

Minutes: NMEG meeting Date: Wednesday June 19 th Time: 10:00 – 14:00 Place: GoToMeeting	<div>NMEG</div> <div>Nordic Market Expert Group</div>
June 21 st , 2024	

Present: Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (convenor)
Mario, Elhub
Ove, Edisys (secretary)
Søren, Nordic RCC
Teemu H, Fingrid
Teemu K, Finish datahub

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
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

Attachment: None

1 Approval of agenda

The agenda was approved with the following additions:

- Status for EA16 version of CIMContextor/CIMSyntaxGen, see item 14.1.

2 Approval of previous meeting minutes

The previous meeting minutes were approved after addition of some comments from Mario related to item 17.1 and some editorial corrections from Jan (SE).

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.

Gerrit and Ove participated at a JWG/TF3 meeting the day before, probably as the last effort of transferring ebIX® knowledge to JWG.

Item closed.

4 Alternative to Unicorn Makes (ECP) End Point in the GO language from Energinet (Henrik)

Background: Energinet has developed an alternative to the Unicorn Makes (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.

Jon-Egil informed that Energinet has decided to use the new version internally. It is being discussed if this also shall be a common Nordic version – a decision is expected after summer.

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.

Jon-Egil showed a PowerPoint presentation related to Dynamic CIM:

- The plan is using the Capacity document and the Energy Prognosis document, the latter with addition of Reason class and a flowDirection attribute in the Time Series class.
- In the beginning the Reason code will be used for “Timegate” (D-2 20:00, D-1 07:00, D-1 16:00)
- In the future the Timegate in the Reason class may be change to the new timeFrame attribute in the EnergyMarket class. The reason for not using the EnergyMarket class now is that the project wants to use the same principle in the Capacity document and Energy Prognosis document.

NMEG will follow the project.

6 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. Further, 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 from NEX.

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

This is an ongoing task where the actual work is done in NEX. Jon-Egil is following the task as NMEG representative.

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.*

This is also an ongoing task where the actual work is done in NEX. Jon-Egil is following also this task as NMEG representative.

7 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 BRs, MRs for CIM and/or ESMP, etc. All based on Nordic RCC needs.
- Søren informed that he is trying to establish an internal RCC forum on CIM modelling.

8 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.

8.1 Alignment of NMEG BRSs and NBM BRSs/IGs

Ove had as action asked Bent Atle for a copy of his EA NBM models to have them available for NMEG. The NBM Repo for Bent Atle is stored on Oves PC.

Ove had started on alignment of documents in the Nordic determine transfer capacity BRS, but need some clarifications:

NBM BRS	NBM Document	CIM Document	NMEG BRS	Comments
Non	Capacity Current NTC TSO	Capacity_MarketDocument	Determine transfer capacity BRS	
Non	Capacity Day Ahead NTC TSO	Capacity_MarketDocument	TBD	Action: <ul style="list-style-type: none"> Jon-Egil will verify if the doc. Is in use
Non	Capacity Intraday NTC TSO	Capacity_MarketDocument	TBD	Action: <ul style="list-style-type: none"> Jon-Egil will verify if the doc. Is in use
AOF Nordic Libra¹	mFRR ATC TSO	Capacity_MarketDocument	Determine transfer capacity BRS	As earlier agreed.
	mFRR Remaining ATC-AOF	Capacity_MarketDocument	Determine transfer capacity BRS	Earlier proposed in the Trade BRS.

Continued action:

- Ove will continue updating NMEG BRSs with content from the NBM BRSs/IGs

9 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,

¹ AOF = Activation Optimisation Function

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

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

Conclusions from NMEG meeting May 28th, 2024:

- When we move to CIM we will simplify the codes according to new principles for how to use codes.
- Also, in the future, we will investigate if we can make a structure where we can report both ramping and block products.

Ove had as action added the new Reason code to the NBS BRS for TSO-MO and to the NMEG code list. The two documents were sent to NMEG for one week of commenting and publish June 12th.

Ove had as action merged the NBS BRS and NBS BRS for TSO-MO into one. A few comments were resolved.

Action:

- Ove will send the new BRS to NMEG for one week and thereafter replace the two previous BRSs with the new.

Item closed.

