| | | |
|---|---|---|
| **Agenda:** NMEG meeting<br>**Date:** Tuesday December 13<sup>th</sup>, 2022<br>**Time:** 10:00 – 12:00<br>**Place:** GoToMeeting | | **NMEG**<br>Nordic Market Expert Group |
| December 13<sup>th</sup>, 2022 | | |

**Present:**
Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (Convenor)
Ove, Edisys (Secretary)
Pamina, Energinet
Søren, Nordic RCC
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)
Pamina, Energinet
Teemu, Fingrid

**CC:**
Audun, Elhub
Bent Atle, Statnett (NBM)
Fedder, Energinet
Fredrik, Fingrid
Hans Erik, Elhub
Tage, Energinet

**To (Invited guests):** Antti, eSett, FI
Søren, Nordic RCC
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.


## 2  Approval of previous meeting minutes

The minutes from previous meeting were approved after removal of the surname of Pamina.

## 3    Status for update (approval) of NMEG ToR

The new ToR was sent on circulation for comments to NMEG after our previous NMEG meeting and was approved after update of one sentence under Responsibilities:

*Documenting information flows in existing business processes in a standardised way and use internationally agreed procedures where possible.*

At the next meeting we will decide if we can publish the ToR.


## 4    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.

Jon-Egil informed that the NIT sub.group convenors will have a short meeting in front of and after coming NIT meetings, to share information between the sub-groups.


## 5    Nordic RCC

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

**References (links):**   None.

**What to decide,
discuss or inform:**     Update of ESMP and CIM based on Nordic RCC needs.

Nothing reported.


## 6    Support to the NBM project – prioritised item

**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.


### 6.1    Update of NMEG BRSs based on NBM input

**Continued action:**

- Ove will update the BRS for Operate and the BRS for Determine transfer capacity for new review at next NMEG meeting.


## 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.

*Conclusion from EBG October 10th:*
- Jan and Ove will bring the topic back to NMEG, i.e. try to find a better understanding and name for the attribute and a better justification for why and were to add the attribute (the attribute is used both in aggregated time series and as master data in AP characteristics).

*From NMEG discussion November 23rd:*

- What NMEG is looking for is not really a PSRType, which is Power System Resource Type, I.e., something physical.
- However, the ENTSO-E PSRType, which uses the ENTSO-E Asset Type Code, contains more than "Resource Types", such as fuel types.

*Conclusion November from NMEG 23rd:*

- Jan and Ove will inform EBG that the PSRType is the pragmatically correct choice. I.e. we propose adding a "Business Type Detail" or "Aggregation criteria" attribute in the ebIX® BRS model. This attribute can be mapped to PSRType in CIM that is of type ASSET Type.


At the EBG meeting December 6th and 7th it was agreed to go for the term "**Consumption detail**". The following changes were agreed for the BRS for Measure for imbalance settlement:

- Addition of Consumption detail to the Series characteristics class in the Validated measured data for imbalance settlement document.

Changes to BRS for AP characteristics:

- Rename of the class "Reconciliation information" to "Energy volume information" in the Accounting Point characteristics document.
- Addition of the attribute "Consumption detail" to the "Energy volume information" class in the Accounting Point characteristics document.

The attribute is to be implemented in Ediel documents sometime in the future.


Item closed.


## 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 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.

Noting new – will probably be discussed at a CIM WG meeting beginning of January 2023, hence the item was postponed.


## 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 Nordic Trading System: Mismatch between the sequence diagram and the sender/receiver roles in the Business Data View

Continue review of table showing mismatch between sender/receiver in the Business Data View and the sequence diagram - see Appendix C.

*Action:*

- Søren will check if the Area Specification Document is used by RCC (NorCap)


### 9.2 Exchange of settlement information between the Nordic TSOs – prioritised item

**Background:**  Svenska kraftnät is using an older ebIX® based xml document towards two TSOs and plan using a newer ebIX® and CIM based document towards a third TSO. The codes used for the two older xml exchanges are ebIX® codes, while the third TSO wants to use ENTSO-E codes.

An alternative is using the EAR (Energy Account Report) document, which among others is used between Energinet and TenneT and expect it to be used for the Viking-link.

**References (links):**  None.

**What to decide,**
**discuss or inform:**  Assuming we (the Nordic countries) will use EAR (in a CIM version) for most of our exchanges of settlement information between the TSOs, can we agree upon some common codes and usages of that message, instead of having bilateral agreements? And since eSett also is using that message (a namespaced version of the ENTSO-E ESP Energy Account Report version 1.2) it would be relevant to get input from eSett regarding their possible updates and change to CIM.

