

SMART

User Manual FCR, aFRR, and mFRR

External GUI

Summary	This manual explains how BSPs can use SMART in order to communicate their Obligation Reserve Transfers (ORT) for FCR, aFRR, and mFRR to Elia.	
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1 About SMART

SMART (Secondary Market Reserve Trading) is an application, accessible to ELIA and the BSPs, where BSPs can exchange their awarded volumes for FCR, aFRR and mFRR. Obligation transfers that are confirmed in SMART are taken into account for the final obligation of BSPs. The modalities of the agreement, such as communication or payments between BSPs for the exchange are not included in the application.

The SMART application can be accessed using the following link for the reserves FCR, aFRR, and mFRR:

- <https://smart.app.elia.be>

1.1 New release

The new release of SMART takes into account the following changes that have a large impact on the secondary market service:

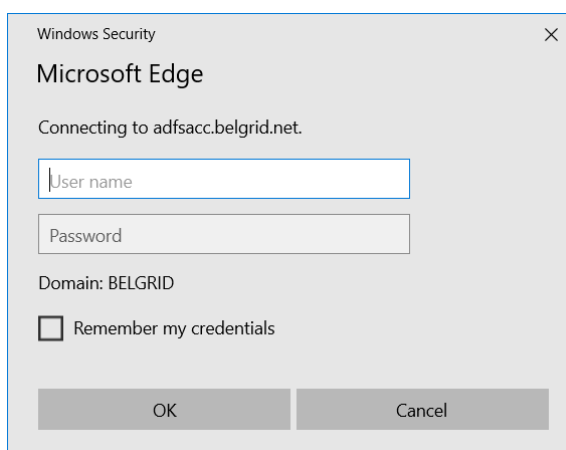
- The merge of the different type of contracts into one contract. As a result, no distinction is made in the secondary market between CIPU and non-CIPU.
- Due to the merge of contracts and the possibility to adapt its nomination closer to real time, the nomination transfer will be done in BMAP. Only the Obligation Reserve Transfer (ORT) is kept in SMART. An ORT will be used once the BSP has an awarded capacity and is not able to fulfill its obligation.
- An Obligation Reserve Transfer (ORT) is exchanged between exact two suppliers. If an awarded capacity needs to be transferred between multiple suppliers, multiple ORT's have to be created.
- The Initiating party submits the details of the ORT and the counterparty can choose to simply accept or reject the offer. It is not necessary anymore that both BSPs create a transfer with an exact match.

1.2 Login

To login on SMART, execute the following steps:

1. First, insert the URL for SMART in your browser:
 - Link: <https://smart.app.elia.be>

The following screen appears:



Windows Security

Microsoft Edge

Connecting to adfsacc.belgrid.net.

User name

Password

Domain: BELGRID

Remember my credentials

OK Cancel

2. Then, insert your username and password and click the button 'OK'.
3. You are now logged in.

1.3 Timing

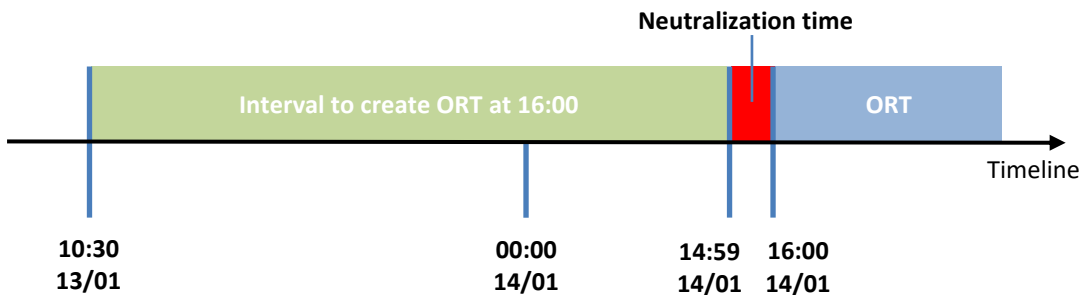
An ORT can be exchanged in Day-Ahead and Intraday exchange.