9.2 CIM for NBS

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

Still to investigate:

- Is the association without a name (the “MGA responsible for the measurements”) still needed or can we use the MarketParty (DSO) instead?

Continued actions:

- Ove will make an MR for addition of the following to the FSKAR MeteringData_MarketDocument:
 - Add EnergyCharacteristics class and the flowCategory attribute (to be used for “Validated data for settlement for Aggregator”)
 - Add a quality attribute (to be used for “Aggregated data per neighbouring grid”)
 - Add an association from Point to Quantity called “DeltaQuantity” (to be used for “Confirmation of aggregated data per neighbouring grid”)
- Ove will make MRs for the additions following to the EAR document:
 - Change cardinality of the MarketParticipant class to [0..*] and add a Role class
 - Add EnergyCharacteristics class and the flowCategory attribute
 - Add Settlement method to the EnergyCharacteristics class and add it to the EAR
 - Add MktPSRType
 - Add a Reason code to TimeSeries to be used for Normal/minor (Production type)

10 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.

10.1 Exchange of settlement information between the Nordic TSOs

Background: NMEG has made a first draft of a NMEG BRS for TSO-TSO settlement (release candidate - for test implementation).

References (links): None.

What to decide,

discuss or inform: Finalise the BRS.

Ove had as homework verified that the definition of “Nordic area” in the Business partner view and in the MarketDocument description tables are the same in all NMEG BRSs. The BRS for Determine Transfer Capacity and BRS for Trade were updated but not yet published.

Ove had also cleaned up the BRS for TSO-TSO settlement and sent it on one week of circulation for comments to NMEG. However, on June 10th, Jan (SE) informed:

In Sweden we had prepared for using the two messages, but not yet programmed everything, so it would still be possible to change. But Friday last week Energinet informed:

After closer investigation into the **FSKAR/ERRP** matter, we have decided that we prefer the current/old version of the BRS, where there is a split between FSKAR and ERRP, as it is in line with the ENTSO standard.

Hence, the publication of the BRS was postponed. Instead Ove added the ERRP Reserve Allocation Result Document again and kept other more editorial updates from the previous version.

Continued action:

- Ove will make a MR for addition of EnergyMarket and the timeFrame attribute to the FSKAR settlement document, e.g. for future use between TSOs
- Ove will Publish the latest version of the BRS for TSO-TSO settlement.

10.2 Nordic determine transfer capacity BRS vs ENTSO-E implementation guides

Ove had added the new chapter “1.3 About Nordic Ediel BRSs” to all NMEG BRSs, however not publish them yet.

Item closed.

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

Ove had as action sent the BRS for Nordic Trading System on circulation for comments to NMEG for one week and published it on June 14th.

Item closed.

10.4 NMEG CIM master data documents

Action:

- Ove will make a first draft of a Nordic Master data BRS

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

At our meeting in January, 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. Further, at our previous meeting Henrik informed that he has asked internally and that he is waiting for the response.

Continued action:

- Denmark will investigate if Business types **A10** and **A12** still are used for Ancillary services schedules in Denmark.
- Ove will publish the BRS after circulation for comments to NMEG for one week.

10.6 Update of NMEG code list

10.6.1 Shall we deprecate Business Type code “**Z76** Day ahead prices used for CZC forecast calculation”

Decide if the Business Type code **Z76** shall be deprecated or kept. If kept, can we find a better description of the 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.)

Continued action:

- Business experts at NRCC know of no usage. Søren to scan data once available.

10.7 Status for new Nordic extended Schedule Outage Market Document

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

Nothing new reported.

10.8 Exchange of dynamic “HVDC-run-profiles”

From Jan (SE):

The input, so far, tells me “yes” (i.e.: the new CIM HVDCLink document is OK), so then we can decide that Ove should “make an assembly model and generate an xml schema.”

What we need are codes for, at least, Message Type, Process Type and Business Type.

