

Volume

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Market Management System

Scheduling System  
Manual for Market  
Participants (Web  
Client)

MARKET MANAGEMENT SYSTEM

# Scheduling System Manual for Market Participants (Web Client)

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# Application Basics

Scheduling Web Client is a web based application. It is available on: <https://mms.ems.rs/External-Scheduling-Client>.

Its functionalities are implemented according to documents and definitions produced by the ENTSO-E Electronic Data Interchange (EDI) Working Group. Links to particular documents are available bellow, but you can check the entire [EDI Library](#).

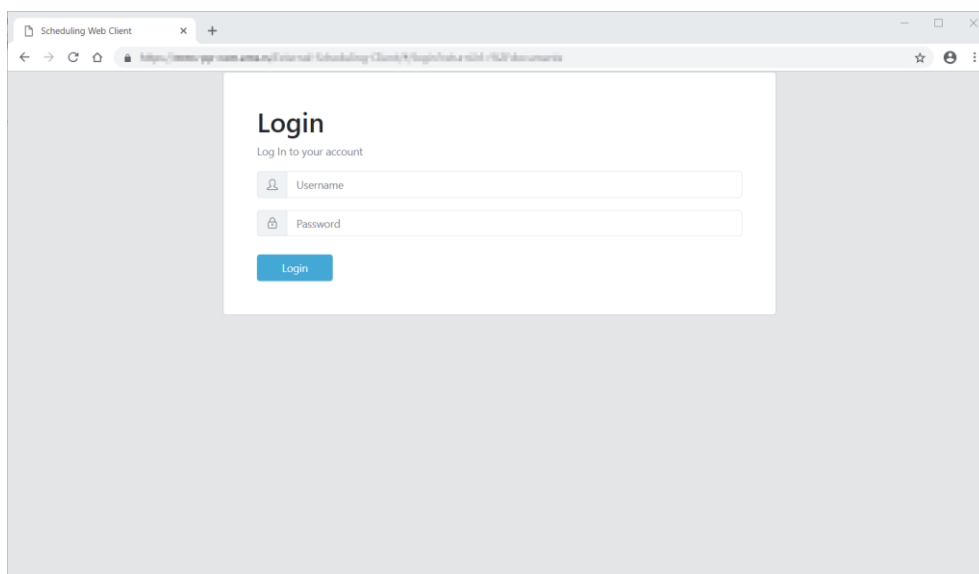
Scheduling Web Client is html application compatible with the following browsers:

- Chrome
- Microsoft Edge
- Internet Explorer 11
- Firefox
- Opera
- Vivaldi
- ...

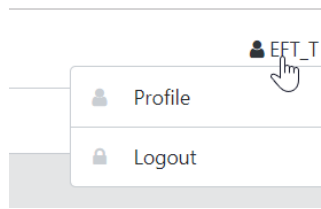
## Login

The user is required to use an electronic certificate (cryptographic hardware token) and Scheduling Web Client user account (username and password logon). After selecting certificate, dialog with the username and password field is displayed.

Once you are logged in, the application will be synchronized with the server.



Logout option is available in right upper corner.



Scheduling Web Client supports following functions, available on the left side navigation tree:

- **Documents** – all Balance Responsible Schedule related documents;
- **Transmission Rights Portfolio** – the document with a complete portfolio of Market participant (Party) transmission capacity rights;
- **User Profile.**

# Documents

Documents view is a main view of provided Balance Responsible Schedules and related documents. On the top filter is available with Time Interval and Documents Type options. In the table below from the right first [Edit](#) and [View](#) options are available. Balance Responsible Schedules can be edited, all other responses can be reviewed. Following Document Identification, Processed date and time, Document Type, Time Interval, Sender and Receiver information is available. Next Reason Codes data are available, with following logic used:

- **Balance Responsible Schedules (BRS)** have link to related latest Acknowledgement, Confirmation and Anomaly reports, with related document Reason Code and time of creation displayed. While using “mouse over” function, additional Reason Text is displayed and with clicking on hyperlink next to it, related document is opened;

