

<b>Minutes:</b> NMEG meeting <b>Date:</b> Tuesday March 12 <sup>th</sup> <b>Time:</b> 10:00 – 12:00 and 13:00 – 15:00 <b>Place:</b> GoToMeeting	 <b>NMEG</b> Nordic Market Expert Group
March 19 <sup>th</sup> , 2021	

<b>Present:</b>	Christian, Energinet Bent Atle (Statnett) Jan (DK), Energinet Jan (SE), Svenska kraftnät Jon-Egil, Statnett (Convenor) Mika, eSett Ove, Edisys (Secretary) Tage, Energinet Teemu, Fingrid
<b>To (NMEG):</b>	Anne Stine, Elhub Christian, Energinet Jan (DK), Energinet Jan (SE), Svenska kraftnät Jon-Egil, Statnett (Convenor) Miika, Fingrid Ove, Edisys (Secretary) Tage, Energinet Teemu, Fingrid
<b>CC:</b>	Audun, Elhub Bent Atle, Statnett (NBM) Fedder, Energinet Hans Erik, Elhub Minna, Fingrid
<b>To (Invited guests):</b>	Mika, eSett, FI Tommy, eSett, FI Tuomas L, eSett, FI Tuomas P, eSett, FI
<b>Appendix A:</b>	Overview of Nordic memberships in international standardisation bodies
<b>Appendix B:</b>	Overview of the usage of xml-schemas in the Nordic countries
<b>Attachment:</b>	None

## 1 Approval of agenda

The agenda was approved with the following additions:

- Update of NBS BRS for TSO-MO and NBS BRS for Master Data, see item 9.3.
- Updates of NBS BRS for TSO-MO - Simulating losses in NBS PX Market Flow messages, see item 9.4.
- Swedish Flexibility project, see item 19.1 under AOB.
- Update of BRS for Trade, see item 19.2 under AOB.

## 2 Approval of previous meeting minutes

The previous meeting minutes were approved.

## 3 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.

Teemu informed that NEX would like to have their own page at [www.ediel.org](http://www.ediel.org).

### **Action:**

- Teemu will create a webpage for NEX and give a few NEX members administrator rights to this page.

## 4 NMEG-NORCAP Project

**Background:** NORCAP is a project run by Nordic RSC that needs a set of new CIM based documents, such as the CRAC document and the SIPS document.

**References (links):** None.

**What to decide, discuss or inform:** Update of the NorCap BRS.

### **Ongoing task:**

- Jon-Egil will inform Ove of which documents that will contain the new resolution (P1D)
- Thereafter Ove will update the BRS and upload it to Statnett's eRoom

## 5 Status for a common meeting with NEAT

**Background:** NIT has taking over from MSC as "home" for NMEG and consequently we should have a common meeting with NEAT (Nordic Enterprise Architecture Team), e.g. half day (same time and place) to see how we can cooperate.

**References (links):** None.

**What to decide, discuss or inform:** Status for a common meeting with NEAT.

**Ongoing task:**

- Jon-Egil will check if it still is any interest for a common meeting with NEAT and if so, schedule a common meeting.

## 6 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.

**Pending list (to remember items):**

- NBM ACE OL documents and Measurement Value Market Documents will be added to the Nordic Operate BRS;
- NBM Capacity Market Documents will be added to the BRS for Determine Transfer Capacity;
- NBM “Reserve Bid Market Document (Plan mFRR Bid)” will be added to the BRS for schedules, the BRS for Nordic Trading System or elsewhere – to be decided.

## 7 Status for MRs to ebIX®

**Background:** NMEG has sent several Maintenance Requests (MR) to ebIX and some of these have been postponed.

**References (links):** The MRs can be downloaded from Statnett’s eRoom

**What to decide, discuss or inform:** Making a MR to ETC.

Ove had as homework submitted the MR NMEG 2021/03 to ebIX®/EBG. The three MRs sent to ebIX® are put on a pending list until the related BRSs will be reviewed.

## 8 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 WG-EDI.

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

**What to decide, discuss or inform:** Review of the MRs left from previous meeting.

Review and update of statuses in NMEG MR Overview document.

**Action:**

- Ove will send MR NME 2018/138 to Jon-Egil for resubmission to CIM EG
- Ove will make a MR for adding Scheduling Area to Object Aggregation, ref NMEG 2019/162
- Jon-Egil will verify status of NMEG 2020/183, NMEG 2020/184, NMEG 2020/186

## 9 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](http://www.ediel.org).

**References (links):** None.

**What to decide,**

**discuss or inform:** Update of BRSs and other documents if needed.

Ove informed that the NBS BRS for TSO-MO and the BRS for Nordic trading system had been published at [www.ediel.org](http://www.ediel.org). Together with the latter BRS, also Ediel versions of the xml schemas have been published.

### 9.1 BRS for Schedules: CIM version of Outage document

Jon-Egil informed that there is a new version of the Outage document on its way. An update of the BRS for schedules will probably be based on this.

