Present:	Bent Atle, NBM/Svenska kraftnät
	Christian, Energinet
	Henrik, Energinet
	Jan (DK), Energinet
	Jan (SE), Svenska kraftnät
	Jon-Egil, Statnett (Convenor)
	Mario, Elhub
	Miloš, Unicorn (under item 9)
	Ove, Edisys (Secretary)
	Teemu H, Fingrid
	Teemu K, Finish datahub
	Tuomas P, eSett (under item 10)
To (NMEG):	Anne Stine, Elhub
	Christian, Energinet
	Henrik, Energinet
	Jan (DK), Energinet
	Jan (SE), Svenska kraftnät
	Jon-Egil, Statnett (Convenor)
	Mario, Elhub
	Miika, Fingrid
	Ove, Edisys (Secretary)
	Teemu H, Fingrid
	Teemu K, Finish datahub
CC:	Bent Atle, NBM/Svenska kraftnät
	Fedder, Energinet
	Fredrik, Fingrid
	Hans Erik, Elhub
	Pamina, Energinet
	Tage, Energinet
To (Invited guests):	Antti, eSett
	Søren, Nordic RCC
	Tommy, eSett
	Tuomas L, eSett
	Tuomas P, eSett
Appendix A:	Overview of Nordic memberships in international standardisation bodies
Appendix B:	Overview of the usage of xml-schemas in the Nordic countries
Attachment:	None

1   Approval of agenda

The agenda was approved with the following additions:

- BRS for Nordic Scheduling and Ancillary Services Processes: ERRP Planned Resource Schedule Document for Svenska kraftnät, see item 11.5.
- urn-entsoe-eu-local-extension-types.xsd, see item 17.2.
- Proposal for agenda item for our physical meeting February 28th and 29th in Helsinki, see item 23.1.
- NMEG member list at www.ediel.org, see item 24.1 under AOB.
- Datahub group/team within development of CIM, DSO Entity/ENTSO-E and JWG, see item 24.2 under AOB.

2   Approval of previous meeting minutes

The previous meeting minutes were approved.

3   Status for the handover of ebIX® deliverables to the DSO Entity

Background: ebIX® closed down by the end of 2023 and the DSO Entity has agreed to take over the ebIX® deliverables

References (links):
What to decide,
discuss or inform: Discuss and resolve possible consequences for NMEG.

Ove informed that the process of handover ebIX® deliverables to the DSO Entity has started. There has been one planning meeting and the first step seems to be transfer of knowledge related to making BRSs. The next meeting is planned tomorrow (Tuesday February 6th), and the DSO Entity is proposing to model procedure 1 and 2 from the "*Implementing Regulation (IR) on interoperability requirements and non-discriminatory and transparent procedures for access to metering and consumption data*", ref questions from Mario under item 24.3 below:

- Diagram 1: Procedure "Access to validated historical metering and consumption data by the final customer".
- Diagram 2: Procedure "Access to validated historical metering and consumption data by an eligible party".

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.

Henrik informed that Energinet currently is discussing if the development process should be continued together with Unicorn or with someone else.

To be continued at next NMEG meeting.

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.

Nothing new reported.

To be continued at next NMEG meeting.

6   Status for cooperation with NEAT and contribution to NMEG ECP strategic themes

Background: NIT has approved the establishment of a short-term secure communication platform and short-term ECP requirements. However we will also have to investigate long-term solutions. It is NEX responsibility to do the work. NMEG will follow up and supervise.

References (links):

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

Continued action:
- Jon-Egil will contact the convenor of NDS (a security group under NIT) and NEX to discuss how NDS, NEX, NEAT and NMEG shall cooperate.

6.1   How to handle the new NMEG strategic action: "Establish a secure Nordic Communication platform"?

Background: NIT has approved the establishment of a short-term secure communication platform. It is NEX responsibility to do the work. NMEG will follow up and supervise.

