBy" is used for the party responsible for the grid area.
  - "foreign" is a Boolean (yes/no) used for exchange points where one of the connected areas is in a different country.
  - "reportToNBS" is a Boolean (yes/no) similar to "settled", but there are some differences
  - "settled" is a Boolean (yes/no) used for grid areas that is not settled, such as for foreign grid areas.
  - "status" is used new, active, inactive, terminated
  - "noLoss" is a Boolean (yes/no) used for grid areas without losses, such as micro grids

Conclusion:

- It seems difficult to map the EIM Grid Model to the current CIM. Alternatives could be:
  - Awaiting the European area project proposed by ebIX® and currently awaiting a discussion and approval in JWG.
  - Look into the IEC Common Grid Model (CGM), see https://www.entsoe.eu/data/cim/cim-for-grid-models-exchange/.

The mapping of the EIM Party (see 0/A.3) is shown in 0/A.4. Some comments to the EIM Grid Model class diagram:

- Elhub EIM Party:
  - Party class:
    - "masteredBy" is a Boolean (yes/no) used for parties taken from the Ediel register.
  - PartyFunction:
    - "status" is probably a Boolean stating active or inactive

Conclusion:

- Also the EIM Party class diagram is difficult to map to the current CIM.

The Elhub EIM PartyTypes and BusinessRoles class diagram is shown in 0/A.5. Som comments to the EIM Grid Model class diagram:

- Many of these roles can be found I the Harmonised Electricity Market Role Model. However, these roles cannot be found CIM. These roles are enumerations in the "type" attribute in the MarketRole class in CIM.

The main conclusion is that the Elhub information model is difficult to map to CIM and that it will be a long-term process updating CIM to fit the EIM. What probably is easier is Mapping the Elhub messages to CIM, like what is done for the Danish DataHub.

The discussions will be continued at our next NMEG meeting in Stockholm).

19.3 CIM for Elhub

At the NTC meeting December 18th, 2023, see above, NTC investigated mapping of the "Elhub Information Model" (EIM) to CIM. The conclusion was that It seems difficult to map the EIM Grid Model or the EIM Party model to the current CIM, at least based on the market part of CIM.

During this NMEG meeting it was discussed how to continue and the following alternatives suggested:

a) Making a generic CIM model for datahubs that covers as much as possible of the "Elhub grid model" and the "Elhub party model", and similar models from the other Nordic datahubs. This should probably be based on the Grid and/or Support packages in CIM instead of Market.

b) Making common Nordic (Danish, Finnish and Norwegian) cim documents for external data exchange. Starting with measure data, which will be implemented in the Danish DataHub version 3 by the end of 2024.

It was decided to start on alternative b) in a NTC meeting January 22nd, 10:00 – 12:00.

20 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.

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 February 5th, 10:00 – 15:00, GoToMeeting
- Wednesday February 28th and Thursday February 29th at Fingrid's offices in Helsinki

NMEG CIM XML subgroup:

- Monday January 22nd, 10:00 – 12:00.

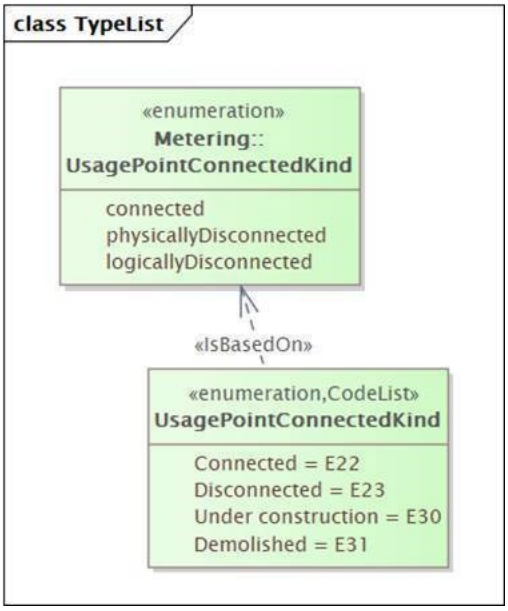
24 AOB

24.1 Using our own code lists, but still base the data type on CIM (from Jan (SE))

This is an information item.