**Continued action:**

- Jon-Egil will contact the OPC group, trying to get a common meeting to agree on how to implement the CIM version of the Outage Document.

### 9.2 NMEG Common rules and recommendations

Ove had as homework updated the Acknowledgement Document to latest CIM version in the NMEG Common rules and recommendations document:

**Action:**

- Ove will publish the NMEG Common rules and recommendations directly if there are no changes to it after the NMEG CIM XML subgroup meeting the coming Monday (March 15<sup>th</sup>).

Item closed (unless new comments occur after NMEG CIM XML subgroup meeting March 15<sup>th</sup>).

### 9.3 Update of NBS BRS for TSO-MO and NBS BRS for Master Data – Inclusion of BSP

*From Mika:*

Since the BSP model is being prepared, there are two changes which are needed from eSett's point of view to NBS BRS documents:

1. [NBS BRS for TSO-MO](#), and the Ediel ERRP Reserve Allocation Result Document, page 49:
  - Tendering Party: the content should also contain BSP as one of the parties

- the page 52-53 dependency matrix (table 9) should be also updated
  - all lines for Document Type A81, where the is “BRP” should be updated to “BRP or BSP”.
- 2. [NBS BRS for Master Data](#), and BRS for NBS Exchange of Master Data, page 29:
  - Receiver role needs to be updated with A46 (BSP).

**Conclusion:**

- The proposed changes from Mika were agreed.

**Action:**

- Ove will update the BRS for TSO-MO and NBS BRS for Master Data with related UserGuide, with inclusion of BSP, and send them to NMEG for one week of commenting before publishing them.

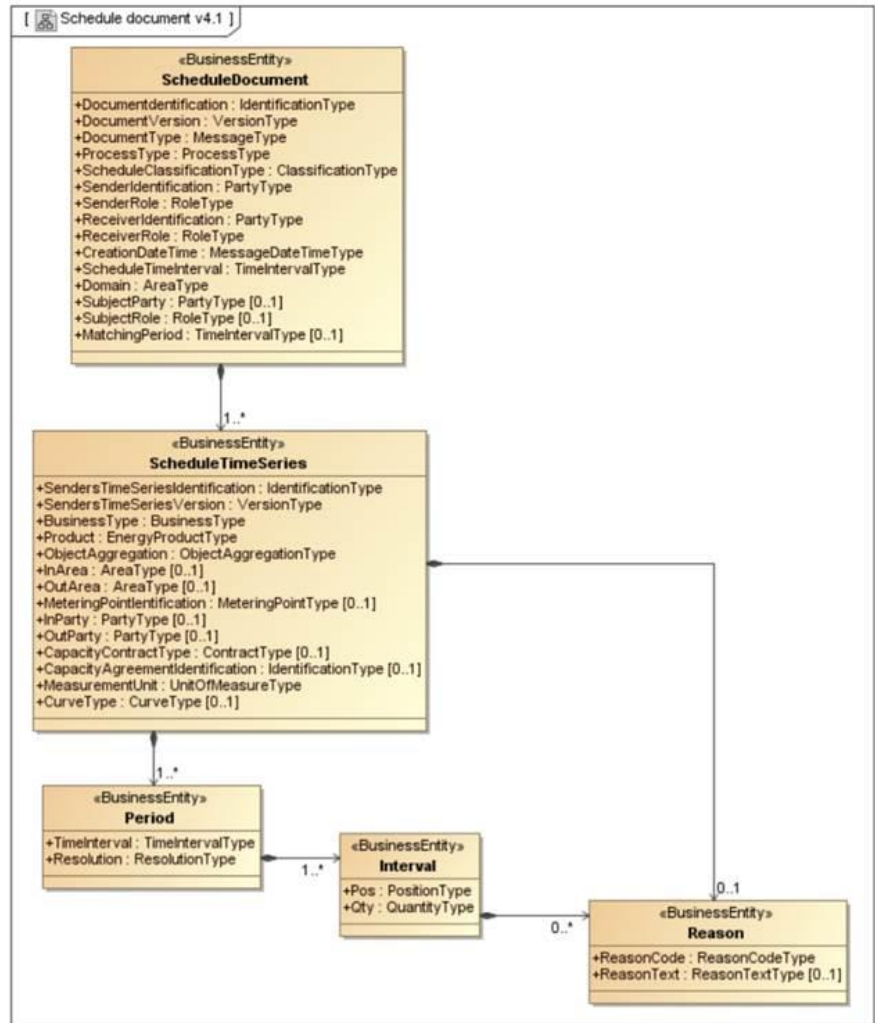
Item closed.

#### 9.4 Updates of NBS BRS for TSO-MO - Simulating losses in NBS PX Market Flow messages

From Mika:

eSett has received a change request for NBS regarding the PX Market Flows. The idea is to model the losses between electricity exchange between MBAs. So far the initial plan is, that NEMOs would continue to report the flows with implicit losses. At the moment flows are being reported with [NBS BRS for TSO-MO](#), ESS Schedule Document.