References (links):   From the NMEG roadmap:

> *NMEG will together with the Nordic TSOs specify and establish a secure Nordic Communication platform for secure information exchange between the Nordic TSO organisations in case of a major IT incident and/or any secure communication need between the Nordic TSOs.*

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

Jon-Egil informed that there will be a workshop next week that may be used as input for the project.

Continued action:
- Jon-Egil will follow up on NEX.

6.2   How to handle the new NMEG strategic action: "Establish new ECP requirements"?

Background: NIT has approved the establishment of a short-term ECP requirements. However we will also have to investigate long-term solutions. The NEX group is the one who have the knowledge and the one to making the first draft of an ECP recommendation. NMEG will follow up and supervise.

References (links):   From the NMEG roadmap:

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

Continued action:
- NMEG will follow up on NEX.

7   Status from NEX (Nordic ECP/EDX Group)

Background: NIT has taken over the responsibility for NEX (Nordic ECP/EDX Group), former "ECP/EDX Centre of Excellence". However, the group is still below NMEG in the "formal hierarchy". NMEG will be kept informed of progress in the group.

References (links):
What to decide,
discuss or inform: Status from NEX.

Nothing new reported.

7.1   How to handle the new strategic action: "Establish new ECP requirements"?

See item 6.2 above.

Item closed

8   Support to Nordic RCC

Background: The Nordic RCC is a central body in the Nordic energy market with need for common data exchange standards, hence a natural member of NMEG.

References (links):   None.
What to decide,
discuss or inform: Update of BRSs, MRs for CIM and/or ESMP, etc. All based on Nordic RCC needs.

Nothing new.

9   Support to the NBM project

Background: The NBM-project (Nordic Balancing Model) is going forward and there is a need for several new CIM based documents.

References (links):   http://nordicbalancingmodel.net/
What to decide,
discuss or inform: Status for the NBM project and possible task for NMEG.

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

Ove had as action from previous meeting published the memo "CIM master data documents" at www.ediel.org under common documents, under a new block called "draft documents".

Based on this memo, Bent-Atle arranged on January 23rd a meeting with Miloš from Unicorn and Ove where comments from NBM (Unicorn) was discussed. The meeting concluded with the following updates of the "Memo - NMEG CIM master data documents 20240124.pdf":

- Portfolio_Limits class is made repeatable
- ValidityStart and ValidityEnd associations are added to Portfolio_Limits

- The Portfolio_Limits is associated with MktActivityRecord instead of Portfolio_Document
- The Portfolio_Document is made optional

Later, on January 31st, the status attribute was added to the MktActivityRecord class in the portfolio master data document.

The memo "CIM master data documents" will be further discussed under item 10.1.

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"

9.2 How to report bids that are partly accepted as "pay-as-cleared" and partly accepted as "pay-as-bid" due to bottlenecks (i.e. having two quantity-price couples for each bid and MTU)?

How to model the question above in the data flow to BSP/TSO?

Miloš from Unicorn see the following options:

1) Ask ENTSO-E EDI WG to extend the schema of ReserveAllocationResult_MarketDocument – add new Quantity attribute in the Point class. This is probably cleanest possible solution.
2) Create two ReserveAllocationResult_MarketDocuments for each involved BSP, one with standard accepted bids and one with the bids accepted due to the bottleneck. I consider this as second-best solution, but it requires processing of two documents by each BSP whose bids have been forcibly accepted.
3) Create one document but duplicate time series. All BSPs must be aware of that the same bid may be present twice in the same document (possibly distinguished by the different Reason codes – probably B49 for balancing and B22 for system purposes?)
4) Create one document and one time series and duplicate Series_Period elements instead of time series, this is probably against common practice how to build CIM documents (although it is not forbidden explicitly). Moreover, it is not possible to distinguish two Series_Period records because this class cannot be connected to Reason class.
5) Create one document and one time series and duplicate Points, this is probably also against common practice, but we can at least to assign the different Points to different Reason codes.