From Jan (SE):

Jan (SE) has asked Jean Luc from Zamiren (developer of CIMContextor CIMSyntaxGen) if it is possible to reference a European code list when the datatype is referencing an existing enumeration In basic CIM, e.g. like the following figure:



When Jan (SE) tired he ended up getting the following XSD:

…

```
<xs:simpleType name="UsagePointConnectedKind"
sawsdl:modelReference="http://iec.ch/TC57/CIM101#UsagePointConnectedKind">
  <xs:restriction base="xs:string">
   <xs:enumeration value="E22">
    <xs:annotation>
     <xs:documentation cimp:category="enumValue">Connected</xs:documentation>
    </xs:annotation>
   </xs:enumeration>
   <xs:enumeration value="E23">
    <xs:annotation>
```

…

But I would rather like to have it like this

```
<xs:simpleType name="UsagePointConnectedKind"
sawsdl:modelReference="http://iec.ch/TC57/CIM101#UsagePointConnectedKind">
  <xs:restriction base="ecl:UsagePointConnectedKind" />
</xs:simpleType>
```

I.e. not having the codes (enumerations) in the XSD, but in the file urn-entsoe-eu-wgedi-codelists.xsd, where it could look like this:

```
<xsd:simpleType name="UsagePointConnectedKind">
  <xsd:union memberTypes="ecl:StandardUsagePointConnectedKind
ecl:LocalUsagePointConnectedKind" />
 </xsd:simpleType>
```

with the codes E22, E23…, further described like all other codes, including then the possibility to have local codes. And not having them explicitly in the XSD of the message like I got it today.

(Or if the ESMP enumeration should be called UsagePointConnectedTypeList and not UsagePointConnectedKind, but the latter name links it more specifically to what already is found in CIM.)

Response from Jean Luc:

There are several points to solve what you want.

In the XML NDR as it is, the stereotype “CodeList” ends with an XSD that gives the enumeration value with the code “E22….

To get what you want with an external code list means some changes in the XML NDR (thus in CimSyntaxGen too).

One way to do that is to add a new stereotype “ExtCodeList” whose mapping would lead to an external code list. To solve the possible difference of names for example having UsagePointConnectedTypeList and not UsagePoitConnectedKind, use a TaggedValue like ExtCodeList with the name of the given codelist (in your case UsagePointConnectedTypeList).

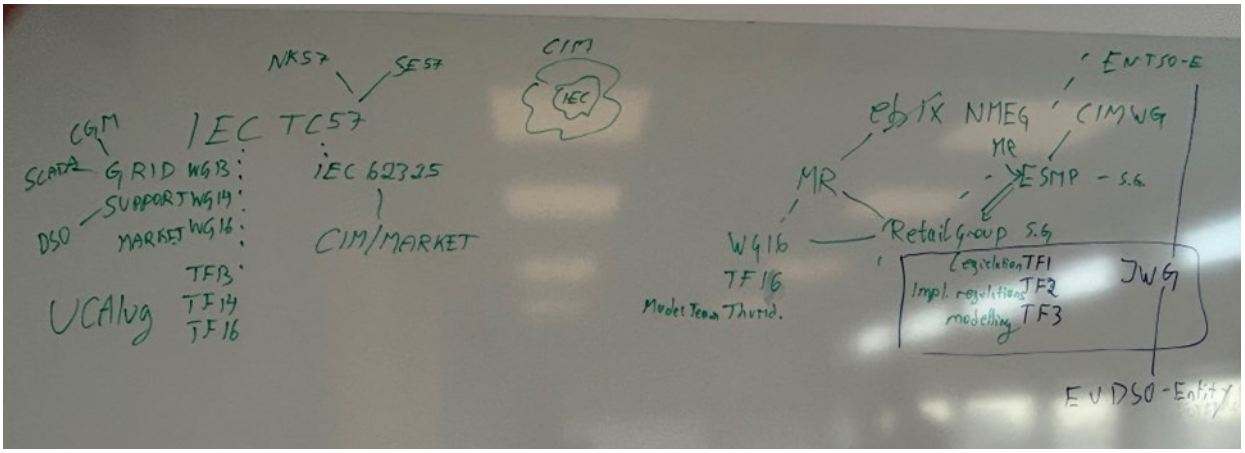
This mapping should be added in the XMLNDR and reflected in CimSyntaxGen

Item closed.

24.2 Overview of standardisation bodies

This is an information item.