We would like to have NMGE's opinion, what would be the best way of handling this reporting with message. eSett has come up with a suggestion to utilize MeteringPointIdentification for purpose. Currently MeteringPointIdentification is part of the schema, but not part of the BRS:



eSett's suggestion is, that MeteringPointIdentification would be optional and used in those cases when the implicit losses would be reported by NEMO. And it would contain the MBA code of the area from who's owners perspective the values are read.

Questions:

1. would the MeteringPointIdentification be even suitable containing this information
2. does NMEG have suggestions/instructions how to report such values?

Response from Jon-Egil:

In general I would assume the best would be to do it the same way as with the MNA-flow, i.e. with business type B67 and B68?

Response from Ove:

I guess using Business type B67 (DC flow with losses) and B68 (DC flow without losses) is fine.

But I don't like the usage of a MBA (I guess this is a Market Balance Area) in the Metering Point Identification attribute. First, MBAs doesn't exist anymore in the Harmonised Role Model – It should

be a Bidding Zone or alternatively a Scheduling Area. Second this should be put in an Area or Domain attribute. Could we use the Domain in the document header?

Response from Jan (SE):

In "ScheduleTimeSeries" we find the attributes InArea and OutArea. What would be specified there, since you don't suggest using those attributes?

Response from Mika:

In short, eSett's goal is to handle this data exchange as follows:

3. without any changes to the current and existing reporting of NEMOs (current PX Market Flow)
4. as small change as possible to those borders, where this losses process would be applied (so far NO2-DK1 day-ahead).

From Tuomas P:

The target is to enable reporting with implicit losses

- without interfering the current reporting of PX Market Flows for the interconnectors
- with preferably only as minor changes for the interconnectors where the losses are applied (currently only NO2-DK1 for day-ahead)
- with a solution that could be easily extended to cover also other interconnectors.

The current reporting looks like this (in a table form) where each interconnector is twice in the time series part of the file (once on both directions).

Header section		
Document Identification	[1]	Document ID
Document Version	[1]	Version; fixed 1
Document Type	[1]	A55
Process Type	[1]	A01 A19 Z15
Schedule Classification Type	[1]	A02
Sender Identification	[1]	Market Operator ID
Sender role	[1]	A11
Receiver Identification	[1]	ISR ID
Receiver role	[1]	A05
Creation Date Time	[1]	Creation date/time
Schedule Time Interval	[1]	Start and end date of the time series
Domain	[1]	10Y1001A1001A91G

Time series section				
SendersTimeSeries Identification	SendersTimeSeries Identification	...	SendersTimeSeries Identification	SendersTimeSeries Identification
SendersTimeSeries Version ="1"	SendersTimeSeries Version ="1"	...	SendersTimeSeries Version ="1"	SendersTimeSeries Version ="1"
BusinessType ="A66"	BusinessType ="A66"	...	BusinessType ="A66"	BusinessType ="A66"
Product ="8716867000030"	Product ="8716867000030"	...	Product ="8716867000030"	Product ="8716867000030"

ObjectAggregation ="A01	ObjectAggregation ="A01	...	ObjectAggregation ="A01	ObjectAggregation ="A01
InArea =DK1	InArea =NO2	...	InArea =NO1	InArea =SE3
OutArea =NO2	OutArea =DK1	...	OutArea =SE3	OutArea =NO1
...	...	...	...	...
Qty ="175.3"	0.0	...	35.8	0.0
85.0	0.0	...	0.0	25.3
0.0	15.0	...	0.0	9.9
44.5	0.0	...	105.0	0.0

However, the support for the implicit losses would require having 4 timeseries per interconnector **and** some way to distinguish the timeseries from each other:

- a. by indicating whether the values are with or without losses
- b. by indicating the area from which perspective the values are valid (e.g. NO2).

One option would be use the proposed Business Types (B67 & B68) for the interconnectors with losses:

<b>Time series section</b>						
Senders Time Series Identification	Senders Time Series Identification	Senders Time Series Identification	Senders Time Series Identification	...	Senders Time Series Identification	Senders Time Series Identification
Senders Time Series Version ="1"	Senders Time Series Version ="1"	Senders Time Series Version ="1"	Senders Time Series Version ="1"	...	Senders Time Series Version ="1"	Senders Time Series Version ="1"
BusinessType ="B68"	BusinessType ="B68"	BusinessType ="B67"	BusinessType ="B67"	...	BusinessType ="A66"	BusinessType ="A66"
Product ="8716867 000030"	Product ="8716867 000030"	Product ="8716867 000030"	Product ="8716867 000030"	...	Product ="8716867 000030"	Product ="8716867 000030"
Object Aggregation ="A01	Object Aggregation ="A01	Object Aggregation ="A01	Object Aggregation ="A01	...	Object Aggregation ="A01	Object Aggregation ="A01
InArea =DK1	InArea =NO2	InArea =DK1	InArea =NO2	...	InArea =NO1	InArea =SE3
OutArea =NO2	OutArea =DK1	OutArea =NO2	OutArea =DK1	...	OutArea =SE3	OutArea =NO1
...	...	...	...	...	...	...
Qty ="175.3"	0.0	168.3	0.0	...	35.8	0.0
85.0	0.0	81.6	0.0	...	0.0	25.3
0.0	15.0	0.0	14.4	...	0.0	9.9
44.5	0.0	42.7	0.0	...	105.0	0.0

Another option could be to add some optional element for the time series that would give the indication for the values as was the initial proposal.

