


Minutes: NMEG meeting Date: Wednesday June 23 rd Time: 11:00 – 12:00 and 13:00 – 15:00 Place: GoToMeeting	 NMEG Nordic Market Expert Group
June 24 th , 2021	

Present:	Anders, Statnett (during item 6.2) Bent Atle, Statnett (NBM) Christian, Energinet Jan (SE), Svenska kraftnät Jon-Egil, Statnett (Convenor) Miika, Fingrid Mika, eSett, FI Ove, Edisys (Secretary) Tage, Energinet Teemu, Fingrid
To (NMEG):	Anne Stine, Elhub Christian, Energinet Jan (DK), Energinet Jan (SE), Svenska kraftnät Jon-Egil, Statnett (Convenor) Miika, Fingrid Ove, Edisys (Secretary) Tage, Energinet Teemu, Fingrid
CC:	Audun, Elhub Bent Atle, Statnett (NBM) Fedder, Energinet Hans Erik, Elhub Minna, Fingrid
To (Invited guests):	Mika, eSett, FI Tommy, eSett, FI Tuomas L, eSett, FI Tuomas P, eSett, FI
Appendix A:	Overview of Nordic memberships in international standardisation bodies
Appendix B:	Overview of the usage of xml-schemas in the Nordic countries
Attachment:	None

1 Approval of agenda

The agenda was approved with the following additions:

- Error corrections in BRS for Nordic Trading System, see item 9.5
- Question from Svenska kraftnät via Alvaro (ENTSO-E), see item 18.1 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.

Not much has happened since previous meeting. NEX has started to use www.ediel.org, such as adding minutes and spent some time on follow up on EXP/EDX issues.

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

Nothing new. To be continued.

4.1 CNTC IG

Fedder asks if NMEG can and will help the NORCAP project to create an implementation guide for the CNTC (Coordinated Net Transfer Capacity) process, including an information model that is consistent with the ESMP?

Nothing new. To be continued.

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.

6.1 Status for NBM discussion related to MR for a new attribute for the Run ID.

Postponed.

6.2 NBM code requests for interaction between BSPs and TSOs for mFRR energy market

NBM is in the process of releasing an Implementation Guide for interaction between BSP's and TSO's for mFRR energy market and in this work, they see a need to have some codes defined to fully support mFRR regulations.

Document type codes:

Z37	(Reserved) Faster than standard FAT	Bids that can support a “Full Activation Time” (FAT) that is faster than 12,5 minutes. Fast activation can be done for bids with activation time (CIM:activation_ConstraintDuration.duration) shorter than the minimum requirement for the standard product. When circumstances call for it, the TSO can order activation of such bids on a shorter notice.
Z38	(Reserved) Faster than standard deactivation time	Fast deactivation can be done for bids with activation time (CIM:activation_ConstraintDuration.duration) shorter than the minimum requirement for the standard product. When circumstances call for it, the TSO can order activation of such bids on a shorter notice.
Z39	(Reserved) Slower than standard FAT	Bids that can support a Full Activation Time (FAT) that is slower than 12,5 minutes.

Z40	(Reserved) Period shift activation	Bids are activated for a shorter period than the whole Market Time Unit around period shift in order to resolve structural imbalances.
-----	------------------------------------	--

Reason codes:

Z58	(Reserved) Scheduled activation	A time series concerning scheduled activation
Z59	(Reserved) Direct activation	A time series concerning direct activation
Z60	(Reserved) Faster than standard FAT	A time series concerning faster activation. Bids that can support a Full Activation Time (FAT) that is faster than 12,5 minutes
Z61	(Reserved) Faster than standard deactivation time	A time series concerning early deactivation
Z62	(Reserved) Slower than standard FAT	A time series concerning slower activation. Bids that can support a Full Activation Time (FAT) that is slower than 12,5 minutes.
Z63	(Reserved) Period shift activation	A time series concerning period shift activation. Bids are activated for a shorter period than the whole Market Time Unit around period shift to resolve structural imbalances.
Z64	(Reserved) Period shift, beginning of period	Bids are activated for a shorter period than the whole Market Time Unit around period shift to resolve structural imbalances, for the beginning of the period.
Z65	(Reserved) Period shift, end of period	Bids are activated for a shorter period than the whole Market Time Unit around period shift to resolve structural imbalances, for the end of the period.