Jan (SE) gave an overview of European and international standardisation bodies:



Jon-Egil presented a mail with related information from the ENTSO-E ICT Team:

Dear ICTC Members,
Dear StG ICT Strategy Members,
Dear All,

By the present communication, we are pleased to re-launch a **Call for nominations for experts** to the **Task Forces (TF) TF1, TF2 and TF3** of the **Joint Working Group on Data Interoperability and Access** (JWG) which constitutes a joint legal mandate of ENTSO-E and the EU DSO Entity. The experts will support the ongoing work in the TF1, TF2, and TF3 on the Implementing Regulations on Data Interoperability, will coordinate on Task Force level with the ENTSO-E members and will align with the **ICTC Working Group Data Interoperability and Access** (WG DIA) which supports the work of the Joint Working Group from ENTSO-E side.

You are kindly asked to nominate members for the Task Forces of the Joint Working Group who are currently not present.

Background

The ENTSO-E Board appointed the Information and Communication Technologies Committee (ICTC) on 05 October 2023 (p.5) as the leading Committee for the legal mandate on Data Interoperability and Access in cooperation with the DSO Entity taking over this previous responsibility from the Steering Group Transmission & Distribution Interface (StG T&DI).

This includes ENTSO-E's contribution to the development of the implementing acts on data interoperability pursuant to the Directive (EU) 2019/944, Art. 23 and 24. The first Implementing Regulation (EU) 2023/1162 of 6 June 2023 introduced a **new legal mandate for ENTSO-E** and DSO Entity. The Associations are requested to form a **Joint Working Group** (JWG) to support the implementation of this regulation, including the monitoring of national practices, and assist the European Commission with the development of new regulation in that area. This new legal mandate for ENTSO-E in coordination with the DSO Entity on data interoperability got acknowledged and supported by the Board on 9 June 2022 and got included in the ENTSO-E Annual Work Programme 2023 approved by the Board on 6 October 2022 and the Assembly on 27 October 2022.The ENTSO-E Board approved the Terms of Reference for the Joint Working Group on Data Interoperability and Access on 01 June 2023.

While the Task Force Data Interoperability and Access (TF DIA) reporting to the Steering Group Transmission & Distribution Interface (StG T&DI) on the legal mandate is currently being transitioned to become the ICTC Working Group Data Interoperability and Access (WG DIA), **additional members for the Task Forces of the Joint Working Group (JWG) are highly welcome to support the goals of the JWG.**

Scope of Task Forces TF1, TF2, and TF3 of the Joint Working Group (JWG)

- **TF1: Task Force for the Monitoring of the Implementation of the Implementing Regulations (MIR)**
    - Develop guidance to assist Member States in reporting national practices concerning access to metering data.
    - Collect and monitor national practices on the implementation of the reference models for this access.
- **TF2: Task Force for the Development of the Implementing Regulations foreseen in Article 24 of the Directive (EU) 2019/944 and Reference Models (DIR)**
    - Contributing to developing future implementing acts: customer switching [change of supplier], demand response, and other services.
- **TF3: Task Force for Data Interoperability Modelling (DIM)**
    - Keep a repository (roles, use cases and information objects) and ensure consistency of the reference models in the Implementing Acts.
    - Map the reference models to standard models and, when necessary, propose amendments, extensions, and profiles for these standard models.
    - Interact and collaborate with standardisation organisations.

Actions from Committees/LRG members

We invite the Committees/LRG members to advertise this call within their TSO and, if interested, nominate candidate(s) for the three Task Forces of the Joint Working Group.

Any TSO wishing to nominate a candidate should **send its nomination via email to the Convener of the Working Group Data Interoperability and Access Kalle Kukk (Kalle.Kukk@elering.ee) with a copy to Bhagyashree Wahie (bhagyashree.wahie@entsoe.eu) and Benedikt Stöfl (Benedikt.Stoefl@sec.entsoe.eu) by 16 January 2024, EOD.**

Requirements

Candidates are expected to contribute actively to the work of at least one of the Task Forces TF1, TF2 or TF3 supporting the Joint Working Group (JWG) on Data Interoperability and Access and report to the WG Data Interoperability and Access (WG DIA) on ENTSO-E side.