**Conclusion:**



- The solution using Business Type **B67** and **B68** was recommended. Mika will take this recommendation further.

Item closed.

## 10 Resolution for timeseries with only one observation

**Background:** Jan (SE) asked what resolution to use for timeseries with only one observation. This is typically a problem for weather data, e.g. for a single temperature. If you want the time stamp on a minute resolution, Jon-Egil suggest using a resolution of one minute and specifying the time stamp as the start date/time and having a curve type “**A02** point value”.

**References (links):** None.

**What to decide, discuss or inform:**

Status after discussion in CIM EG for how to handle Curve Type **A02** and a resolution of 0 seconds (PTOS) to the Weather Document.

Jan (SE) reported that he has brought the question to the CIM EG ESMP subgroup, who has agreed to update the weather document. The usage description will probably be discussed at the next CIM EG ESMP subgroup meeting.

A status after the discussion in CIM EG ESMP subgroup will be put on our next NMEG agenda.

## 11 Best practice for version numbering

**Background:** Fedder has a task in CIM EG to come up with a best practice for version numbering, however delegated to Tage. It seems that the conclusion may be that also the Nordics will start using the version.

**References (links):** None.

**What to decide, discuss or inform:** Review of “Best practice for version numbering document”. Also, the following definition from the Scheduling BRS needs to be verified:

IEC CIM Attribute	Cl.	Code and description
revisionNumber	[1]	<p>The identification of the version that distinguishes one evolution of a document from another.</p> <p>Senders unique version.</p> <p><b>Note:</b> All documents where the combination of mRID and revisionNumber is unique are valid. If the same mRID is used earlier, the revisionNumber must be larger than the previous.</p>

Tage had distributed a revised version of the ENTSO-E “EDI best practices” document that included a new chapter covering the usage of revisionNumber:

The new text was reviewed, and it was proposed two updates of the text:

In the **Nordic Region** it is standard to keep the revision number to 1 and change the document mRID for each new evolution of the document.

No matter which method is used **As long as the Market Document mRID is unchanged**, the receiver should expect an evolution of the document to replace the former version.

**Conclusion:**

- Jon-Egil will submit the proposed changes to CIM EG. A status, including review of text for the revisionNumber in the NMEG BRSs, will be added to the next NMEG meeting.

Item closed.

**12 CIM EG and ebIX® Area project**

**Background:** The proposed project plan for an ebIX® and CIM EG Area project was approved by ebIX® Forum at the forum meeting November 17<sup>th</sup>. ebIX® also agreed to pay for a secretary in such a project.

**References (links):**

**What to decide, discuss or inform:** Status from CIM EG if they can approve a common ebIX® and CIM EG project.

**Continued action:**

- Jon-Egil will investigate if CIM EG is interested in a common project with ebIX®.

### 13 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](http://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, that should be published at [www.ediel.org](http://www.ediel.org).

Jan (SE) informed that he has made the following non-complete list:

Document	Schema and version	
PublicationDocument	urn:ediel.org:neg:ecan:publicationdocument:1:0	
ReserveAllocationResultDocument	urn:ediel.org:neg:errp:reserveallocationresultdocument:1:0	
ActivationDocument	urn:entsoe.eu:wgedi:errp:activatondocument:5:0	Not complete
Confirmation_MarketDocument	urn:iec62325.351:tc57wg16:451-2:confirmationdocument:5:0	
Schedule_MarketDocument	urn:iec62325.351:tc57wg16:451-2:scheduledocument:5:0	
Capacity_MarketDocument	urn:iec62325.351:tc57wg16:451-3:capacitydocument:7:1	
Capacity_MarketDocument	urn:iec62325.351:tc57wg16:451-3:capacitydocument:8:0	
Publication_MarketDocument	urn:iec62325.351:tc57wg16:451-3:publicationdocument:7:0	
ReserveBid_MarketDocument	urn:iec62325.351:tc57wg16:451-7:reservebiddocument:1:0	
Acknowledgement_MarketDocument	urn:iec62325.351:tc57wg16:451-1:acknowledgementdocument:7:0	Not complete

**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](http://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.

**Action:**

- Ove will update Appendix B with the Swedish list.