Jon-Egil suggest going for 3), which was agreed. Reason code "**B49** Balancing" will be used for normal bids (pay-as-cleared) and "**B22** System regulation" will be used for bids when system regulations are needed, such as for bottlenecks.

Item closed.

10 Support to NBS (eSett)

Background: NMEG has made a set of BRSs for NBS (Nordic Balance Settlement). NMEG has also drafted a set of documents, both based on older ENTSO-E and ebIX® standards, and newer based on CIM. These BRSs and messages needs to be maintained and extended based on new requirements from the market.

References (links):   https://ediel.org/nordic-balance-settlement-nbs/

What to decide,
discuss or inform: Status for the updates and extensions of/to NBS BRSs and documents.

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

NMEG has, based on requirements from NBM/Fifty/Unicorn, made a set of new CIM based master data documents for Portfolio master data document, Resource master data document and Party master data document. The intention was to make master data documents that can be used by both NBS and NBM.

Ove has as action investigated if there are parts of the NBS master data specifications for "Ediel (NEG) Resource (Production Unit) Master Data Document" and "NEG Party Master Data Document" that are missing in the new memo "NMEG CIM master data documents". The conclusion was that most of the attributes are there but there are some issues to be discussed and possibly some MRs to be made:

- NEG Party Master Data Document
  - The "businessType" attribute is missing. Can we use the "type" attribute in the MktActivityRecord class instead?
  - Asset Type is missing. This attribute was added in the autumn 2023 and is used for "Energy storage"
  - The "reference" (NBS: MEC) is missing. Can we use the "description" attribute?
  - The attribute AccountingPoint.mRID is required in ESMP, but the NBS requirement is only the optional settlementMethod. Since one party can have different Accounting Points with different settlement methods, the mRID is kept as required.

- NMEG CIM Resource Master Data Document:
  - Production type (**Z01** Normal / **Z02** Minor) – It must be verified with eSett if the Production Type is needed in the future.
  - The RelatedArea/TypeOfArea is missing
    - Could be solved by replacing the association name Related_Domain by RelatedMGA_Domain and RelatedBZ_Domain
  - The ObjectAggregation attribute (**A06** Resource object / **Z01** Generator group) is mapped to the attribute isAggregatedRes (Boolean or YesNo) in RegisteredResource
    - The isAggregatedRes attribute is present in the IEC62325/MarketCommon/RegisteredResource class but not in ESMP.
  - Can the "Capacity: QuantityType" attribute from the ResourceObjectDetails class be mapped to the already existing (in ESMP) "maximumCapacity: Decimal" or "minimumCapacity: Decimal" in the ResourceCapacity class?

10.2   Update requests to NBS BRS documents

Ove had as action from previous meeting updated the NBS BRS v2r3B, sent it to NMEG for commenting for one week and thereafter published it. The following changes were done to the BRS:

- The note related to Business Type **A07** in the "NEG (ebIX® based) Aggregated Data per MGA (E31, E44) – consumption document" stating that the quantity can be negative is removed.
- Replaced Balance Supplier with Energy Supplier where applicable (in both text and artefacts).
- Update the Harmonised Electricity Market Role Model (HEMRM) diagram and definitions to be in line with the lates HEMRM, i.e. version 2023-01.

Item closed.

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

To do at this meeting:

a) Review (verification) of new (updated) Reason codes:

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.

Conclusion:

- o We keep the original text and add extra information in the BRS

b) Review of extension to Activation Market Document, i.e. new association from the TimeSeries to MarketParticipant named RelatedRole_MarketParticipant.
   Conclusion:

- o Reviewed and found OK.

c) Review of MR for the extended Activation Market Document with an association from TimeSeries to MarketParticipant.
   Conclusion:

- o Reviewed and found OK. Jon-Egil will forward it to ENTSO-E.

d) Review of Activation Market Document in the NBS BRS (Including rename of Balance Supplier to Energy Supplier).
   Conclusion:

- o Reviewed and found OK.

e) Review of the detailed description from Tuomas of 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.
   Conclusion:

- o Reviewed and found OK. The description (clarification) was added to the BRS.