Here is an example of what the message should be able to tell:

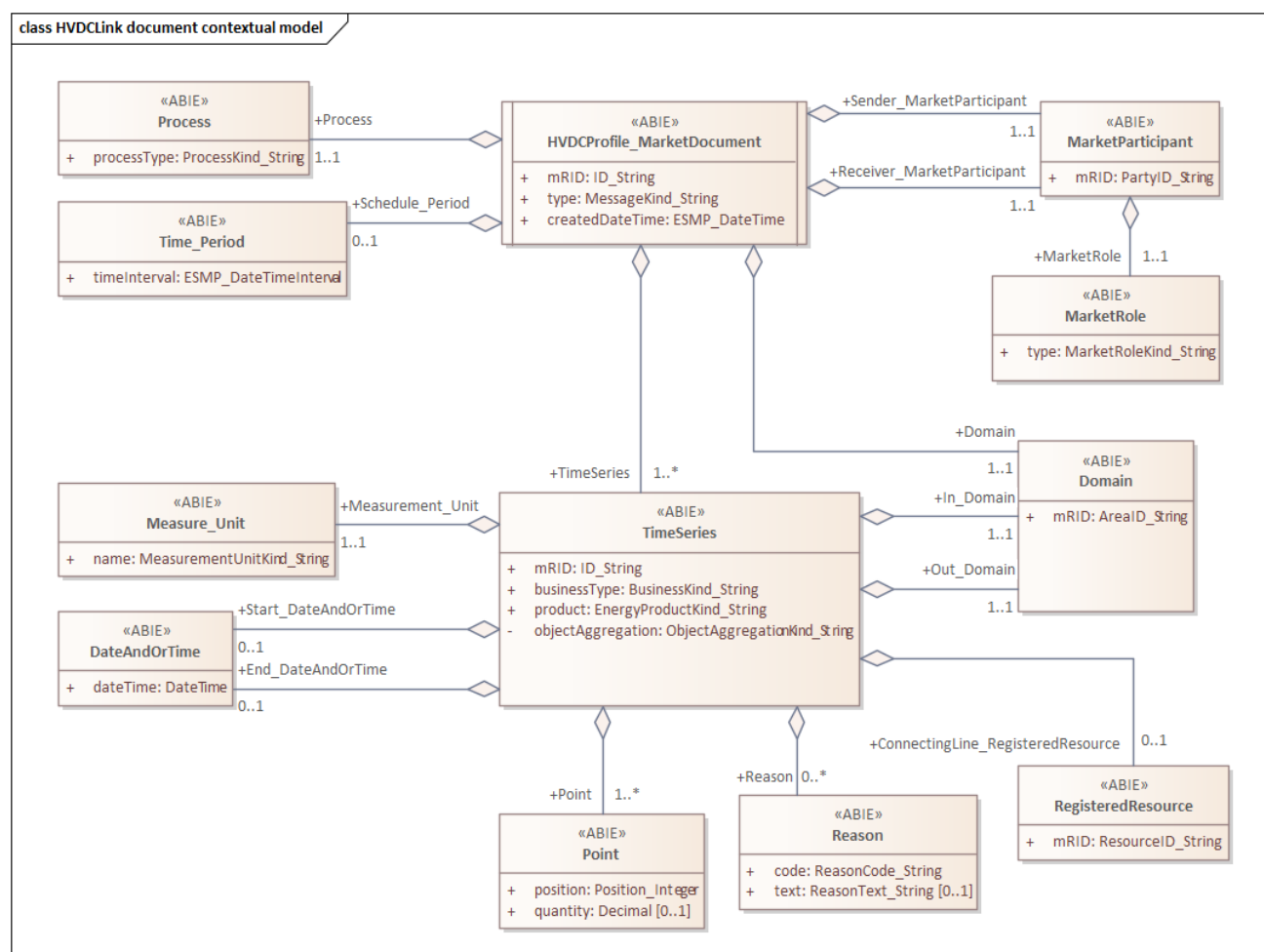
Direction for example either SE3-FI or FI-SE3

Total Flow	FS1 Flow	FS2 Flow
+1200,0MW	+400,0MW	+800,0MW

+1199,9MW	+400,0MW	+799,9MW
+1198,8MW	+399,9MW	+799,9MW
.....
-1198,8MW	-399,9MW	-799,9MW
-1199,9MW	-400,0MW	-799,9MW
-1200,0MW	-400,0MW	-800,0MW

In total, in this mapping there will be 2 x 12000 entries = 24000 entries.