Candidates should come from TSOs and have knowledge/expertise on:

- the field of data interoperability;
- broad knowledge and experience of the TSO business and European markets and ability to understand links and interdependencies;
- understanding of the European political constraints of policy making and the positions of stakeholders from across the sector;
- excellent communication skills in English;
- **availability of the required time (0.1 FTE).**

ENTSO-E and the EU DSO Entity signed a Memorandum of Understanding (MoU) on their cooperation on 11 January 2022. This is accompanied by a non-disclosure agreement (NDA) signed by both associations to cover the exchange of confidential information between the DSO Entity and ENTSO-E. **Annex 2 of this NDA** was developed for the TSO and DSO companies to sign when they are involved in a joint workstream. This also includes the work in the JWG and the Task Forces of the JWG. **Therefore, all TSOs participating in this work have to sign the annex 2 of the NDA, which we will send you after having received your nomination.** However, many TSOs have already signed the Annex 2 in the context of working in the joint workstreams with the DSOs on the Cybersecurity Network Code or the Network Code on Demand Response. **Those TSOs that have already signed the annex 2, do of course not have to sign again.**

If you have any questions do not hesitate to contact Bhagyashree Wahie (bhagyashree.wahie@entsoe.eu) or Benedikt Stöfl (Benedikt.Stoefl@sec.entsoe.eu).

To adhere with the GDPR compliance, we are required to communicate the ENTSO-E Data Protection Policy before receiving applications.

All applicants must be informed and receive the data privacy policy before sharing their candidacy with the Secretariat.

"Please note that personal data, as collected in the framework of this election process, are processed by ENTSO-E in compliance with the GDPR and in accordance with the ENTSO-E personal data protection policy which is available here".

The policy applies to everyone who gets access to candidates' applications in the process of collecting nominations:

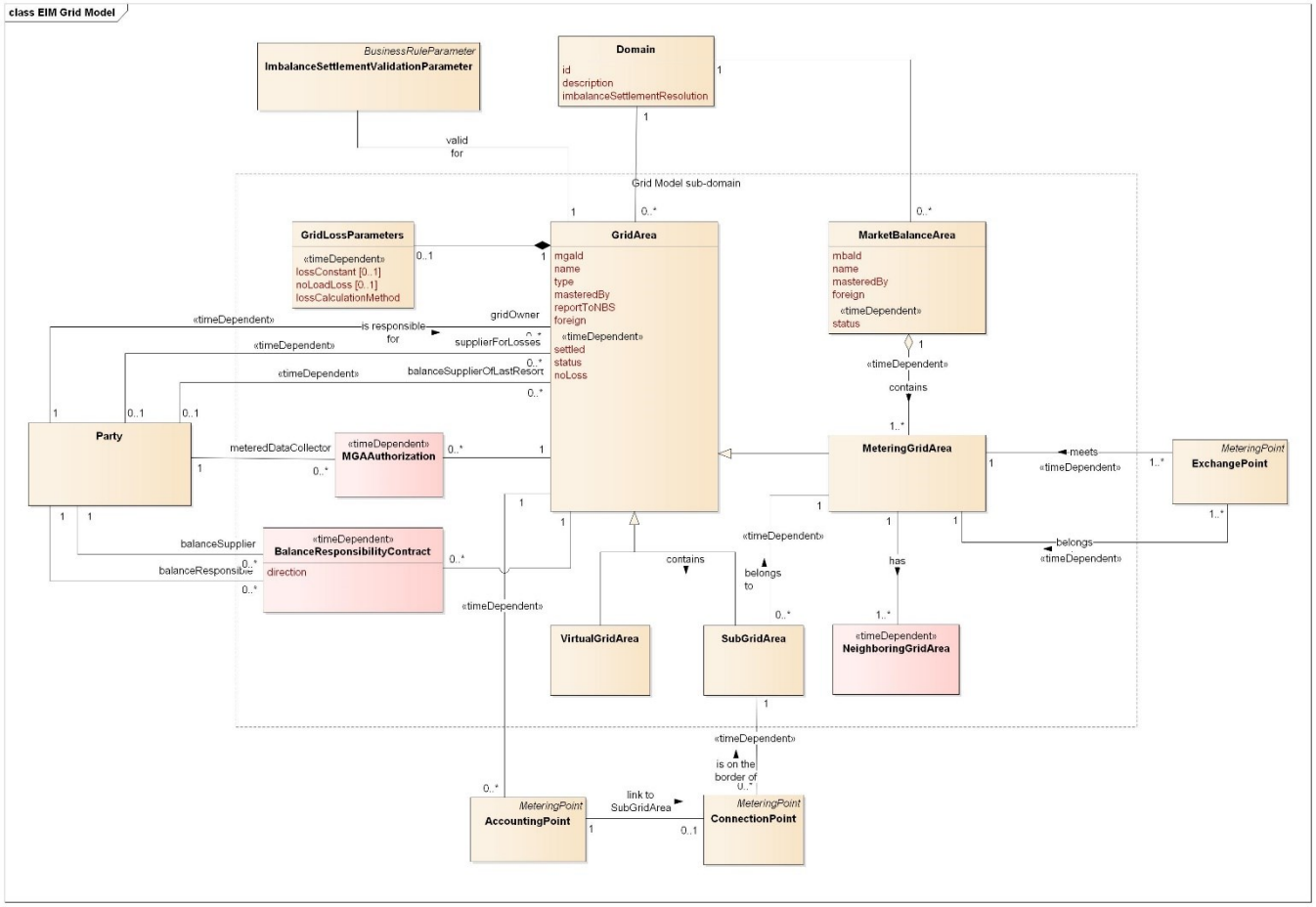
"Please note that personal data collected in the context of the election must be processed in compliance with the GDPR and in accordance with the ENTSO-E personal data protection policy available here".