Action:
- Tuomas and Teemu H will discuss if more Business type codes are needed in the Activation document.
- Ove will update the BRS based on comments after the review of the BRS and send it to NMEG as basis for discussion at the next NMEG meeting.

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

Background: NMEG is responsible for a set of BRSs and other documents, such as the NMEG code list, which are published at www.ediel.org.
References (links):   None.
What to decide,
discuss or inform: Update of BRSs and other documents if needed.

11.1   Exchange of settlement information between the Nordic TSOs – 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 previous meetings it has been agreed to add a description of the actual settlement process in the TSO-TSO BRS, i.e. how to use the data that is exchanged to the counterpart. This will be described in a new chapter "Process Areas within the Nordic TSO-TSO settlement process".

At the previous meeting (January 9th and 10th, it was agreed using both the FSKAR and the ERRP Reserve Allocation Result Document because there are different attributes needed for the different exchanges.

Ove had as action listed the differences between the FSKAR and the ERRP Reserve Allocation Result Document, to be used as a reason for not sending all exchanges between TSOs in one settlement report.

FinancialSettlementReport_MarketDocument (FSKAR)	**ERRP Reserve allocation result document**
TimeSeries level	
Product: **8716867000030** Active energy **8716867000047** Reactive energy (Only used for Business type = **A64**)	auction.mRID [1]: For Business type = C26 and C27 **FCR-D** or **FCR-N** For Business type = C36 and Z92 **mFRR**
Business types: **A15** Losses **A21** Unintended energy **A64** Metered measurement data **Z88** Total planned flow	Business types: **C26** Frequency Containment Reserve-Normal (FCR-N) **C27** Frequency Containment Reserve-Disturbance (FCR-D) **C36** Ramping period energy **Z92** Agreed Supportive Power (ASP)
in_Domain.mRID and out_Domain.mRID	acquiring_Domain.mRID and connecting_Domain.mRID
connectingLine_RegisteredResource.mRID	
	marketAgreement.type and marketAgreement.mRID
	flowDirection.direction: **A01** Up **A02** Down **A03** Up and down (only for FCR-N)
Point level	
monetaryValue_Quantity.quantity (The total amount (Only used for Business type = **A15** and **A21**))	

Reason level	
	code (If more detailed supportive power is needed, reason codes may be used).

- Differences where a MR is needed:
    - Auction.mRID is required in ERRP and not present in FSKAR
    - Product is required in FSKAR and not present in ERRP
    - flowDirection.direction is required in ERRP and not present in FSKAR
- Other differences:
    - Reason/code may be used If more detailed supportive power is needed – however, Reason/code is also available in FSKAR
    - marketAgreement.type and marketAgreement.mRID are required in ERRP and not present in FSKAR – however not needed by NMEG anyway (only one code (**A05** Total contract) used in marketAgreement.type and "na" used in marketAgreement.mRID).
    - connectingLine_RegisteredResource.mRID is not used in FSKAR, but the attribute registeredResource.mRID is available in ERRP.

Conclusion:
- We continue using two documents.
- We will send the BRS on circulation for comments to NMEG for one week before publication.

Also at the previous meeting, Jan (SE) informed that Svenska kraftnät will now give the 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. Hence, Ove has as action from previous meeting made the Ediel extended Financial Settlement Report (FSKAR) xml schemas and sent it to Jan (SE). Shall we publish the Ediel extended Financial Settlement Report (FSKAR) xml schemas?

Action:
- Ove will send the BRS for Nordic TSO-TSO settlement and the extended Financial Settlement Report (FSKAR) xml schemas on circulation for comments to NMEG for one week before publication.
- Jan (SE) will try finding some documentation at Svenska kraftnät that can be used as basis for a more detailed description in the first chapters of the BRS for TSO-TSO settlement.