From discussion:

- It was noted that the new Document Codes normally should be put somewhere else in the structure, e.g. as Process Types or Business Types.

Conclusion:

- The code names were slightly corrected and will be added to the Nordic Code List and published at www.ediel.org.
- A discussion related to the Document (Message) Types should be put on the NMEG August agenda. I.e.
 - Should the Document Types “Faster than standard FAT”, “Faster than standard deactivation time” and “Slower than standard FAT” be Process Types or Business Types?
 - The intention is to first discuss the issue within NMEG, thereafter verified the result with MARI and other Nordic stakeholders and finally discussed it in CIM EG.

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: Status for MR to ETC and if needed making new MRs.

The ebIX® MRs are still pending in EBG.

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.

Status for addition of Asset Types from NMEG 2020/188 (still pending).

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.

References (links): None.

What to decide,

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

9.1 BRS for Schedules: CIM version of Outage document

Status for a request to the OPC group to agree on how to implement the CIM version of the Outage Document.

No feedback yet. Postponed.

9.2 Nordic Operate BRS

Ove had as action made a first draft for a next version of the Operate BRS, among others:

- Including reporting of FCR and FRR.
- Using Enterprise Architect instead of MagicDraw artefact.
- Update to latest Harmonised Role Model.

Action:

- Ove will clean up the BRS for Operate, send it for one week of commenting (approval) to NMEG and thereafter publish it at www.ediel.org.

Item closed.

9.3 ENTSO-E: Best practice for version numbering

- A Status for "ENTSO-E Best practice for version numbering" as reviewed and agreed at NMEG meeting March 12th.

- B Review of text for the revisionNumber in the NMEG BRSs, to see if we are in line with the proposed “ENTSO-E Best practice for version numbering”.

Awaiting approval of document in CIM EG. To be continued.

9.4 New Business types to NBS BRS for TSO-MO

From Mika:

Referring to a previous mail conversation about simulating the losses in NBS PX Market Flow messages.

We have been able to move forward with the specification/implementation and next step would be to update the BRS. More specifically: NBS BRS for TSO-MO and ENTSO-E ESS Schedule document, Day-ahead/Intraday flow document.

Business Type	[1]	A66	A66	Energy flow
---------------	-----	-----	-----	-------------

The eSett’s suggestion is to add two new Business types:

- o **B67**, DC flow with losses - DC flow with losses refers to the values at the importing end of the DC line
- o **B68**, DC flow without losses - DC flow without losses refers to the values at the exporting end of the DC line.

Action:

- Ove will add the new Business Codes to NBS BRS for TSO-MO, send it for one week of commenting (approval) to NMEG and thereafter publish it at www.ediel.org.

Item closed.

9.5 Error corrections in BRS for Nordic Trading System

From Jan (SE):

1. In figure 8, at the bottom, “Aggregator” is missing from the “Market Information Aggregator”.
2. In figure 9:
 - a. ”conmfirmred” should be corrected to ”confirmed”.
 - b. Missing an arrow from “Report traded volume” to “Publication_MarketDocument”.

Action:

- Ove will correct the BRS and publish it directly at www.ediel.org.

Item closed.

10 Status for Swedish Flexibility project

Background: Sweden has two ongoing “Flexibility projects” that now want to use CIM based messages for the exchanges to/from the flexibility platforms. Among others one called Stockholm flex where Vattenfall is candidate for making CIM documents for the project(s).

To keep document exchanges as harmonised as possible in the Nordic countries, NMEG has offered them NMEGs help in making the needed CIM based xml schemas.

References (links): None.