This means that Ove will make an assembly model and an xml schema from the contextual model we drafted at the previous NMEG meeting:



We needed:

A new Message Type:	Z45 HVDC Load profile – A document for sending the profile for planned load distribution between two or more HVDC cables.
A new Process Type:	A01 Day ahead
Business Type:	ZA1 HVDC Power distribution – A profile for planned load distribution between two or more HVDC cables.

New codes were reserved but publication will be done after verification at next NMEG meeting.

Action:

- Ove will make an assembly model and generate an xml schema.

11 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.

From Jan (SE):

The code list RoleType from ENTSO-E and in ESMP is typically having the description "Refer to role model definitions in the ENTSO-E Harmonised Role Model Document."

That text has been wrong for years.

Since the role model now is maintained under the JWG with the DSO Entity, I would suggest changing such texts, but that ESMP also verifies that the descriptions – when further specified – are up to date with what currently is stated in the role model.

See further a draft MR that may be sent from NMEG, or just from me (and Oscar?) to CIM EG/ESMP.

The MR was reviewed and updated.

Status:

MR #		Status
NMEG 2022/205 (CIM WG)	Addition of a Category attribute to TimeSeries in IEC62325 and ESMP	<p>20220907:</p> <ul style="list-style-type: none"> Forwarded by Ove to Jon-Egil for submission to CIM WG <p>20221006:</p> <ul style="list-style-type: none"> Ongoing <p>20221031:</p> <ul style="list-style-type: none"> The MR is awaiting approval in the ENTSO-E ESMP SG before it is sent to CIM EG, hence it will probably still take a few weeks before it is handled <p>20230124:</p> <ul style="list-style-type: none"> Not agreed – Jon-Egil, Jan (SE) and Alvaro will draft a new proposal. To be continued <p>20230222, 20230411, 20230830, 20231101, 20231205, 20240110, 20240205, 20240227, 20240506 and 20240619:</p> <ul style="list-style-type: none"> Ongoing
NMEG 2024/212	Add Related_MarketParticipant to Activation Market Document	<p>20240205, 20240227, 20240506 and 20240619:</p> <ul style="list-style-type: none"> Ongoing.

Continued and new action:

- Ove will make a new MR based on the previous NMEG 2022/205. We will ask for the category attribute in the EnergyMarket class in both ESMP and Market, instead of in the TimeSeries class.
- Ove will align the name and definition of roles in HEMRM and the ENTSO-E code list in the "Role Type MR" from Jan (SE) - to be reviewed at the next NMEG meeting.

12 Report from JWG, with a special focus on datahub topics (fixed item on the agenda)

Background: The Joint Working Group (JWG) is formed from experts being nominated by the DSO Entity and ENTSO-E. In addition to those experts, three different Task Forces (TFs) with nominated representatives from both organisations have been created with the aim of supporting the goals of the JWG. The main tasks of these TFs are:

TF1: *"Monitoring 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: *"Developing Implementing Regulations (DIR)"*

- Contributing to developing future implementing acts: customer switching [change of supplier] and demand response.

TF3: *"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 model to standard models and, when necessary, propose amendments, extensions, and profiles for these standard models.
- Interact and collaborate with standardization organizations.

References (links): [Call for members of the stakeholders' panels for the JWG TFs](#)

What to decide,

discuss or inform: Status in the TFs.

There was a TF3 meeting the day before where among others the following topics were discussed:

- Updates of HEMRM.
- Review of the change of supplier IR, where it was suggested to remove the upfront AP characteristics process and show a minimum of the AP characteristics. Further it was proposed to remove some of the notifications sent to "other parties" after the switch.
- Review of the Procedures for access to metering and consumption data IG.

13 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 H 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.

14 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), Jon-Egil, Mario, Teemu H, Teemu K 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.

14.1 Status for EA16 version of CIMContextor/CIMSyntaxGen

Ove had as action investigated the status for migration of CIMContextor and CIMSyntaxGen to EA version 16, i.e. contact Andre/Jean-Luc and Eduardo.

According to André June 4th, the latest version of CIMContextor and CIMSyntaxGen will work with EA16 32 bits. He has also prepared a 64-bit version (which replaces Access with sqlite) but it needs to be tested (means having some time).