### 14 NMEG CIM-XML Subgroup

**Background:** At the NMEG meeting November 2019, it was agreed to establish a NMEG CIM-XML Subgroup that will make Nordic CIM based XML documents. The following tasks are prioritised (updated at NMEG meeting March 2020):

- a) Update the NMEG model with the latest ebIX® extension;
- b) Make a road map for making CIM documents for the Danish Datahub version 3.0;
- c) Continue with NBS documents:
  1. NBS ebIX® based documents;
  2. NBS documents based on older ENTSO-E schemas;
  3. NBS master data documents.

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

#### References (links):

**What to decide,  
discuss or inform:** Status.

#### *14.1 Status for alignment of Validated measure data from an Exchange Point in ebIX®/EBG*

No conclusion in EBG yet. The item will be continued at the next NMEG meeting.

Christian stressed that he is missing a Nordic position regarding the structure to use for future projects, but for the foreseeable future it seems unlikely that the Nordic datahubs will agree on a common position.

One main difference between the ebIX® proposal for timeseries structure and how timeseries is used by ENTO-E is that ebIX® has an extra level i. This way several timeseries can be sent for the same Accounting Point, such as with different products or directions.

Jan (SE) noted that the Swedish datahub has specified the extra level, see:

<https://www.svk.se/siteassets/aktorsportalen/elmarknad/hubben/paus-block-bilder/meter-value---brs.pdf> (Meter value BRS)

<https://www.svk.se/aktorsportalen/elmarknad/elmarknadshubben/projektdokumentation/> (General documentation)

Also the Finish datahub has a split, i.e. can send several timeseries for each Accounting Point, see:

<https://palvelut.datahub.fi/api/documents/file/0-232449-1-294924> (Datahub events, see chapter 5.1)

<https://palvelut.datahub.fi/en/datahub/dokumentaatio-ja-materiaalit> (General documentation)

#### *14.2 Report from NMEG CIM-XML Subgroup; GoToMeeting February 15<sup>th</sup>*

- Participants Christian, Jan (DK), Jan (SE) and Ove.
- Shall we agree more meetings – no meetings have been scheduled after February 22<sup>nd</sup>.
  - o We continue with Mondays from 10:00 to 11:30 until end of April, but with Teams instead of GoToMeeting.

- Preparations for EBG meeting today at 14:00 – suggested Nordic position:
  - At a review of the validated data for Exchange Points in the Nordic Market Expert Group (NMEG), it was stressed that the validate measured data document should contain an In Area and an Out Area to determine the direction, among others because of:
    - In Area and Out Area is currently used to determine the direction in documents sent from all Nordic countries to the Nordic imbalance settlement system (NBS) for aggregated data, hence we would like to see the same principle used for validated data from Exchange Points.
    - Also the Finish datahub will use InArea and OutArea from Exchange Point.
    - The same principle is used in ENTSO-E documents, such as Capacity auction specification document, Capacity document, Allocation result document and Publication document.
    - However, there are also other principles in use, such as:
      - Some ENTSO-E documents uses other principles, such as the Balancing Document that have an Acquiring Domain and a Connecting Domain at Time Series level and a Flow Direction at Point (observation) level.
      - The Norwegian Elhub uses Exchange Point ID, MGA ID and Direction.
      - In the Danish Datahub an Exchange Point ID is used where Areas and direction are master data, i.e. if there are exchange in both direction, two Exchange Points are used.
  - Without the In Area and Out Area you must know the structure in advance, i.e. it is dependent on master data. For instance, the NBS “Basse system” is constructed so that some of the area structures are created when the messages are received. E.g. if the document contains the Exchange Point ID and the In- and Out MGAs, then the structure can be created automatically by the recipient – no master data message must be sent in advance.
  - Hence, NMEG proposes to include In Area, Out Area as an option to using Direction for Exchange Points in the validated data for Exchange Points document. I.e. making them dependent on national rules.
- Ove suggest that we in CIM based RSM 022 Accounting Point characteristics, remap the following:
  - AccountingPoint\_Domain to AccountingPoint\_MarketEvaluationPoint
  - Parent\_Domain to Parent\_MarketEvaluationPoint

However, this implies that we will have to extend the CIM model by adding an association from MarketEvaluationPoint to itself.

**Conclusion:**

- We add an association from MarketEvaluationPoint to itself and linked, child and parent AP to MarketEvaluationPoint instead of Domain.
- Ove also propose to use the ESDMP MarketEvaluationPoint instead of DKExt\_MarketEvaluationPoint in the Accounting Point Characteristics Document and in the Characteristics of a Customer at an AP. Ove has already changed this for the Accounting Point Characteristics Document.

Instead of showing the Danish extension in the documents and xml schemas, Ove propose to show it the ESDMP ACC class diagram with a special colour.

**Conclusion:**

- The proposal was agreed.

**Continued action:**

- Jan will make a list over missing documents in the mapping memo.
- Ove will update the CIM model according to the conclusions above.