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

Jan (SE) informed:

- Kick-off meeting today.
- Actual work will start in August.
- Jan (SE) is e.g. expected to assist with mapping to the Harmonised Role Model. But of course also with the mapping from the BRSs to CIM.

11 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 17th. 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®.

12 XML schemas

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

When we start a project together with NBM (Nordic Balancing Model), everyone are asked to find what versions of xml-schemas are used to day in different projects and come up with proposals for new schemas and/or sets of schemas that should be published at www.ediel.org.

References (links):

What to decide, discuss or inform: Verify the list of proposals for new schemas and/or sets of schemas, from the NMEG participants, which should be published at www.ediel.org.

Ongoing task:

- All are asked to find what versions of xml-schemas are used to day in different projects and come up with proposals for new schemas and/or sets of schemas that should be added to Appendix B and be published at www.ediel.org.
- Ove will update the table based on NBM documentation received from Bent Atle (NBM/Fifty), when the NMEG BRSs are updated with NBM documents.

13 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.

13.1 Report from NMEG CIM-XML Subgroup; GoToMeeting May 21st

- Participants Christian, Jan (DK), Jan (SE) and Ove.
- Ove had updated the mapping document according to agreed changes based on the comments from Jan (DK) up to where we ended last meeting.
- Most of the meeting was used to continue the review of comments from Jan (DK).

Decision:

- It was agreed to add missing (TBD) attributes, i.e. attributes used in ebIX® but not in Denmark, as a summer activity (July/August).
- Ove will give Jan (DK) and other interested an introduction to generation of XSDs from CIM Thursday May 27 from 14:30 – 16:00.

Continued and new actions:

- Ove will continue update of the mapping document according to agreed changes based on the comments from Jan (DK).
- Jan (SE) will try to find time to make a proposal for how physical asset (solar cells, EVs...) can be linked and which of these (and virtual objects) that are Installations, Resources, Metering Points or Accounting Points.
- RSM 12, 14 and 19: Jan (DK) and Christian will discuss if we need Price and Quantity (EnergySum) classes associated to Point in RSM 14 (currently only used in RSM 19). The alternative is making RSM 14 equal to this RSM 12 and keep RSM 19 as is.
- Ove will make a new document: RSM018B "Request missing measure data list".
- Jan (DK) will verify if Scheduled Meter Reading Date is repeated in RSM 021.

13.2 Report from NMEG CIM-XML Subgroup; GoToMeeting May 31st

- Participants Christian, Jan (DK), Jan (SE) and Ove.

- Ove had updated the mapping document according to agreed changes based on the comments from Jan (DK) up to where we ended last meeting.
- Christian had commented on the new document: RSM018B “Request missing measure data list”:
 - o We will rename RSM018B “Request missing measure data list” to “Request for reminders”
 - o Metering point type and perhaps resolution will be added:
 - Resolution as Series / Period / Resolution
 - MP Type was added during the meeting as Series / MarketEvaluationPoint / type
 - o And instead of a date could choose a period (start mandatory /end optional)
 - Ove will as homework add (start mandatory /end optional).

Start reminder process manually (metered data)

The screenshot shows a web form with the following fields and values:

Field	Value
Communication channel	B2B
Grid area	Select
Metering point type	Select
Settlement method	Select
Reading occurrence	Select
Period start date	[Calendar icon]
Period end date	[Calendar icon]
Use exclude list	<input type="checkbox"/>
Use include list	<input type="checkbox"/>

Continued and new actions:

- Ove will continue update of the mapping document according to agreed changes based on the comments from Jan (DK).
- Jan (SE) will try to find time to make a proposal for how physical asset (solar cells, EVs...) can be linked and which of these (and virtual objects) that are Installations, Resources, Metering Points or Accounting Points.
- RSM 12, 14 and 19: Jan (DK) and Christian will discuss if we need Price and Quantity (EnergySum) classes associated to Point in RSM 14 (currently only used in RSM 19). The alternative is making RSM 14 equal to this RSM 12 and keep RSM 19 as is.
- Jan (DK) will verify if Scheduled Meter Reading Date is repeated in RSM 021.
- Ove will rename RSM018B “Request missing measure data list” to “Request for reminders”
 - o Ove will as homework add Series / Period / Resolution (MP Type was added during the meeting).
 - o Ove will as homework add Start Date [1] and End Date [0..1].
- Ove will update RSM 28 with two missing attributes and delete RSM 29
- Ove will translate Danish text to English.
- Jan (DK) will ask Fedder if he knows anything about CIMSyntaxGen and generation of WG16 JSON schemas.