- Earliest moment to initiate an ORT:
 ORT's for day D can be initiated as of the **Gate Opening Time** on day D-1. The Gate Opening time is currently equal to **8:30** for **FCR**, **9:30** for **aFRR**, and **10:30** for **mFRR**. This is after the publication of the awarded Capacity Bids.
- Last moment to initiate or accept an ORT:
 ORT's can be initiated or accepted until the beginning of the first quarter hour interval minus the **Neutralization time**. The Neutralization time in SMART is currently equal to **1 hour** (In BMAP this is 45 min, which allows 15 min for energy bidding).
- The initiating party and counterparty need to adapt their Energy bids in BMAP after accepting the ORT.

Example

An mFRR ORT for the interval 16:00 - 20:00 on the 14th of January can be introduced as of 10:30 on the 13th of January. Indeed, the gate opening to initiate mFRR ORT's for the 14th of January is at 10:30 the day before, on the 13th of January.

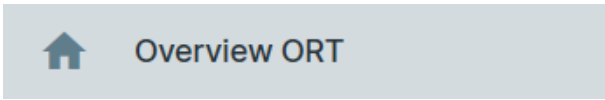
The very last moment to introduce the ORT is 14:59 on the 14th of January. From 15:00 until 16:00 the Neutralization time will block the creation of this ORT.



2 Overview ORT Screen

In the Overview ORT screen, you can create an overview of all ORT's in which you are involved.

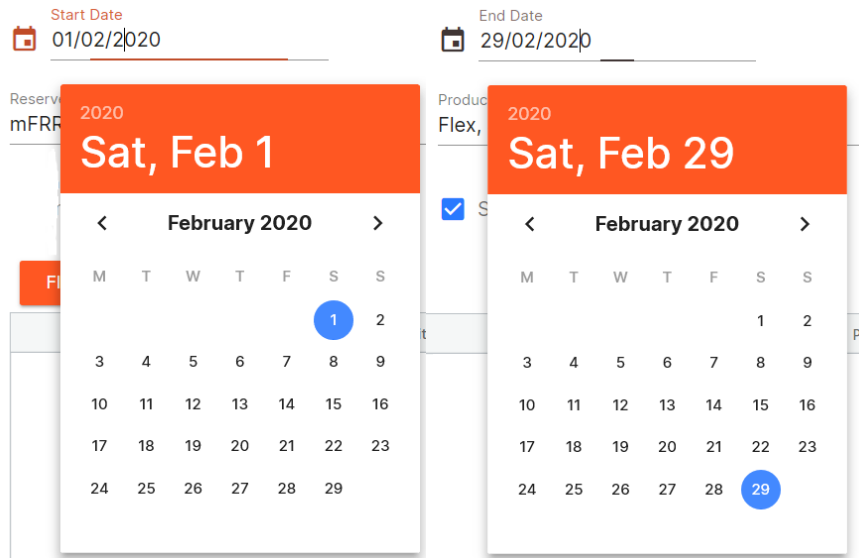
You can open the Overview ORT Screen by clicking on the following tab:



2.1 Creating an Overview

In order to create an overview in the Overview ORT screen, you have to fill in the filter criteria according to the ORTs you want to display:

1. Select a Start Date and an End Date.



2. Select a Reserve Type.

Reserve Type
mFRR

3. In case the Reserve Type mFRR is selected, select a Product Type.

Product Type
Flex, Standard

4. In case the Reserve Type aFRR is selected, select a Service Type

Service Type
Up, Down

5. Select whether or not to include the rejected ORT's in the overview.

Show Rejected ORTs

6. When you click on the button 'Filter', the overview of the ORT's for the selected period, reserve type, product type, and service type is shown.