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

The item was postponed.

11.3 Status for new Nordic extended Schedule Outage Market Document

The item was postponed.

11.4 Update of NMEG code list

For information: Ove had as homework published the updated NMEG code list (update of definition of Market Product Types **Z02** and **Z03** as agreed at previous meeting).

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.)

Conclusion:

- Søren has asked internally if the code is used. We will decide next meeting.

Christian asks if we can deprecate the Settlement method code "**Z01** Flex settled":

3.6 Settlement method code

Code	Name	Description
Z01	Flex settled	Consumption or production from small continuously read Accounting Points

It doesn't seem to be used in any NMEG BRSs. There we use the Settlement method code "**E15** Flex settled".

Conclusion:

- We will deprecate the "**Z01** Flex settled" code.

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

At our previous meeting, the Business Types **A10** and **A12** were changed to **A95** and **A96** in the ERRP Planned Resource Schedule Document in the BRS for Nordic Scheduling and Ancillary Services Processes.

Henrik informed that he has asked internally and that he is wating for the response.

Action:

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

12   Status for MRs to ENTSO-E

Background: NMEG has sent several Maintenance Requests (MR) to ENTSO-E during the last years and some of these (about 10 MRs) has been postponed by CIM WG.

References (links):   The MRs can be downloaded from Statnett's eRoom.

What to decide,

discuss or inform: Review and update of statuses in NMEG MR Overview document.

Status:

MR #		Status
NMEG 2022/205 (CIM WG)	Addition of a Category attribute to TimeSeries in IEC62325 and ESMP	***20220907:*** • 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, 20240110 and 20240205:*** • 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 and 20240205:*** • Ongoing
NMEG 2024 212	Add Related_MarketParticipant to Activation Market Document	***20240205:*** • Agreed during NMEG meeting and sent to Jon-Egil for forwarding to ENTSO-E.

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

Continued action:
* Jan (SE) will investigate how to handle rejected code requests from MR NMEG 2023/208 (CIM WG):
    Commercial operational load: **Rejected:** not an asset.
    Private heat pumps: **Rejected**: However, we got three new codes that may be used instead:
        "**B56** Heat pump specified (which will be corrected to **un**specified)",
        "**B57** Heat pump electrical" and
        "**B58** Heat pump absorption".
    Commercial load (industry): **Rejected:** not an asset.
The item was postponed.

14   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).

Nothing new reported.

15   Message for control of load in a Metering Point

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

Teemu K informed that the project is ongoing, however the project is not yet on a technical level.

16   Status for a common European Area project

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

Noting new, awaiting JWG.

17   XML schemas

Background: The NMEG set of schemas, including extended table with TSO columns, are shown in
                             Appendix B.
                             When we start a project together with NBM (Nordic Balancing Model), everyone are asked
                             to find what versions of xml-schemas are used to day in different projects and come up
                             with proposals for new schemas and/or sets of schemas that should be published at
                             www.ediel.org.
References (links):
What to decide,
discuss or inform: Verify the list of proposals for new schemas and/or sets of schemas, from the NMEG
                             participants, which should be published at www.ediel.org.

17.1   Overview of the usage of xml-schemas in the Nordic countries

Ongoing task:
- All are asked to find what versions of xml-schemas are used to day in different projects and come up
  with proposals for new schemas and/or sets of schemas that should be added to Appendix B and be
  published at www.ediel.org.

- Ove will update the table based on NBM documentation received from Bent Atle (NBM/Fifty), when the
  NMEG BRSs are updated with NBM documents.

The item was postponed.

17.2   urn-entsoe-eu-local-extension-types.xsd

When making the extended FSKAR Settlement Market Document Ove noticed that the NMEG urn-entsoe-eu-local-extension-types.xsd, which is published at www.ediel.org, is missing the LocalTimeframeType, i.e.:

```
<xsd:simpleType name="LocalTimeframeType">
        <xsd:restriction base="xsd:NMTOKEN">
                <xsd:enumeration value="A01"/>
        </xsd:restriction>
</xsd:simpleType>
```

One consequence is that we cannot use the published NMEG urn-entsoe-eu-local-extension-types.xsd together with the latest ENTSO-E code list schemas.