Document Identification	Processed	Document Type	Time Interval	Sender	Receiver	Process Type	Acknowledgement
<a href="#">Edit</a> 20181004_BRS_12XEFT_135256 (2)	03.10.2018 14:05	- Balance responsible schedule	04.10.2018	EFT-SWITZERLAND (12XEFT-SWITZERL)	EMS (10XCS-SERBIATSOB)	- Schedule day	- 03.10.2018 14:05
<a href="#">View</a> 20181004_ACK-EFT-SWITZERL_00005	03.10.2018 14:05	- Acknowledgement Document	04.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)		

- **All other documents** (BRS related documents) have just their own code displayed.

Users can download all documents as XMLs using button. Data can be filtered in grid table also by all available columns.

Home / Documents

Document 20181004 BRS 12XEFT-135256 (ver. 2) has been updated. Please see the following [acknowledgement document](#) for more information.

[+ Create](#) [Upload](#)

Time Interval From: 03.10.2018 To: 10.10.2018

Document Types: Select document types. [Search](#)

Document Identification	Processed	Document Type	Time Interval	Sender	Receiver	Process Type	Acknowledgement	Confirmation	Anomaly
<a href="#">Edit</a> 20181004_BRS_12XEFT_135256 (2)	03.10.2018 14:05	- Balance responsible schedule	04.10.2018	EFT-SWITZERLAND (12XEFT-SWITZERL)	EMS (10XCS-SERBIATSOB)	- Schedule day	- 03.10.2018 14:05		
<a href="#">View</a> 20181004_ACK-EFT-SWITZERL_00005	03.10.2018 14:05	- Acknowledgement Document	04.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181004_BRS-CNF-EFT-SWITZERL_00001	03.10.2018 14:00	- Intermediate confirmation report	04.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)	- Schedule day			
<a href="#">View</a> 20181004_BRS-ANO-EFT-SWITZERL_00001	03.10.2018 14:00	- Anomaly Report	04.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181004_ACK-EFT-SWITZERL_00004	03.10.2018 14:00	- Acknowledgement Document	04.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181004_ACK-EFT-SWITZERL_00003	03.10.2018 13:53	- Acknowledgement Document	04.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181003_ACK-EFT-SWITZERL_00005	03.10.2018 13:48	- Acknowledgement Document	03.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181003_ACK-EFT-SWITZERL_00004	03.10.2018 13:48	- Acknowledgement Document	03.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181004_ACK-EFT-SWITZERL_00002	03.10.2018 13:16	- Acknowledgement Document	04.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181004_ACK-EFT-SWITZERL_00001	03.10.2018 13:16	- Acknowledgement Document	04.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181003_ACK-EFT-SWITZERL_00003	03.10.2018 11:46	- Acknowledgement Document	03.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181003_BRS-ANO-EFT-SWITZERL_00003	02.10.2018 12:00	- Anomaly Report	03.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181003_BRS-CNF-EFT-SWITZERL_00002	02.10.2018 10:13	- Final confirmation report	03.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)	- Schedule day			
<a href="#">Edit</a> 20181003_BRS-EFT-SWITZERL_153700 (2)	02.10.2018 10:12	- Balance responsible schedule	03.10.2018	EFT-SWITZERLAND (12XEFT-SWITZERL)	EMS (10XCS-SERBIATSOB)	- Schedule day	- 02.10.2018 10:12	- 02.10.2018 10:13	
<a href="#">View</a> 20181003_ACK-EFT-SWITZERL_00002	02.10.2018 10:12	- Acknowledgement Document	03.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				
<a href="#">View</a> 20181003_BRS-CNF-EFT-SWITZERL_00001	02.10.2018 09:52	- Final confirmation report	03.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)	- Schedule day			
<a href="#">View</a> 20181003_ACK-EFT-SWITZERL_00001	02.10.2018 09:47	- Acknowledgement Document	03.10.2018	EMS (10XCS-SERBIATSOB)	EFT-SWITZERLAND (12XEFT-SWITZERL)				

## Balance Responsible Schedules

A **Balance Responsible Schedule** is the only document to be entered manually via GUI in Scheduling Web Client Documents section. It provides the position of a Market participant (Party) or a Domain related to some market information (i.e. Document Type). It includes a set of time series schedules.