The following image is an example of what the overview table could look like:

	Status	Delivery Date	Initiating...	Counterparty	From	To	Reserve Type	Product Type	Volume/QH (MW)	Total Volume (M
	Accepted	14/01/2020	Name of Initiating Party & Counterparty		18:00	20:00	mFRR	Flex	-4	-8
	Accepted	14/01/2020			18:00	21:15	mFRR	Standard	10	32.5
✓ ✗	Pending	15/01/2020			17:00	17:30	mFRR	Standard	12	6
	Accepted	15/01/2020			14:00	18:00	mFRR	Flex	10	40
	Accepted	15/01/2020			14:15	18:00	mFRR	Flex	-1	-3.75
	Accepted	15/01/2020			14:15	18:00	mFRR	Standard	-5	-18.75
	Accepted	15/01/2020			16:00	17:00	mFRR	Standard	54	54
	Accepted	15/01/2020			14:00	18:00	mFRR	Standard	3	12
	Accepted	15/01/2020			15:00	16:00	mFRR	Standard	54	54
	Rejected	15/01/2020			22:30	22:45	mFRR	Standard	-51	-12.75
✓ ✗	Pending	22/01/2020			20:00	20:15	mFRR	Flex	8	2
	Accepted	23/01/2020			20:30	20:45	mFRR	Flex	0	0

The table shows for every ORT the following characteristics:

Column	Description
Status	Status of the transfer. Depending on the status, it is shown in a different colour: <ul style="list-style-type: none"> - Accepted → Green - Pending → Pending - Rejected → Red ORT's that have not been submitted, but only saved, are not shown in this table.
Delivery Date	The date to which the ORT applies.
Initiating Party	BSP that created and submitted the ORT.
Counterparty	BSP that is on the receiving end of the ORT. This BSP can choose to accept or reject the ORT.
From	The <u>start time</u> of the <u>first quarter hour (QH)</u> to which the ORT applies for the concerned date.
To	The <u>end time</u> of the <u>last QH</u> to which the ORT applies for the concerned date.
Reserve Type	Balancing reserve type of the ORT.
Product Type	mFRR product type of the ORT. Only shown when the Reserve Type mFRR is selected.
Service Type	aFRR service type of the ORT. Only shown when the Reserve Type aFRR is selected.
Volume/QH (MW)	The volume that is transferred each QH. In case the Initiating Party is decreasing in obligation, a negative sign is added (-).
Total Volume (MWh)	The total volume (MWh) is calculated as the sum of quarter hour values divided by 4. Example: If Volume/QH (MW) = 5,00 From = 12:00 To = 20:15 Then Total Volume (MWh) = 5,00 MW * 33 / 4 = 5,00 MW * 8,25 h = 41,25 MWh

2.2 Accept or reject ORT

The user is only able to **accept** or **reject** an ORT when acting as the counterparty. Accepting a deal is not possible when:

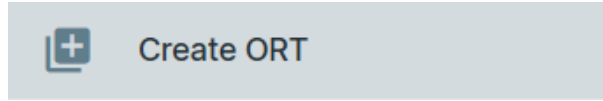
- The first QH is in the neutralization time or in the past.
- The ORT increases the Reserve Obligation of the Counterparty above its maximum prequalified volume, depending of the product where the transfer has been made.
- The ORT decreases the Reserve Obligation of the Counterparty with such a volume that the Obligation reserve has a result lower than zero.

3 Create ORT Screen

In the Create ORT Screen, you can initiate (create and submit) an ORT.