13.3 Report from NMEG CIM-XML Subgroup; GoToMeeting June 3rd

- Participants Christian, Jan (DK), Jan (SE) and Ove.
- The meeting was used for two updates in RSM 021 Request change of Accounting Point characteristics and RSM 022 Accounting Point characteristics:
 - Renaming “MP Address Wash Instruction” to “Official address indicator”, including:
 - Changing the data type from a Danish code list to a Boolean.
 - Deleting the Danish code list from the CIM model.
 - Addition of the new attribute “Accounting Point Responsible ID”
- The meeting on Monday June 7th is expected to be used for an introduction to make XML schemas to Jan (DK) and other interested.

13.4 Report from NMEG CIM-XML Subgroup; GoToMeeting June 7th

- Participants Jan (DK), Jan (SE) and Ove.
- Jan (SE) informed:
 - Regarding that “extensions to ACCs” should be avoided, I received this from a colleague at Svenska kraftnät:

Extending vs Profiling

Extensions have to take place in the canonical model first
before they can be restricted at a profile level
i.e. it is not allowed to add extensions directly at the profile level.

Extending canonical CIM and extensions
is to add :

- > Attributes to existing object class or enumeration
- > New object class or enumeration
- > Generalization or association link

to extend functional coverage and/or adapt
the information model to a context, an use

Profiling canonical CIM and all extensions
is to restrict :

- > Object classes and enumerations
- > Generalizations and associations link
and possibly restrict multiplicities
- > Attributes of object class and enumeration

to a consistent sub-set of canonical CIM and
all extensions, relevant to a specific purpose



And the “Canonical CIM” is the TC57CIM package.

- Most of the meeting was used for an introduction to generation of xml schemas using CIMSyntaxGen and update of the Nordic CIM profile using CIMConteXtor.

13.5 Report from NMEG CIM-XML Subgroup; GoToMeeting June 14th

- Participants Christian, Jan (SE) and Ove.
- The review of the mapping document and update of the CIM model continued:
 - Jan (DK) had noted that the “Confirm Request Price List” was missing from “CIM based RSM-035: Request Price List”. However, the “Confirm Request Price List” has been replaced by “RSM-034: Notify price list”, which is used for both confirmations and notifications.

- o Most of the meeting was used for defining the sequenced of attribute for Notify Aggregated Time Series.

Conclusion:

- It was agreed that the Datahub shall use the two roles Metering Point Administrator (when sending/receiving master data) and Metered Data Administrator (when sending/receiving measure data).

Actions:

- Ove will try to find out how (if) we can generate JSON in parallel with XML
- Ove will update the mapping document/CIM model:
 - o RSM 014 will be used as basis for the sequence of attributes in measure documents
 - o Measure documents:
 - Remove Series / BusinessType from all documents having it.
 - Remove Series Curve Type from all documents having it.
 - Remove Monthly Aggregations (Series / AggregationSeries_Period / resolution) from RSM 014.
- Christian will investigate if we shall keep Monthly Aggregations (Series / AggregationSeries_Period / resolution) in RSM 016.

At the next meeting we will do the sequenced of attribute for Accounting Point Characteristics.