Thank you in advance for your support and cooperation. We look forward to your nominations.

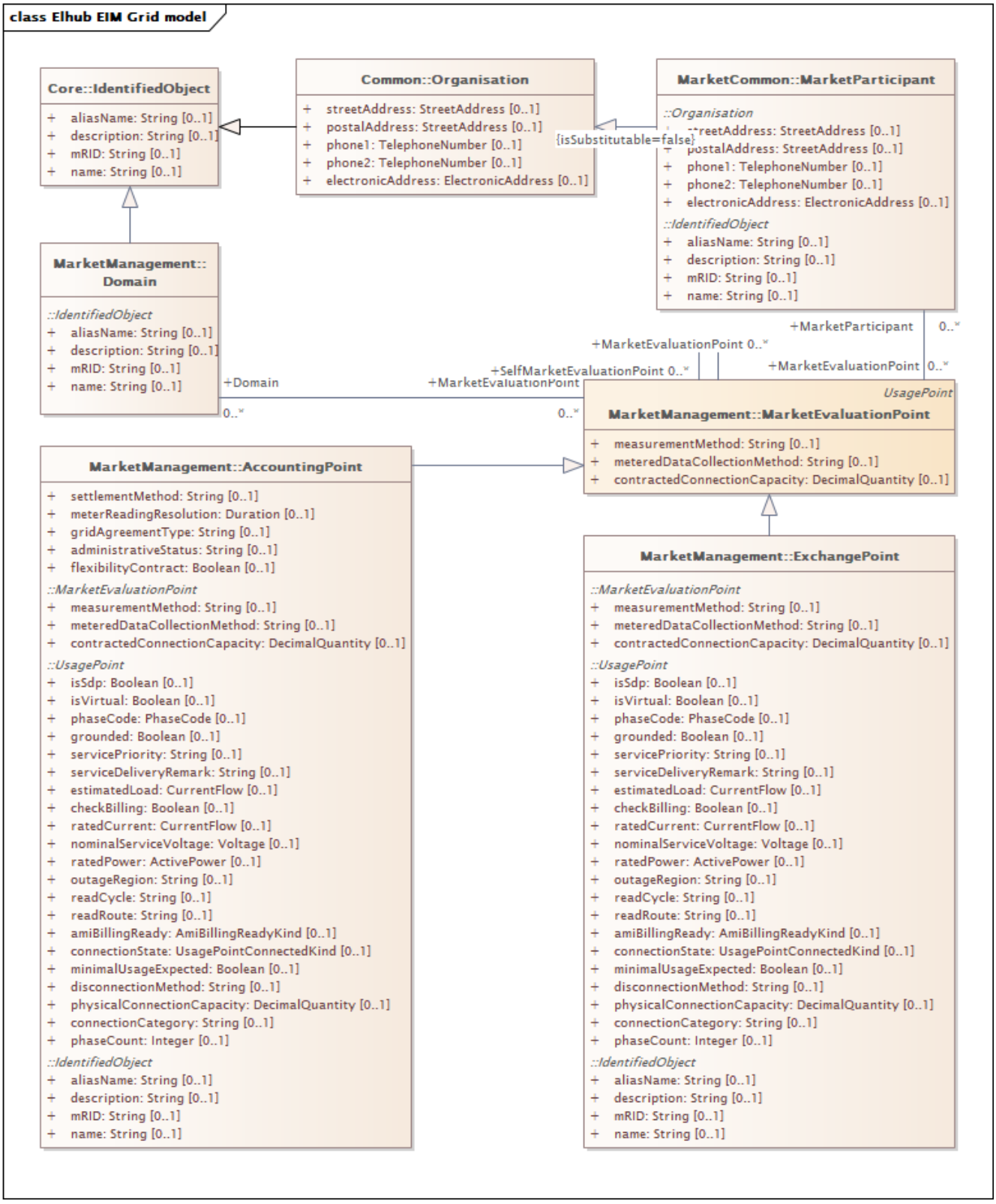
Item closed.