3.1 Creating an ORT

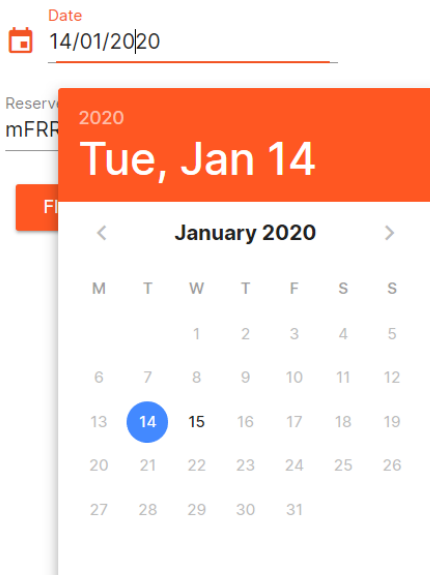
You can open the Create ORT Screen by clicking on the following tab:



Before a BSP can create an ORT, a BSP needs to have a contract for a certain volume of prequalified reserve. The BSP can increase its obligated reserve up until the maximum prequalified volume. The BSP can also decrease its obligated reserve down until zero, not lower.

In the ORT Screen, you can create an ORT by executing the following steps:

1. Select a Date. An ORT is created for a specified period of time (QH) and date. To create an ORT that covers two days, two separate ORTs have to be created.



2. Select a Reserve Type

Reserve Type
mFRR ▼

3. In case the Reserve Type mFRR is selected, select a Product Type.

Product Type
Flex, Standard ▼

4. In case the Reserve Type aFRR is selected, select a Service Type.

Service Type
Up, Down ▼

5. When clicking the button 'Filter', the 'Transferable Volume (MW)' and the 'Saved ORT's' table appears.



In the 'Transferable Volume (MW)' table, the current obligated reserves are shown. The columns denote the hours and the rows denote the quarter hour intervals of those hours.

If a quarter hour interval has a white cell, the interval is after the Neutralization time and the creation of an ORT is still possible.

If a quarter hour interval has a grey cell, the interval is in the past or in the Neutralization time. Hence, the creation of an ORT is not possible anymore.

Transferable Volume (MW)

	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24
0-15	50	50	50	50	50	50	50	50	60	60	60	50	50	50
15-30	50	50	50	50	50	50	50	50	60	60	60	50	50	50
30-45	50	50	50	50	50	50	50	46	60	60	60	50	50	50
45-60	50	50	50	50	50	50	50	46	60	60	60	50	50	50

Saved ORTs

Delivery Date	Initiatingparty	Counterparty	From	To	Reserve Type	Product Type	Volume
No Rows To Show							

6. When clicking the button 'Create ORT', the 'ORT creation pop-up screen' appears.



Create ORT - 14/01/2020

Increase
 Decrease

Volume/QH (MW)

The Volume/QH (MW) field must be 1 or more

From

To (included)

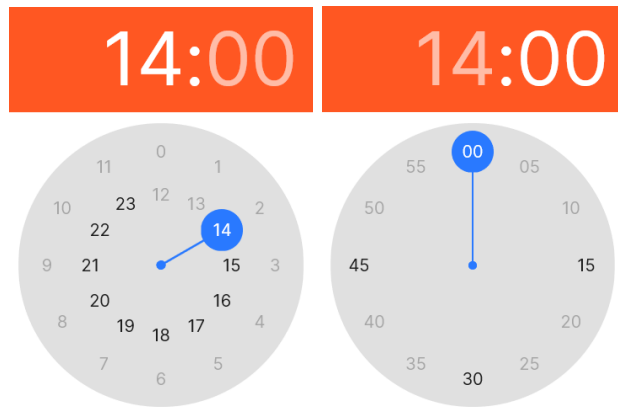
Counterparty ▼
The Company field is required

7. Select whether you want to create an ORT to increase or decrease your current Obligated Reserve.

- When an obligation is transferred **to** another BSP, it is considered an ORT decrease.