Bilateral discussions between Denmark and Sweden have just started, perhaps that should be "part of" a more general Nordic discussion, and documentation, of how to exchange settlement information?

At the NMEG meeting in November, it was proposed to add an in_Area and an out_Area to the EAR document. Alternatively it may be an option using the ERRP Allocation Result Document.

Since we will do updates due to changes from 60 minutes to 15 minutes resolution, why not also do something about the exchange of e.g. MSCONS messages to something more modern".

Se documents from Jan (SE):
- PowerPoint presentation "Settlement information between TSOs.pptx", which was distributed to NMEG February 28th, and redistributed October 6th.
- Excel sheet showing settlement related information exchanges with the following columns: "Description", "Per (MP, SO…)", Unit, Partis for Svk exchange" and "Comments Svk", distributed June 2nd, and redistributed October 6th.


Teemu informed that he has got a list over Fingrid's cross border exchanges - will distribute it soon. To be briefly reviewed at our GoToMeeting in January and dived into in the physical meeting in February.

***Continued action:***

- Jan (SE), Jon-Egil, Teemu and someone from Denmark are asked to fill in the Excel sheet from Jan (SE) with today's exchanges and the content (information) behind it.
- All are asked to send the result to Ove latest by one week before next meeting, who will merge the results.
- Ove will send a reminder beginning of January.

## 9.3 Usage of Reason codes in NBS BRS for TSO-MO– prioritised item

Status for addition of new reason codes to NBS BRS for TSO-MO:

| | |
|---|---|
| **Z58** | Scheduled activation |
| **Z59** | Direct activation |
| **Z60** | Faster activation |
| **Z61** | Deactivation |

And proposed additions from Norway:

| | |
|---|---|
| **Z63** | Period shift activation |
| **???** | mDFR Disturbance reserve |

Jon-Egil informed that the mDFR code is needed by Statnett to go live with NBM in the not too far future.

***Continued action:***

- Ove will send the updated NBS BRS for TSO-MO to eSett and ask for their comments. NMEG will await a response before doing anything more.

## 9.4 Rename of Market Balance Area to Bidding Zone or Scheduling Area (to remember item)

***Continued action:***
- Ove will go through the BRSs and other documents and change Market Balance Area to Bidding Zone or Scheduling Area. If uncertain, Ove will make a note for discussion at a later NMEG meeting. This is not a time critical action.

## 9.5 Update of NBS BRS with the option of sending negative losses

Status for update of NBS BRS, "5.2 NEG (ebIX® based) Aggregated Data per MGA (E31, E44) – consumption":

a) Shall we remove the note saying that quantity can be negative for Business Type **A07**:

> **Note:**
> - Business type "**A07** Net production/ consumption" ***uses signed values, i.e. will be negative when pumping.***
> - Also Business type "**A15** Losses" uses signed values, i.e. can be negative.

> ***Continued action for Jon-Egil:***
> o Jon-Egil will verify if Norway is sending negative **A07**

b) Can we Replace Process Type "**Z05** Bilateral Trade" with "**A59** Internal trade reporting"

> ***Continued action for* eSett (Tuomas)*:***

o To be investigated when we can Replace Process Type "**Z05** Bilateral Trade" with "**A59** Internal trade reporting" in NBS BRS, "5.2 NEG (ebIX® based) Aggregated Data per MGA (E31, E44) – consumption".

### 9.6 Continue review of update of NBS BRS for Master Data

The review of comments in the NBS BRS for Master Data continued.

***Action:***
- Ove will update the NBS BRS for Master Data with the conclusions from the review.
- Tuomas is asked if eSett uses the codes "**Z05** Trader" in the BRS for Master Data or if we can replace it with "**A47** Energy Trader".

## 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).

Noting new reported.

## 11 Common European Area project

**Background:** ebIX® has proposed a project plan for a common European Area project. ebIX®, ENTSO-E (CIM WG) and ENTSOG has confirmed participation and the new EU DSO Entity is trying to fine member(s).

**References (links):**

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

A kick off meeting is planned in January. Jon-Egil and Ove will be Nordic participants and Jan (SE) will be an observer.