Conclusion:
- It was agreed adding the LocalTimeframeType to the NMEG urn-entsoe-eu-local-extension-types.xsd?

Action:
- Ove will update and publish the urn-entsoe-eu-local-extension-types.xsd.

Item closed.

18   Ediel.org Mysql issue

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

References (links):
What to decide,
discuss or inform: Status for moving Mysql to www.ediel.org.

The item was postponed.

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

19   Addition of an "archive folder" at Ediel.org

The item was postponed.

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.

20   NMEG Technical Committee (NTC)

Background: At the NMEG meeting November 2019, it was agreed to establish a NMEG CIM-XML Subgroup that will make Nordic CIM based XML documents. The following tasks are prioritised (updated at NMEG meeting March 2020):
    a) Continue with NBS documents:
       1. NBS ebIX® based documents.
       2. NBS documents based on older ENTSO-E schemas.

3.   NBS master data documents.

The members of NMEG CIM-XML Subgroup are Bent Atle, Christian, Henrik, Jan (DK), Jan (SE), Teemu and Ove.

References (links):

What to decide,

discuss or inform: Status for looking into making CIM based document to replace the ebIX® XML documents used towards eSett today.

20.1   CIM for NBS

The NMEG CIM-XML Subgroup has made a proposal for how to migrate from old ebIX® documents to CIM documents for the NBS ebIX® based documents.

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

- Aggregated data per MGA:
  - It doesn't seem to be any existing CIM documents that fits the need; hence we will probably have to make our own Nordic CIM document.

- Aggregated data per neighbouring grid
  - Of the existing ENTSO-E alternatives, the FSKAR document seems to be closest to the NBS need.
  - Suggest discussing in NEMG if should continue with the Nordic document made for the Danish DataHub or try to update the FSKAR document.

- Confirmation of aggregated data per neighbouring grid
  - The confirmation of aggregated data per neighbouring grid document has exactly the same attributes and associations as the Aggregated data per neighbouring grid, hence we should use the same document, possibly with a different document type.

From first brief discussion in NMEG February 23rd:
- 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 discussed at next physical meeting.

20.2   CIM for Elhub

Status NTC project looking into mapping of the "Elhub Information Model" (EIM) to CIM, as well as harmonisation with what has been done related to the Danish DataHub. It is suggested to start with mapping of EIM to CIM.

20.3   Report from NTC meeting January 22nd

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

From Mario by mail before the meeting:

I went through Jans (DK) document and would propose we start with following from Elhub side:

https://dok.elhub.no/ediel2/brs-no-101-oppstart-kraftleveranse-leverandoerskif

It contains several messages listed. The whole list of messages is here:

https://dok.elhub.no/ediel2/messages-per-process-component

Ref to XSD schema:

https://dok.elhub.no/ediel2/emif-files ("bim" directory contains XSD schema)

Also, it would be good to crosscheck some return codes (https://dok.elhub.no/ediel2/error-codes-and-messages), just to get an overview how far Elhub is from current CIM implementation.

From related discussion:
- The three Nordic Datahubs are today basing their headers on the ebIX® header, however with some national customisations:
  - Denmark uses two parties in the header, sender and receiver.
  - Finland uses four parties in the header, physical (or technical) sender and recipient, and juridical sender and recipient.
  - Norway uses three parties in the header, Juridical sender and recipient, and physical sender.
  - Denmark has chosen to use the ENTSO-E header (MarketDocument class), which contains two parties, Sender and Recipient.
- The document used for mapping of the Finish Datahub attributes can be found at:
  https://palvelut.datahub.fi/api/documents/file/0-232449-1-294924
- During the meeting, the document header (MarketDocument) and the Request change of supplier document were revied and new columns for attribute usage in Finland and Norway were added (in addition to the Danish attribute usage).