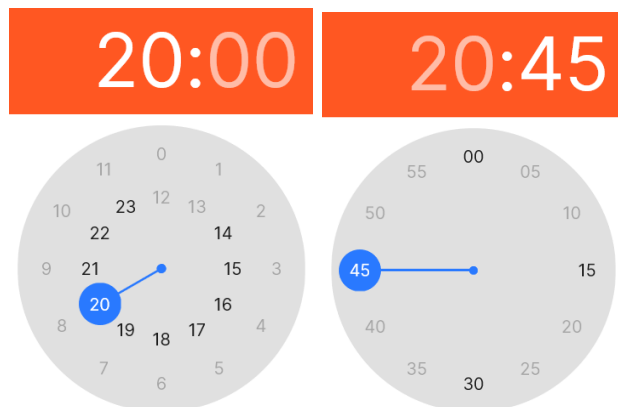
- When an obligation is transferred **from** another BSP, it is considered an ORT increase.
8. Select the size of the volume.
 9. Select the start time of the first interval in the field 'From'. First, you have to select the value of the hour, then you have to select the value of the minutes.

No start time in the past or in the Neutralization time can be selected. For example, if the first available interval after the Neutralization time is 14:00 – 14:15, only a Start Time equal to or later than 14:00 can be selected.



10. Select the start time of the last interval in the field 'To (included)'. First, you have to select the value of the hour, next you have to select the value of the minutes.

As the title explains, this interval is still included in the ORT. For example, when the value 20:45 is selected, the interval 20:45 – 21:00 is included in the ORT.



11. Select the Counterparty of the ORT.
12. When you click the button 'Save', the ORT is saved and appears in the table 'Saved ORT's' as shown below.

Saved ORTs

	Delivery Date	From	To	Reserve Type	Product Type	Volume/QH (MW)	Total Volume (MW)
	14/01/2020	18:45	23:45	mFrr	Standard	10	210

13. Finally, you can submit or delete the saved ORT.
 - a. To submit a saved ORT, click the button 'Submit All'. As the name of the button indicates, all saved ORT's in the 'Saved ORT's table will be submitted.




After clicking this button, the following pop-up screen will appear. If you click the button 'Yes' to confirm, the saved ORT's will be submitted. After this final confirmation, it will not be possible to reverse this choice. If you click the button 'No', you will return to the Create ORT screen. The saved ORT's will remain unchanged.

Submit - confirmation

Are you sure you want to submit
the ORTs that you have created ?

NO YES

- b. To delete a Saved ORT, click the trash can  next to the Saved ORT you want to delete. The following pop-up screen will appear. If you click the button 'OK', the Saved ORT will be deleted. If you click the button 'Cancel', you will return to the Create ORT screen and the saved ORT will remain unchanged.