Appendix A Class diagrams from NTC meeting December 18th

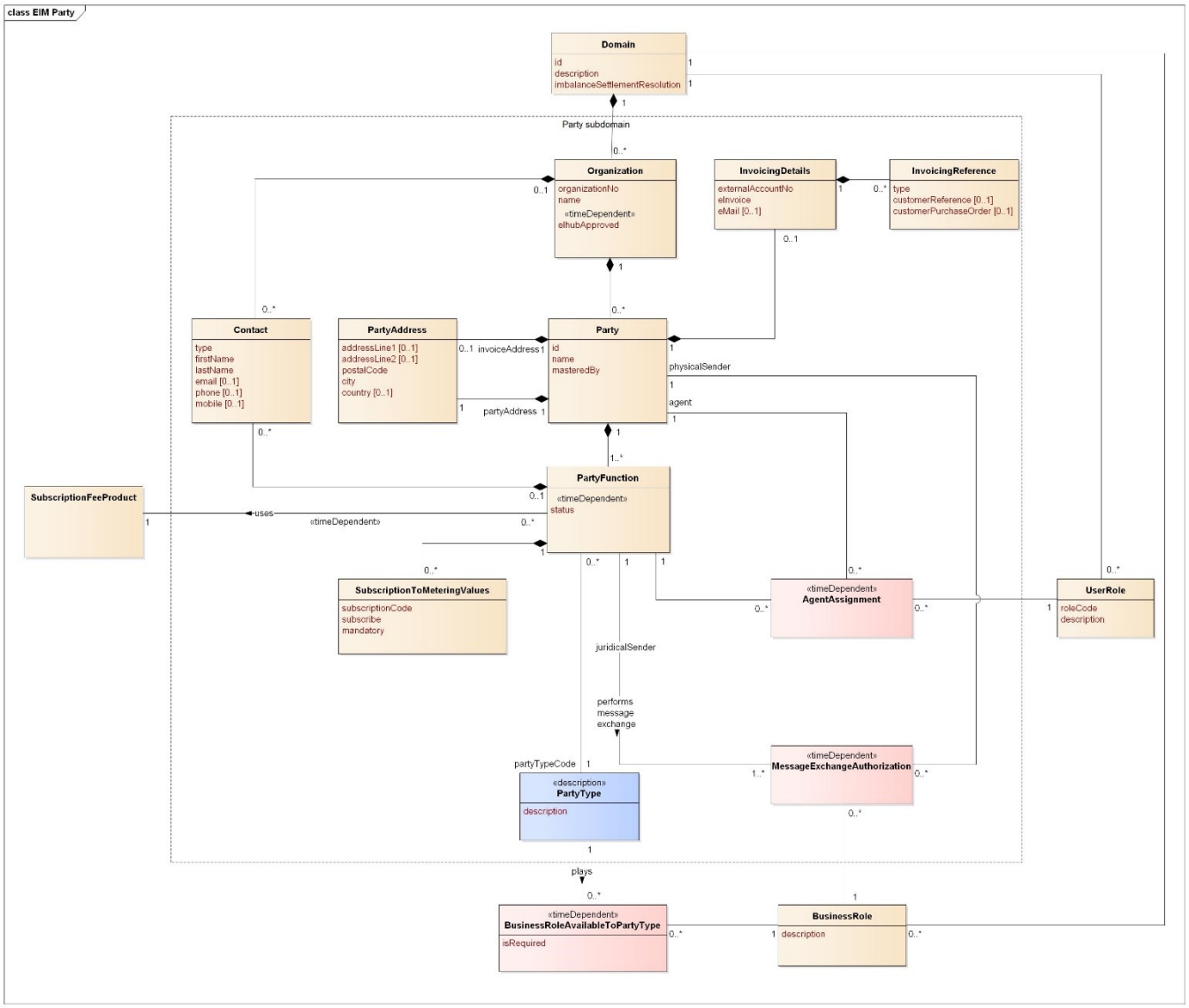
A.1 Elhub EIM Grid Model (class diagram)