The mapping of Finish and Norwegian attributes will continue next Monday from 9:45 until 11:30.

Item closed.

20.4   *Report from NTC meeting January 29th*

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

From discussion:
- At the previous meeting it was discussed why Norway have three parties in the header (juridical sender, juridical recipient, and physical sender), Finland has four (physical (or technical) sender and recipient, and juridical sender and recipient) and Denmark has two (Sender and Recipient):
  - Mario had investigated the reason for Norway to have three parties:
    > "*For most of the messages, the recipient is Elhub, but not for all. Elhub always wants messages to be sent to Juridical recipient, to avoid tracking down whom message was sent and to ensure Juridical one always got the message*".
  - Teemu K had investigated the reason for Finland to have four parties:
    > "*I asked around a bit for details and this is my understanding. We send the message to the physical recipient in a delegation situation. The juridical recipient will not receive the message, with the idea that they have delegated the responsibility to another party. The physical recipient can then use the juridical recipient information when processing the message to decide who is affected by the message. They could for example route the message to the correct (part of their) customer information system*".

- o Teemu H had also investigated a bit and referenced to Chapter 2.16 in:
  https://palvelut.datahub.fi/api/documents/file/0-232449-1-294924

  A supplier or a DSO can give another party (supplier, DSO or 3rd party) the right to report events to or retrieve notifications from datahub on their behalf. Inbound delegation gives a party the right to start a process (e.g., DH-311-1 Notification of a new sales contract) on behalf of the delegating party. Outbound delegation means that a message normally received by the delegating party is forwarded to the delegated party instead (e.g., DH-111-2 customer information forward to DSO). In delegations, the authorisation to market data is based on the rights of the delegating party. More precisely, datahub checks the rights according to the juridical sender indicated in the transaction (see 2.16.1).

  ……

Conclusion:
- o We need addition of third parties, both sender and receiver third partis, in the MarketDocument class. However, we will use the term PhysicalSender and PhysicalRecipient.

- Much of the time was used to discuss differences between the Danish, Finnish and Norwegian (and partly Swedish) principles used, such as:
  - o In Finland there is a document "DH-311 Notification of a new agreement" sent from the Energy Supplier to the datahub, which contains all master data the Energy Supplier can send to the datahub. In the other three Nordic countries there are special documents for Request change of Supplier and Request change Accounting Point characteristics.

Conclusion:
- o We will try making a CIM document that covers all information needed by the Finnish DH-311 Notification of a new agreement and the Danish/Norwegian/(Swedish) Request change of supplier.

- Mario informed of related links to Elhub:
  - o [BRS-NO-101 - Start of energy supply](#)
  - o [Request start of supply](#)
  - o [1 - Start of supply - from Balance Supplier](#)
  - o The process is generally used for start of supply of energy in a Metering Point. The following business processes are supported:
    - Change of balance supplier
    - Customer move in
    - Cancellation/rollback of 1 and 2 above

- Jan (SE) informed of some links related to the Swedish datahub:
  - o [Overview of project documentation](#)
  - o [The life cycle of a metering point](#)
  - o [Different events that can occur on a customer metering point](#)

Action:
- Ove will make a first draft of a CIM document covering all information needed by the Danish "RSM 001 - Request Change of Supplier", "Finnish "DH-311 Notification of a new agreement" and the Norwegian "1- Oppstart kraftleveranse – leverandørskifte (1- Start energy supply – change of supplier)".

Item closed.

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.

Noting to review.

21.1 Prepare Nordic positions before coming CIM WG meetings

Noting to be discussed

22 Information (if any)

Nothing reported.

23 Next meetings

NMEG:
- Wednesday February 28th and Thursday February 29th at Fingrid's offices in Helsinki
- Tuesday April 9th, 09:00 – 12:00
- Monday April 29th, 09:00 – 12:00
- Tuesday May 28th and Wednesday May 29th in Copenhagen

NMEG CIM XML subgroup:
- Wednesday February 14th, 09:00 – 11:00.