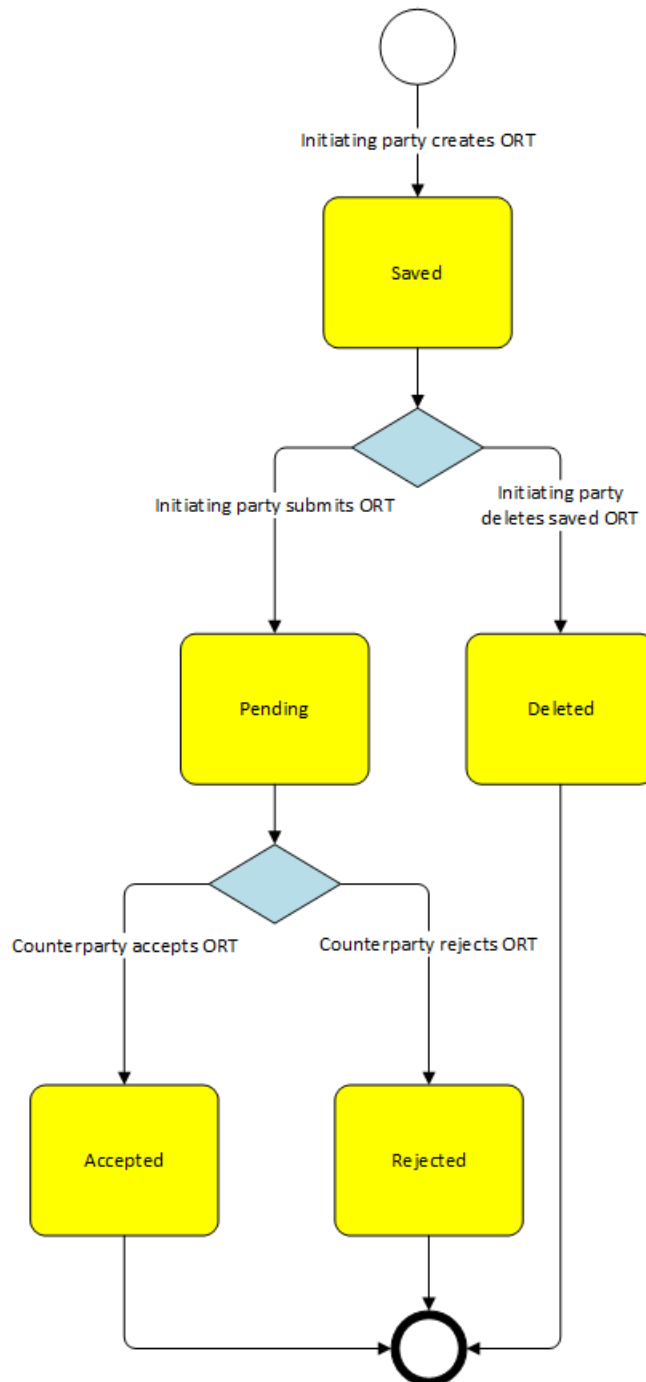
Delete - warning

Are you sure to delete this deal ?

CANCEL OK

4 Status flow

Below you can find an overview of the different statuses an ORT can obtain linked with the actions that can be performed by the different parties.



5 Report screen

In the report screen you can export a list of ORTs to a pdf file, an excel file, or a word file.

You can open the Report screen by clicking on the following tab:



In the Report screen, you can create a report by executing the following steps:

1. Select the Reserve Type.

Report
mFRR

2. Select the format or the report. This can be PDF, excel, or word.

Format
PDF

3. Select the Start Date and the End Date.

Start Date 01/01/2020 End Date 31/01/2020


Two calendar pop-ups for January 2020. The left calendar shows Wednesday, Jan 1 selected. The right calendar shows Friday, Jan 31 selected.

4. Click the button 'Filter'.



After clicking the button, a preview of the report will be shown. The following image gives an example of a report:

Status	Delivery Date	Increase	Decrease	From (QH)	To (QH)	Reserve Type	Product Type	Volume / QH (MW)	Total Volume (MW)
Pending	02/01/2020	Name of Initiating Party & Counterparty		18:00:00	20:15:00	mFRR	Standard	10	23
Accepted	02/01/2020			15:00:00	15:45:00	mFRR	Standard	4	3
Pending	03/01/2020			16:30:00	18:45:00	mFRR	Standard	5	11
Pending	03/01/2020			19:00:00	20:15:00	mFRR	Standard	12	15
Pending	07/01/2020			18:00:00	22:15:00	mFRR	Standard	15	64
Pending	07/01/2020			18:30:00	20:45:00	mFRR	Flex	30	68
Rejected	07/01/2020			17:15:00	23:00:00	mFRR	Flex	25	144
Accepted	09/01/2020			09:15:00	10:15:00	mFRR	Standard	-2	-2
Accepted	09/01/2020			13:00:00	14:00:00	mFRR	Flex	-1	-1
Accepted	09/01/2020			00:00:00	1:00:00:00	mFRR	Standard	-5	-120

5. Finally, the type of the report can be chosen by clicking on the 'Save Icon' . After doing so, the application will show the different report types. When clicking on one of these buttons, the report will be downloaded in the corresponding file type.

EXCEL

WORD

PDF