*14.3 Report from NMEG CIM-XML Subgroup; GoToMeeting February 22<sup>nd</sup>*

- Participants Christian, Jan (DK), Jan (SE) and Ove.
- Ove asked if we should add a schemeAgency and/or a listAgency as optional attributes for code lists and/or ID schemes in the ESDMP, or shall we await a proposal from the Dutch project?

**Conclusion:**

- For the time being we continue as is, i.e. without adding a schemeAgency or a listAgency.
- We await an ebIX<sup>®</sup>, ENTSO-E ESMP WG and WG16 discussions on the topic.
- Jan (SE) presented the latest XSDs for Exchange Points he is working on, which will be used for exchanges between Sweden and Germany.
- Jan (DK) informed about missing BRSS:
  - 1<sup>st</sup> priority:
    - RSM-006: Forespørg om stamdata
    - RSM-015: Anmod om måledata på målepunkt
    - RSM-016: Anmod om aggregerede måledata
    - RSM-034: Fremsend prisliste
    - RSM-035: Forespørg om prisliste
  - 2<sup>nd</sup> priority (like RSMs in parentheses):
    - RSM-017: Anmod om engrosydeler - (RSM-016)
    - RSM-019: Fremsend beregnede engrosydeler - (RSM-014)
    - RSM-021: Ændring af målepunkt stamdata - (RSM-022)
    - RSM-023: Forespørg om målepunkt stamdata (svar) - (RSM-022)
    - RSM-027: Ændring af kundestamdata - (RSM-028)
    - RSM-029: Forespørg om kunde stamdata (svar) - (RSM-028)
    - RSM-030: Ændring af afregningsstamdata - (RSM-031)
    - RSM-032: Forespørg om afregningsstamdata - (RSM-031)

**Actions:**

- Ove will add the RSMs above to the mapping document (memo).
- Jan (SE) will investigate with WG16 (WG14) if the next Reading Date, as currently agreed, can use the format MMDD.

*14.4 Report from NMEG CIM-XML Subgroup; GoToMeeting March 1<sup>st</sup>*

- Participants Christian, Jan (DK), Jan (SE) and Ove.
- Ove had as action made the following new RSMs:

RSM-006: Forespørg om stamdata  
RSM-015: Anmod om måledata på målepunkt

and some related questions were resolved.

- Ove suggested that we look at “Notify Measure Data for a Metering Point” and “Notify Aggregated Time Series”, to see if they are in line with the Validated measure data from ebIX®. However, the Validated measure data is not yet finally decided in ebIX®, hence we will come back to the question.
- The “Notify Measure Data for a Metering Point” was renamed to “Notify Validated measure data” and “Request Metering Point measure data” was renamed “Request Validated measure data”.

**Actions:**

- Ove will continue adding missing RSMs to the mapping document (memo).

*14.5 Report from NMEG CIM-XML Subgroup; GoToMeeting March 8<sup>th</sup>*

- Participants Christian, Jan (DK), Jan (SE) and Ove.
- Ove had as action made the following new RSMs:
  - o RSM-015 Reject request validated measure data
  - o RSM-016: Request aggregated measure data
  - o RSM-016: Reject request aggregated measure data
  - o RSM-034: Fremsend prislister
- During this work, the following new associations and classes were added:
  - o New association from MktActivityRecord to Domain.
  - o New association from MktActivityRecord to MarketParticipant.
  - o ChargeComponent / equation is associated to ChargeType.
- In the ebIX® BRS, the Request Validated measure data has an Installation ID attribute. Ove asked at the EBG meeting March 1<sup>st</sup> how this shall be mapped, with the following answer:
  - o The Installation is NOT an (S)AP, but a physical object (like Resource, although a Resource can be part of an Installation).
  - o The Installation is probably not to be mapped to either Market Evaluation Point nor Usage Point, but to a physical object such as an Asset, an End Device or similar. The Installation is linked to an (S)AP (Market Evaluation Point).

**Conclusion:**

- o We will map the Installation ID to RegisteredResource / mRID
- From Jan (SE), for information:

In IEC standard 62361-100 (CIM profiles to XML schema mapping), I read (clause 5.2.1):

“It is a good practice to include the name space of the CIM canonical model that is used for defining the contextual model. Note: in case of a CIM extended canonical model, the extensions are defined in other namespaces that could be included too.”

We do now have a CIM extended canonical model. Both with ebIX® extensions and Danish extensions. I will now send a question to André and Jean-Luc asking how their

tool (CIMSyntaxgen) can be used when having a “CIM extended canonical model” where the extensions are supposed to be put into other namespaces according to IEC 62361-100. I.e. perhaps possible using one or the other of the choices in the menu. And/or if they know of someone having a “CIM extended canonical model” that uses their tool (beside us). Because it is not obvious how to handle the “other namespaces” with the extensions to CIM in the XSD:s. Examples would be valuable.