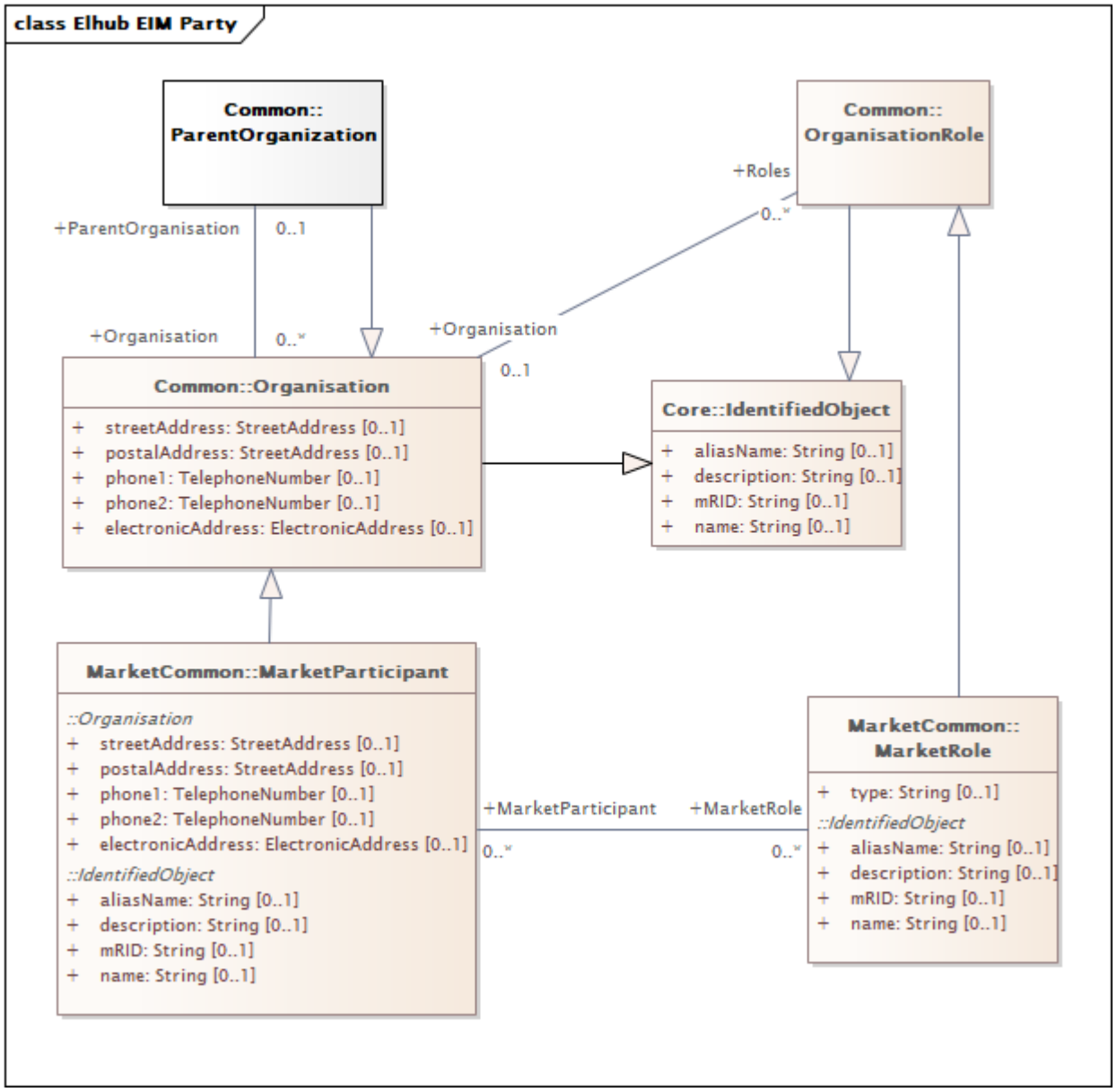
A.2 First try of mapping Elhub EIM Grid model to CIM