Ove had also asked Eduardo:

“There have been some rumours that ENTSO-E has started on the development of some software that will replace CIMContextor and CIMSyntaxGen. Do you have any status for this?”

However, without any answer from Eduardo.

Action:

- Jon-Egil will follow up, i.e. ask Eduardo for the status of the development of the software that is intended to replace CIMContextor and CIMSyntaxGen .

14.2 Report from NTC meeting May 31st

Present: Jan (DK), Jan (SE), Mario and Ove.

Jan (SE) presented a first draft of a proposal for a new CIM ContactPoint class covering the needs from the Nordic datahubs and NBM/NBS master data.

Jan (SE) has started to investigate descriptions for the Swedish confirm and reject Request change of supplier, however not finalised yet.

Ove has added the association from AccountingPoint_MarketParticipant to ContactPoint.

The main topic of the meeting was a discussion on how to continue, i.e. if we should continue making mapping to CIM of more documents that are needed by the Nordik datahubs or if we should start on the first Nordic BRS for change of supplier.

A large part of the time was used to explain how the Danish and Norwegian datahubs define BRSs, RSMs (Denmark) / Process Components (PCs) (Norway) and messages. As an example, the Elhub “BRS 101 start of supply – change of supplier” contains 5 PCs, where the first is PC1, which contains three documents: Request, Confirm and Reject Change of Supplier.

Finally it was agreed to start on a first Nordic BRS for Change of Supplier at our next NTC meeting. Ove will make a first draft structure.

Continued and new actions:

- Ove will ask Miloš how Unicorn/NBM will send the three elements “ECP endpoint”, “EDX service” and “Allowed email domains: string” in one attribute (electronicAddress) and for some examples of the content of these elements.
- Jan (SE) will make a first draft proposal for a new communication (ContactPoint) class covering the needs from Elhub and NBM master data.
- Jan (SE) will find descriptions for the Swedish confirm and reject Request change of supplier.
- Ove will make a first draft structure of a Nordic BRS for Change of Supplier.

14.3 Report from NTC meeting June 10th

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

Mario informed that Elhub decided to go with Sparx EA16 + Lemontree + Github solution.

As prerequisite, we need to migrate current models from EA14, which reside in database to new EA16 in files. When it comes to that I need some advice how to migrate. I need to take only certain packages from source to destination. I use Export to XMI / Import from XMI to do so.

But I always end up with a bunch of inconsistencies (see example attached). Since there is a bunch of outdated/obsolete/garbage objects in current EA repo, I am unsure if this is something introduced by export/import, or it was there to begin with. Any of you ran EA migration from one version to another, or from models in external database (in our case it is PostgreSQL) to files to share some light here?

- Ove informed that he has exported EA models to xmi and thereafter importing it to a different file format and/or version of EA, but without experiencing any problems.
- Note that if you use copy/paste between EA models or packages within a model, the uuid of the elements copied will be recreated. If you use export/import to XMI, the uuid of the elements copied will be kept.

Teemu informed that a new regulation will be introduced in Finland from 2026, requiring that measured data shall be available for the final customers no later than six hours after the actual production/ consumption, and asked for ideas for documents to use as a basis. Among others it is discussed if json should be used. The FSKAR Metering Data document, the IEC62325-451-10 Ed.1 (My Energy Data) and the RGCE process Measurement Value Document were reviewed. The two first (FSKAR and My Energy Data) seems to be the best alternatives and maybe the FSKAR seems to be the best alternative.

During the discussion, Jan (SE) showed a presentation comparing the My Energy Data document with the “Metered Data Market Document” proposed by ENTSO-E CIM for retail market WG in the “Procedures for access to metering and consumption data IG”.

Jan (SE) had also as action found descriptions for the Swedish confirm and reject Request change of supplier documents.

A RegisterRetailerSwitchRequest (BRS-SE-215, however other identifications may also be found in the documentation) sent from the new Energy Supplier to the data hub contains the following information:

1. accountingPointId
2. deliveryStartTime
3. customerId
4. deliveryCustomerInfo (optional)
5. contractInfo

This request can result in a positive RegisterRetailerSwitchResponse that contains:

- deliveryId
 - String: Unique identifier for the delivery
 - **Conclusion 202040610:** Can probably be mapped to the "BusinessProcessReference_ MktActivityRecord/mRID".