***Action:***
- Ove will inform Gerrit (project convenor) that Pamina would like to be an observer in the project.

## 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 Christian, Jan (DK), Jan (SE), Teemu and Ove.

**References (links):**

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

### 13.1   Change of datatypes from basic CIM to profiles

The following figure is taken from the ESDMP model made for the Danish DataHub:
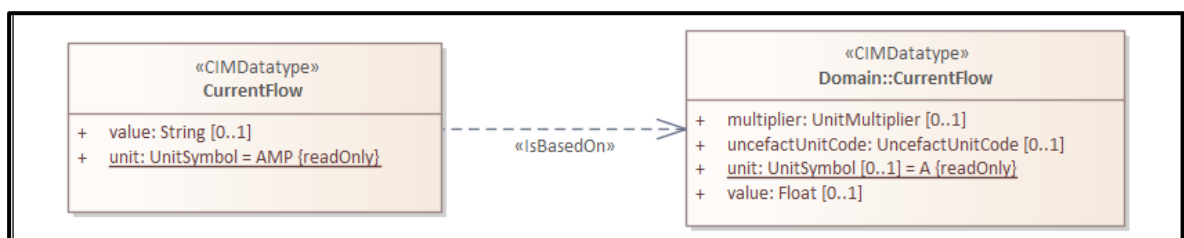
Jan (SE) noted during the WG16 meeting in Minnesota that it is not allowed to change the data type from "Float" to "String". Whether you can change "Float" to "Decimal" is unclear and should be checked. One may limit the data types, but not expand them. E.g., "Float" (or "Decimal") could become an "Integer". Then it should probably be a qualifier for your own data type.

Ove informed that the class diagram is taken from the ESDMP model we made in NMEG CIM xml Subgroup, and it appears that it is used in Denmark, e.g. for ratedCurrent.

Shall we do anything about it?



The issue is put on the agenda for the NMEG CIM xml subgroup beginning of January, hence item closed from NMEG point of view.

## 14   Addition of an "archive folder" at Ediel.org

***Continued action:***

- Teemu will try making an "archive folder" where older documents are stored, i.e. every time a new document version is uploaded to the document folder, the old version is move to the archive folder.

## 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*

Jon-Egil informed that the CIM WG Best practice document still is under discussion and probably will be handled in CIM WG in March.

## 16    Information (if any)

Jan (SE) informed that WG13, WG14 and WG16 are discussing if the default data type for mRID should be a UUID. It was stressed that this will be an issue for existing implementations where we for instance use VAT number for company IDs and social security number for persons.


Søren asked if there is any formal governance for how to assign EIC codes for cables? The codes are published by ENTSO-E and according to Jon-Egil, it is the TSOs (LIOs) that ask for new codes.



## 17    Next meetings

- Tuesday January 24th 10:30 – 12:00 + 13:00- 15:00, GoToMeeting
- Wednesday February 22nd and Thursday February 23rd, Sundbyberg
- Tuesday April 11th 10:00 – 12:00 + 13:00- 15:00, GoToMeeting
- Wednesday June 14th and Thursday June 15th, Helsinki


## 18    AOB

# 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 WG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO |
| Jan (SE) | NMEG, HG, ebIX®, IEC/WG16+14, ESMP, TFD |
| Jon-Egil | NMEG, CIM WG, IEC/WG16, ESMP, CCC, CIO/LIO, TPC, TFD |
| Martin (SE) | CCC |
| Miika | CIM WG, NEX |
| Moustafa (SE) | CGMES |
| Oscar | CIO/LIO, ebIX®, CIM WG |
| Ove | NMEG, HG, ebIX®, IEC/WG16 |
| Svein (NO) | IEC/WG14+13, CGMES |
| Teemu | NMEG, CIM WG, EBG, ETC, CIO/LIO |

**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 |
| EBG | ebIX® Business Group |
| EEAT | ENTSO-E Enterprise Architecture Team (subgroup under Dc) |
| ESMP | European Style Market Profile (subgroup under CIM WG) |
| 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 |
| TFD | ENTSO-E Task Force Data Interoperability and Access, |
| 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 <br> b)    BRS for Trade | 1.0 | | | | | 1.0 |
| 3. | NEG Area Specification Document | a)    NBS BRS for Master Data <br> b)    BRS for Trade | 1.0[1] | 2.0 (CIM) | | | | |
| 4. | NEG Bilateral Trade Structure Document | NBS BRS for Master Data | 1.0 | | | | | |
| 5. | NEG Party Master Data Document | NBS BRS for Master Data | 1.0 | | | | | |
| 6. | NEG Resource Object Master Data Document | NBS BRS for Master Data | 1.1 | | | | | |
| 7. | ENTSO-E Acknowledgement Document | NEG Common XML rules and … | 6.0 | | | | | 7.0 (not complete) |
| 8. | ENTSO-E ERRP Planned Resource Schedule Document | NBS BRS for TSO/MO | 5.0 | | | | | |
| 9. | NEG ERRP Planned Resource Schedule Document | BRS for Schedules | | | | | | |
| 10. | ENTSO-E ERRP Resource Schedule Confirmation Report | BRS for Schedules | No NEG version | | | | | |
| 11. | ENTSO-E ESS Anomaly Report | BRS for Schedules | No NEG version | | | | | |
| 12. | ENTSO-E Outage document | BRS for Schedules | No NEG version | | | | | |
| 13. | NEG ESP Energy Account Report Document | NBS BRS | 1.0 | | | | | |
| 14. | ENTSO-E ESS Confirmation Report | NBS BRS | 4.1 | | | | | 5.0 |
| 15. | ENTSO-E ESS Schedule Document | a)    NBS BRS <br> 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) |