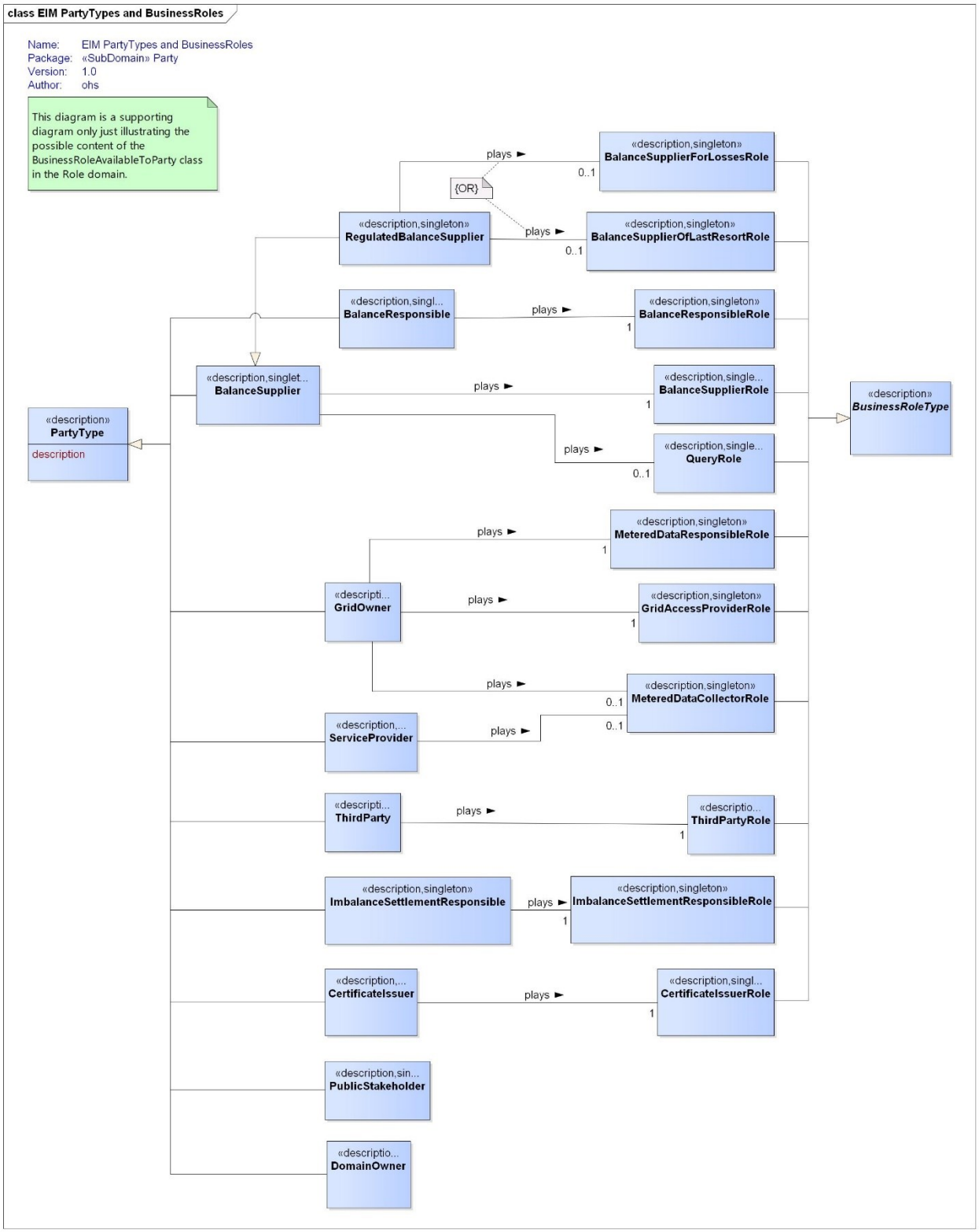
A.3 Elhub EIM Party (class diagram)



A.4 First try of mapping Elhub EIM PartyTypes and BusinessRoles to CIM



A.5 Elhub EIM PartyTypes and BusinessRoles (class diagram)



Appendix B Overview of Nordic memberships in international standardisation bodies

Name	Member of
Anders (SE)	CGMES, ESMP
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
Moustafa (SE)	CGMES
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 C Overview of the usage of xml-schemas in the Nordic countries

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

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

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