**Actions:**

- Ove will continue adding missing RSMs to the mapping document (memo):
  - o 1<sup>st</sup> priority:
    - RSM-035: Forespørg om prisliste
  - o 2<sup>nd</sup> priority (like RSMs in parentheses):
    - RSM-017: Anmod om engrosydeler - (RSM-016)
    - RSM-019: Fremsend beregnede engrosydeler - (RSM-014)
    - RSM-021: Ændring af målepunkt stamdata - (RSM-022)
    - RSM-023: Forespørg om målepunkt stamdata (svar) - (RSM-022)
    - RSM-027: Ændring af kundestamdata - (RSM-028)
    - RSM-029: Forespørg om kunde stamdata (svar) - (RSM-028)
    - RSM-030: Ændring af afregningsstamdata - (RSM-031)
    - RSM-032: Forespørg om afregningsstamdata - (RSM-031)

## 15 Status for update of [www.ediel.org](http://www.ediel.org)

**Background:** At the NMEG meeting March 2020, it was agreed to add a picture to the front page of [www.ediel.org](http://www.ediel.org).

Further there is a need to upgrade the PHP version and make a “face lift” of the web site.

**References (links):** [www.ediel.org](http://www.ediel.org).

**What to decide,**

**discuss or inform:** Status.

Teemu and Ove had upgraded to a newer PHP version.

**Continued actions:**

- Jon-Egil find the original picture and include the whole of Denmark.
- When a picture is ready, Teemu will add it to [www.ediel.org](http://www.ediel.org).
- Teemu volunteered to make a few proposals for new themes and sent to NMEG for comments by mail.



## 16 Review of documents from CIM EG 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 EG 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 EG subgroups that is of interest for the Nordic market.

No new documents.

### 16.1 Naming of UnitSymbol in ESMP

Bent Atle has noted that the naming of UnitSymbol not is consistent. The problem is that the UnitSymbol datatype and the UnitSymbol «Enumeration» has the same name.

Jan (SE) has brought it up in WG16 and it is seen as ESMP implementation issue. Alvaro has promised to bring the issue up in the CIM EG ESMP subgroup.

A status will be added to next NMEG meeting.

## 17 Information (if any)

Nothing extra reported.

## 18 Next meetings and decide if next meeting will be a face-to-face meeting or GoToMeeting

NMEG Corona GoToMeetings:

- Wednesday April 21<sup>st</sup>, 10:00 – 12:00 and 13:00 – 15:00, GoToMeeting
- Thursday May 20<sup>th</sup>, 10:00 – 12:00 and 13:00 – 14:00, GoToMeeting
- Wednesday June 23<sup>rd</sup>, 10:00 – 12:00 and 13:00 – 14:00, GoToMeeting

NMEG scheduled face-to-face meetings<sup>1</sup>:

- None scheduled

NMEG CIM-XML subgroup GoToMeetings:

- Every Monday from 10:00 to 11:30, from Monday January 11<sup>th</sup> until Monday February 22<sup>nd</sup>.

## 19 AOB

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<sup>1</sup> Unless otherwise explicitly stated, the face-to-face meetings start at 09:00 (CET) the first day and end 16:00 (CET) the second day.

## 19.1 Swedish Flexibility project

From Jan (SE):

In Sweden we have running "Flexibility projects" that now want to use CIM based messages for the exchanges to/from the flexibility platforms. A company has given an offer where they would like to make these CIM based messages for the project(s).

However, most of what will be exchanged there, will most likely also be used outside the exchange to/from flexibility platforms. And that kind of information will also be exchanged to/from other flexibility platforms in other countries.

So, I am afraid that we in Sweden will get a "standard" for the information exchange to/from flexibility platforms that:

- a) May not be possible to use in future projects, that will suggest other "standards"
- b) Will not be used outside Sweden, since you have your own "standard" in your national flexibility project(s)
- c) Will be unnecessarily different from other similar exchanges that we will have to/from TSOs, European platforms, datahubs etcetera.

To be more concrete, the "CIM Model Specification" part in the offer, suggest five phases (in the offer, they think each phase will use the same amount of hours, but I doubt that...):

- Meter
- Plan
- Forecasting
- Bids
- Purchases

Regarding Bids, I have already described for the project how to use IEC 62325-451-7 (based on a draft). So that is already covered, I would say. Even though I expect there might be some updates since it is now a standard, and not a draft standard.

One question is then, what can NMEG do?

Another question: Are you having similar flexibility projects in your countries that also creates CIM based exchange formats?

A third question: How much will differ from other exchanges of plans, forecasts etcetera, that e.g. we as TSOs are handling?

One difference could be that for flexibility it would be just "power", since it is DSOs that are involved, and they are not allowed to trade energy.

According to the (rather limited) information that I have received, there are "existing machine readable formats" for

- Measurement data
- Plan(s)
- Forecast

And that the project is developing "machine readable message formats" for

- Flex purchase(s)
- Bid(s)

What I then understand is that the offer (if accepted by the project) would result in a conversion of the above to CIM based formats. In the offer it is suspected that it will be three use cases for each phase. That could also be questioned, but I don't have the details.