If there is a rejection, there is submitted a response with the following (possible) attributes:

- Type
 - String, a URI reference that identifies the problem type. Example: <https://api.elmarknadshubben.se/delivery-management/v1/errors#MessageSyntaxError>
 - **Conclusion 202040610:** Missing in current reject proposal
- title (optional)
 - String, a short, human-readable summary of the problem type. Example: MessageSyntaxError
 - **Conclusion 202040610:** Missing in current reject proposal – can maybe be mapped to the "name" attribute in the MktActivityRecord class in the Market package.
- detail (optional)
 - String, a human-readable explanation specific to this occurrence of the problem. Example: The syntax of message is incorrect.
 - **Conclusion 202040610:** Can probably be mapped to the "Reason/text" attribute .
- status (optional) (?? Or required in this use case ??)
 - String, an HTTP status associated with the result of the operation.
 - Example: 400 (with the description: The request is malformed or fails to abide to one or more business rules.)
 - Example: 404 (with the description: One or more resources are not found.)
 - Example: 409 (with the description: The current state of one or more resources is in conflict with the request.)
 - **Conclusion 202040610:** Missing in current reject proposal – Can probably be mapped to the "status" attribute in the MktActivityRecord class in the Market package.
- instance (optional)
 - String, a URI reference that identifies the specific occurrence of the problem. Example: urn:uuid:6b232cfe-3a8a-11e9-b210-d663bd873d93
 - **Conclusion 202040610:** Missing in current reject proposal.
- code (optional)

- String, a code linking the specific error with corresponding documentation. Example: E_DLV_0001_01 (telling: "The specified customer identifier format does not match the specified customer identifier type")
- **Conclusion 202040610:** Can probably be mapped to the "Reason/code" attribute.

Rejections like this is very close to <https://datatracker.ietf.org/doc/html/rfc7807>, however I don't find the attribute "code" there, and there might be differences regarding what is required or not.

Regarding the status codes 400, 404, 409 (and possible other status codes for other kinds of rejections) see <https://datatracker.ietf.org/doc/html/rfc7231#section-6.5>

The process of changing supplier is described in <https://www.svk.se/siteassets/2.utveckling-av-kraftsystemet/systemansvar-o-elmarknad/elmarknadshubben/paus-block-bilder/customer-and-agreement---brs.pdf>, page 21–24.

Conclusion:

- We will not update the Nordic change of supplier documents with the Swedish requirements now.

Thereafter Jan (SE) showed the presentation "Adding ContactPoint and Communication to CIM" (his homework from previous meeting). However, it was not enough time to discuss what we will use in Nordic downstream market mapping. This will be a main topic at our next meeting June 17th.

Continued and new actions:

- Ove will ask Miloš how Unicorn/NBM will send the three elements "ECP endpoint", "EDX service" and "Allowed email domains: string" in one attribute (electronicAddress) and for some examples of the content of these elements.
- Ove will continue updating the Nordic BRS for Change of Supplier.

14.4 Report from NTC meeting June 17th

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

The first topic discussed was based on an email from Jan (SE):

I took the XML schema and created a sample file. Then I took a small EDIFACT file (PRODAT **Z03**) for Swedish conditions and mapped it to how it could look in the XML file.

I noticed that both mRID and type under MarketAgreement were mandatory. The first field did nothing, we currently have a requirement to enter "reference to agreement" in PRODAT Z03, this is so that the network owner knows that the customer has an agreement with the electricity supplier. But under "type" I don't specify anything...

Under customer_ObjectType (which we do not have in Sweden today) I entered "Household", something that we would see as an improvement in Sweden since we have difficulty seeing the difference between private person and "sole proprietorship" (sole proprietorship has a social security number as an organization number).

However, I didn't know how to map "Reason for transaction" in PRODAT (CCI++Z13'CAV+xxx), although in this message there is only one variant (code Z22 = Change of supplier).

Nor did I know how to map the "Measuring method" (CCI++Z05'CAV+xxx) where the most common code is: **Z03** = Defined by Metering point administrator (= the electricity supplier lets the grid owner decide, the electricity supplier has no agreement with the customer that requires quarterly measurement).