23.1 Proposal for agenda item for our physical meeting February 28th and 29th in Helsinki

From Jan (DK):
I would like to suggest an addition to the agenda when we have physical meetings. In the NTC group we are mapping all the attributed for Denmark, Norway and Finland, but it is hard for me to follow the process behind the attributes. So my suggestion is that we take time when we have physical meetings to go through a process example change of supplier, and draw it up, so we can see how the attributes are used and why in each country. Thereby getting a better understanding, of where we are different, so that we can build a solid Nordic CIM model in the NTC group.

The item will be put on next agenda.

24 AOB

24.1 NMEG member list at www.ediel.org

Ove informed that Mario has been added as Elhub representative.

Action:
- Ove will:
  - Add Henrik, Teemu K (Fingrid Datahub) and Søren.

- o Remove Minna and Tage.
- o Correct Teemu H's company to Fingrid.

24.2 Datahub group/team within development of CIM, DSO Entity/ENTSO-E and JWG

From Mario January 25th:

Under 24.2 from previous NMEG meeting, we touched (among all sorts of things) the proposal (by Jan, DK) to have data hub group/team within development of CIM. If CIM development continues with DataHubs being only bystanders, we are concerned it will not meet our needs.

Can we do something about that?

Conclusion:

- Will be put on the next NMEG agenda.

24.3 Questions related to ENTSO-E, DSO Entity and JWG

From Mario January 31st (with response from Ove):

I have some questions related to ENTSO-E TF groups we discusses on our meeting in Stockholm and we put some names in some of them. Well, I got email from certain Ferdinando Dominquez from ENTSO-E (DSO Entity). I am sure some of you got it as well. After some introduction it became clear that there are some things to clarify before we proceed.

1. First and foremost, only DSO and ENTSO-E entities are mentioned in document he sent me (attached) and it seems he has very little knowledge of what DataHubs are, what is our role and mandate, etc…

   [Ove: *ENTSO-E is the EU mandated body for the TSOs (all European TSOs are members), while the DSO Entity is the mandated EU body for the DSOs. It is a pretty new organisation, i.e. established a few years ago. We believe we have a few Norwegian DSOs as members. The Joint Work Group (JWG) will work with tasks (projects) of common interest, such as data exchange standardisation. Ferdinando is from the DSO side.]*

2. In addition, he mentioned a valid point: " it is my understanding that this Implementing Regulations will not apply to Norway which means it could be that they are not that interesting for you."

   [Ove: *I think it would be strange if this Implementing Regulations IR doesn't apply for Norway through the EEA (EØS) agreement. However, if not, Norway have always tried to harmonise with the other Nordic and European countries, hence I guess we will try following it anyway.]*

3. And one more: " I am not sure what material ENTSO-E circulated to facilitate the application of experts for the JWG (I work in the DSO Entity) and, as such, I am not sure whether you are familiar with the content of the Implementing Regulation 2023/1162 and the structure of the Joint Working Group."

   [Ove: *We have worked with the IR 2023/1162 in ebIX® and ENTSO-E. I attach it for information.]*

And he is right there. What documents did we all go through for JWG, who is familiar with Regulation 2023/1162 (I am not for sure), etc…

So… What is going on here? What would Data Hub members possibly contribute in those TF groups, do we need RME as regulator in there and, generally, I see a lot of misunderstanding here and questions on both sides.

> *[Ove: Well, at least the IRs will be relevant for the datahubs. The 2023/1162 concerns exchange of metered data to the end users (Customers) and third parties (Eligible Party), but there are two others that will be available maybe by the end of this year; one for Change of Supplier and one for Distributed flexibility – these will influence the datahubs in the future.]*

Conclusion:

- Will be put on the next NMEG agenda.

Appendix A   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 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**

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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.

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