At least I would like NMEG to:

- Suggest already existing standards to be used in the project, especially BRS:s published by NMEG (which ones??)
- Suggest the project to follow what will be published by NMEG during this spring (if we publish new documents or update existing ones)

Myself, I will also:

- Suggest that the project create BRS:s that typically includes sequence diagrams, activity diagrams, use case diagrams, contextual and assembly models, attribute usage and dependency matrix – inspired by the BRS:s from NMEG.

And I also would like the project to

- Provide NMEG (through Svenska kraftnät) with a draft of the result from the project describing what is suggested to be extensions or changes to NMEG BRS:s, e.g. new codes, new attributes etc.
- Provide NMEG (through Svenska kraftnät) with a draft (in a BRS, or BRS:s) of the result from the project describing other exchanges, not (yet) described by NMEG.

It will most likely be myself that will comment these drafts – we will see what I will bring further to NMEG.

Finally, for the “measurement” phase it could very well be IEC 61970 or 61968 that will be used in the project. Then for other phases it would be more relevant to see: what is available from NMEG and/or ENTSO-E?

From discussion:

- Jon-Egil was worried and would like to see a more international approach.
- There are two ongoing projects in Sweden, among others one called Stockholm flex and Vattenfall is the candidate for making the CIM documents.
- Maybe NMEG should offer support to the Swedish projects to harmonise what they do with NMEG, ENTSO-E etc.
- The outcome from the Swedish projects should be a BRS that can be input to NMEG for making the schemas.
- The proposal above was agreed.

**Action:**

- Jan (SE) will contact the Swedish project and offer them NMEG's help in making the needed CIM based xml schemas.

### *19.2 Update of BRS for Trade*

Jan (SE) had found an editorial error in the BRS for Trade, which was corrected.

**Action:**

- Ove will publish the BRS for Trade directly.

## Appendix A Overview of Nordic memberships in international standardisation bodies

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

### Abbreviations:

CCC	Coordinated Capacity Calculation (project under CIM EG)
CGMES	Common Grid Model Exchange Standard (subgroup under CIM EG)
CIO/LIO	Central Issuing Office / Local Issuing Office
CSSG	Communication Standards (subgroup under CIM EG)
Dc	ENTSO-E Digital committee
EBG	ebIX® Business Group
EEAT	ENTSO-E Enterprise Architecture Team (subgroup under Dc)
ESMP	European Style Market Profile (subgroup under CIM EG)
ETC	ebIX® Technical Committee
HG	ebIX®, EFET and ENTSO-E Harmonisation Group
MC	ENTSO-E Market Committee
MIT	Market Integration and Transparency (subgroup under MC)
NEX	Nordic ECP/EDX Group
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 <sup>2</sup>	2.0 (CIM)				
4.	NEG Bilateral Trade Structure Document	NBS BRS for Master Data	1.0					
5.	NEG Party Master Data Document	NBS BRS for Master Data	1.0					
6.	NEG Resource Object Master Data Document	NBS BRS for Master Data	1.1					
7.	ENTSO-E Acknowledgement Document	NEG Common XML rules and ...	6.0					7.0 (not complete)
8.	ENTSO-E ERRP Planned Resource Schedule Document	NBS BRS for TSO/MO	5.0					
9.	NEG ERRP Planned Resource Schedule Document	BRS for Schedules						
10.	ENTSO-E ERRP Resource Schedule Confirmation Report	BRS for Schedules	No NEG version					
11.	ENTSO-E ESS Anomaly Report	BRS for Schedules	No NEG version					
12.	ENTSO-E Outage document	BRS for Schedules	No NEG version					
13.	NEG ESP Energy Account Report Document	NBS BRS	1.0					
14.	ENTSO-E ESS Confirmation Report	NBS BRS	4.1					5.0
15.	ENTSO-E ESS Schedule Document	a) NBS BRS b) NBS BRS for TSO/MO	4.1					5.0
16.	ebIX® Aggregated Data per MGA for Settlement for Settlement Responsible	NBS BRS	2013pA					
17.	ebIX® Aggregated Data per Neighbouring Grid for Settlement for Settlement Responsible	NBS BRS	2013pA					
18.	ebIX® NEG Confirmation of Aggregated Data per Neighbouring Grid for ISR	NBS BRS	2013pA					
19.	ebIX® Validated Data for Settlement for Aggregator	NBS BRS	2013pA					
20.	NEG ECAN Allocation Result Document	BRS for Trade						
21.	NEG Currency Exchange Rate Document	BRS for Trade						
22.	NEG Auction Specification	BRS for Trade						
23.	NEG Spot Market Bid Document	BRS for Trade						
24.	ENTSO-E ERRP Reserve Bid Document	BRS for Trade						1.0
25.	ENTSO-E ERRP Activation Document	BRS for Operate						5.0 (not complete)

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

26.	Capacity Market Document	???							<b>7.1, 8.0</b>
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