13.6 Report from NMEG CIM-XML Subgroup; GoToMeeting June 21st

- Participants Christian, Jan (SE) and Ove.
- Christian informed that the CIM model should be ready before August 1st. Thereafter it should only be error corrections.
- Ove had as actions:
 - o Sent a mail to Andre and Jean-Luc, who are the developers of the CIMSyntaxGen and CIMContextor, asking for information about JSON, however without any reply.
 - o Updated the sequence of attributes in all measure documents to be in line with Notify Aggregated Time Series, which was agreed at the previous meeting.
- The review of the mapping document and update of the CIM model continued:
 - o Most of the meeting was used for refining the sequenced of attributes and removal of not used attributes from measure documents.
 - o The last part of the meeting was used to define the sequence for structure documents (Accounting Point Characteristics).
 - o The following sequence was agreed for the MktActivityRecord class in Structure documents:

t	element name
	mRID
	BusinessProcessReference_MktActivityRecord
	OriginalTransactionIDReference_MktActivityRe
	ValidityStart_DateAndOrTime
	Snapshot_DateAndOrTime
	MarketEvaluationPoint

Actions:

- Ove will contact Alvaro and Fabio at ENTSO-E, and Fedder, asking if they know anything about generation of JSON from CIMContextor and send a reminder to Andre and Jean-luc.
- Ove will:
 - Remove revisionNumber from all documents having it.
 - Remove Process / classificationType from all documents having it.
 - Remove Period / timeInterval from all documents having it (all measure documents)
 - Remove from RSM-014:
 - Reason
 - chargeType and ChargeTypeOwner_MarketParticipant
 - Price, Currency and Price_MeasureUnitAnd note in the mapping table that they are not used in Datahub 3.0.
 - Remove from RSM-022:
 - First and second customer
 - In all Measure documents, move:
 - MarketEvaluationPoint (settlementMethod and MP type) to after OriginalTransactionIDReference in all documents
 - AssetMktPSRType to after MarketEvaluationPoint in all documents
 - Period as the last attribute
 - Product before measureUnits
- Ove will try to make xml schemas for RSM-012, RSM-014 and RSM-019 before Tuesday June 22nd.
- To be able to agree all documents before August 1st, two more meetings were agreed:
 - Friday June 25th, 09:00 – 10:00 (Christian and Ove)
 - Thursday July 1st 09:00 – 11:00 (NMEG CIM-XML Subgroup)

14 Status for update of 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.

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

References (links): www.ediel.org.

What to decide, discuss or inform: Status.

The web site is OK. Item closed.

15 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.

15.1 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.

CIM EG will not change this (“never change a running system”). However, CIM EG agrees to have the same codes in the two «Enumeration».

Item closed.

16 Information (if any)**17 Next meetings and decide if next meeting will be a face-to-face meeting or GoToMeeting**

NMEG Corona GoToMeetings:

- Thursday August 26th, 10:00 – 12:00 and 13:00 – 15:00, GoToMeeting

NMEG scheduled face-to-face meetings¹:

- Tuesday October 12th, 09:00 – 16:00, Edisys offices in Oslo

NMEG CIM-XML subgroup GoToMeetings:

- Every Monday (except for holidays) from 10:00 to 11:30 until Monday June 28th, 2021.

18 AOB**18.1 Question from Svenska kraftnät via Alvaro (ENTSO-E)**

From Alvaro:

Hi Jon-Egil,

I need your wise advice on this. I do not understand which kind of area the guy is referring in the email below. Should this be a kind of virtual bidding zone?

From Nicolas Ivering, Solution architect, Svenska kraftnät:

We need to issue new codes for two areas but I’m not sure what kind of Area type (Balance Group, Bidding zone etc) to choose. The areas concern a bottleneck on the west coast of Sweden which consists of multiple lines going from north to south. We need to describe capacity in both south going and north going direction for this bottle neck in CIM Capacity_MarketDocument. What kind of Area/Y type should we issue the code as?

Conclusion:

¹ 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.

- This seem to be a “Cut area”, which is something smaller than a Bidding Zone (Scheduling Area) and bigger than a Metering Grid Area.
- However, the best solution is probably to define it as a Bidding Zone.
- To be further investigated – a status will be put on the next agenda.

Action:

- Jan (SE) and Jon-Egil will follow up.

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 ²	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

² 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