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

| 26. | Capacity Market Document | ???? | | | | | | **7.1, 8.0** |
|---|---|---|---|---|---|---|---|---|

## Appendix C    BRS for Nordic Trading System: Mismatch between the sequence diagram and the sender/receiver roles in the Business Data View

| Documentation | Arrow | Between | Sender/receiver in the Business Data View | Update of BRS |
|---|---|---|---|---|
| Currency Exchange Rate Document v2.0 | 7.6 Currency Exchange Rate | Data Provider -> Market Operator | *Sender:*<br>**A11**  Market operator<br>**A05**  Imbalance Settlement Responsible<br><br>*Receiver:*<br>**A05**  Imbalance Settlement Responsible<br>**A08**  Balance responsible party<br>**A46**  Balancing Service Provider<br>**A47**  Energy Trader (Used for non-balance responsible traders)<br>**A48**  LFC Operator (replaces A04 System Operator) | Remove **A11**<br>Add **A39** Data Provider as sender |
| | 7.7 Currency Exchange Rate | Data Provider -> LFC Operator | | |
| IEC/CIM Area Configuration Document | 1.0 Area Specification | LFC Operator -> BSP | *Sender:*<br>**A11**  Market operator<br>**A34**  Reserve Allocator<br>**A48**  LFC Operator (replaces A04 System Operator)<br><br>*Receiver:*<br>**A08**  Balance responsible party<br>**A11**  Market operator<br>**A46**  Balancing Service Provider<br>**A47**  Energy Trader | *Action:*<br>• Jon-Egil will check if the Area Specification Document is used by RCC (NorCap) |
| | 2.0 Area specification | Reserve Allocator -> BSP | | |
| IEC/CIM Ediel Capacity Auction Specification Document | 1.1 Auction Specification | LFC Operator -> BSP | *Sender:*<br>**A11**  Market operator<br>**A34**  Reserve Allocator<br><br>*Receiver:*<br>**A08**  Balance responsible party<br>**A46**  Balancing Service Provider | |
| | 3.0 Auction specification | LFC Operator -> BSP | | |
| | 2.1 Auction specification | Reserve Allocator -> BSP | | |
| IEC/CIM Reserve Bid Document | 1.2 aFRR bids | BSP -> LFC Operator | | |
| | 2.2 mFRR CM bids | BSP -> Reserve Allocator | | |
| | 3.1 Frequency activated reserves bids | BSP -> LFC Operator | | |
| | 3.4 Frequency activated reserves summary | LFC Operator -> Market Information Aggregator | | |
| | 4.0 mFRR EAM bids | BSP -> LFC Operator | | |

| Documentation | Arrow | Between | Sender/receiver in the Business Data View | Update of BRS |
|---|---|---|---|---|
| | 4.1 mFRR EAM bids (offer and need) | LFC Operator -> MOL Responsible | *Sender:*<br>**A04** System Operator<br>**A08** Balance responsible party<br>**A39** Data Provider<br>**A46** Balancing Service Provider<br><br>*Receiver:*<br>**A11** Market operator (TSOs)<br>**A34** Reserve Allocator<br>**A35** Merit Order List (MOL) Responsible (NOIS) | |
| IEC/CIM Bid availability document (ERRP) | 4.2 Bid availability document | LFC Operator -> BSP | *Sender:*<br>**A04** System Operator<br><br>*Receiver:*<br>**A46** Balancing Service Provider | |
| IEC/CIM Reserve Allocation Result Document (ERRP) | 1.3 aFRR contracts | BSP -> LFC Operator | *Sender:*<br>**A04** System Operator<br>**A11** Market operator (TSO)<br>**A34** Reserve Allocator<br><br>*Receiver:*<br>**A08** Balance responsible party<br>**A11** Market operator (NOIS)<br>**A46** Balancing Service Provider<br>**A48** LFC Operator (replaces A04 System Operator) | |
| | 2.3 mFRR CM contracts | Reserve Allocator -> BSP | | |
| | 3.3 Frequency activated reserves contracts | LFC Operator -> LFC Operator | | |