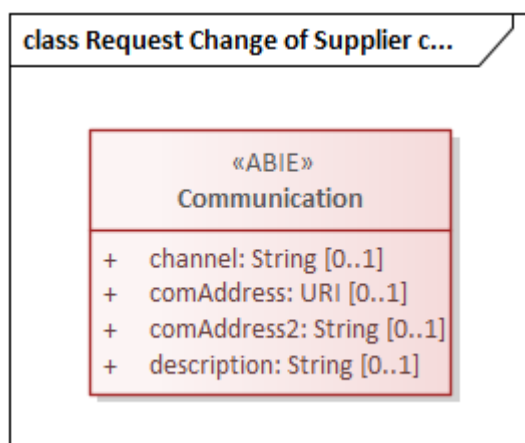
But otherwise it went well, I think 😊.

The next step is to make a more general mapping between all the fields in PRODAT **Z03** to what is, or does not exist, in the class diagram. But it takes longer because there are many fields in PRODAT **Z03** that were not included in my little example.

Conclusions:

- We make MarketAgreement “mRID” required and “type” optional.
- We add the “reason” attribute (optional) to the MktActivityRecord be used for “Reason for transaction”.
- We add the measurementMethod attribute to AccountingPoint to handle the Swedish “Measuring method” (e.g. **Z03** = Defined by Metering point administrator).

The second topic discussed was “how to map ContactPoint and Communication”. Among others the term URI (e.g. see https://en.wikipedia.org/wiki/Uniform_Resource_Identifier) was discussed. The conclusion was to replace the ContactPoint class with a new Communication class based on a proposal from Jan (SE), from a PowerPoint presentation shown at the previous NTC meeting:



Actions:

- Ove will make MarketAgreement “mRID” required and “type” optional.
- Ove will add the “reason” attribute (optional) to the MktActivityRecord be used for “Reason for transaction”.
- Ove will add the measurementMethod attribute to AccountingPoint to handle the Swedish “Measuring method” (e.g. **Z03** = Defined by Metering point administrator).
- Ove will add the new replace the ContactPoint class with the new Communication class

15 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.

15.1 *Prepare Nordic positions before coming CIM WG meetings*

Nothing to prepare.

16 Information (if any)

Jon-Egil informed that 15-minutes for intraday (and later day-ahead) and NBM may be delayed but nothing decided yet.

17 Next meetings

NMEG:

- Tuesday September 3rd and Wednesday September 4th at Statnett's offices Oslo
 - Svein (Statnett) will join to discuss CIM modelling of datahub databases, such as making a CIM version of the Elhub Information Model (EIM).
- Monday October 7th, 10:00 – 12:30, GoToMeeting
- Tuesday October 22nd and Wednesday October 23rd at Svenska kraftnät's offices in Sundbyberg

NTC:

- Friday June 28th, 10:00 – 12:00
- Thursday August 22nd, 10:00 – 12:00

18 AOB

No items.

Appendix A Overview of Nordic memberships in international standardisation bodies

Name	Member of
Anne Stine	NMEG
Christian	NMEG
Edel (SE)	DIA, TF3
Fedder	NMEG, CIM WG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO
Jan (DK)	DIA, NMEG, IEC/WG16, TF2, TF3, DSS/557
Jan (SE)	DIA, NMEG, IEC/WG16+14, ESMP, TK57, TF2, TF3
Jon-Egil	DIA, NMEG, CIM WG, IEC/WG16, ESMP, CCC, CIO/LIO, NK57, TPC, TF3
Mario (NO)	DIA, NMEG, NK57, TF2
Oscar	CIO/LIO, CIM WG, TK57
Ove	NMEG, IEC/WG16, NK57, (TF3)
Svein (NO)	IEC/WG14+13, CGMES
Teemu H (FI)	NMEG, CIM WG, CIO/LIO
Teemu K (FI)	DIA, NMEG, TF2

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
DIA	ENTSO-E WG Data Interoperability & Access
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)
NK57	Norsk Elektroteknisk Komite (Norsk Komité 57)
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)
TK57	Teknisk Kommitté 57
TPC	Transparency Platform Coordinators (subgroup under MIT)