It is required, that one schedule document (attributes checked are: *Domain, In/Out Area, In/Out Party, Capacity Contract Type* and *Capacity Agreement Identification*) is exchanged for a date and role, which means that if there are additions, modifications or suppressions to the set of time series

within the schedule document, the Document Identification remains unchanged but the version number must be increased. In Scheduling Web Client the version number is automatically increased, when user changes and confirms schedule document.

To enter new Balance Responsible Schedule, click on **+ Create** button in the upper left corner of Documents section. Most of the data required by ESS standard is already pre-entered and cannot be changed.

Domain “**34Y-ESS-CRP----0**” and Object aggregation “**A03**” (Party) are mandatory information when Business type **A04** (Consumption) is selected. Schedule messages without required or with irregular data will be rejected.

Domain “**34Y-ESS-PRP----7**” and Object aggregation “**A03**” (Party) are mandatory information when Business type **A01** (Production) is selected. Schedule messages without required or with irregular data will be rejected.

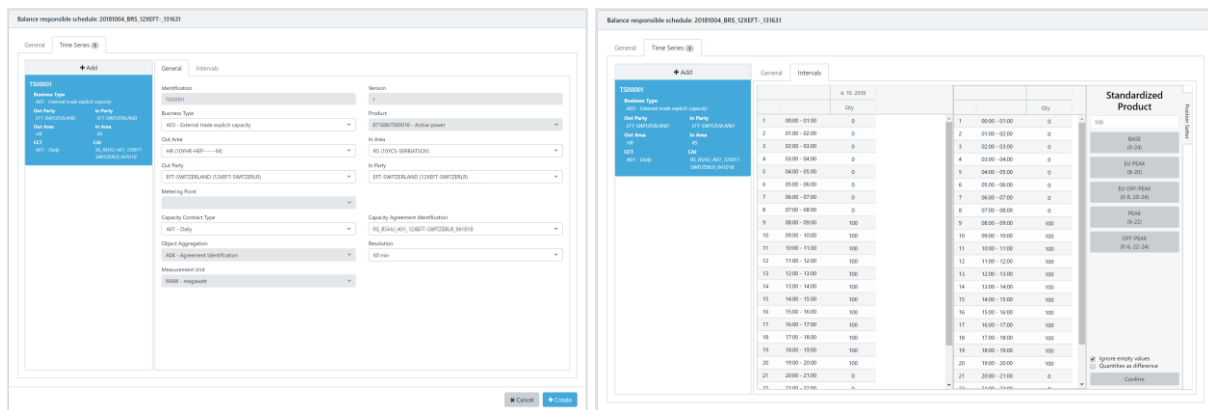
Schedule time series entry is available on the **Time Series** tab. Users can create a new one with clicking **+ Add** button or edit an existing with click on it in the left part of the Time Series view. On the Schedule Time Series dialog some data are (pre)entered automatically and cannot be changed according to ETSO rules. Capacity Contract Type (CCT) and Capacity Agreement Identification (CAI) are mandatory information, when Business type A03 (External trade explicit capacity) is selected. Schedule messages without required or with irregular data will be rejected. See [ESS Implementation Guide](#) for more information about Schedule documents.

Time series quantity entry is available on **Intervals** tab. User can type values directly, use copy (Ctrl+C) / paste (Ctrl+V) functions or alternatively, the values can be set in bulk by using the **Position Setter** tool, available by clicking the button in right corner. While clicking Position Setter, **Standardized Product** options dialog is opened. It allows choosing the delivery profile for time interval predefined on General tab using predefined products (Base, EU Peak, EU Off-peak, Peak, Off-peak) or entering each value individually. When CONFIRM button is pressed, the values are copied into the main grid.

If **Ignore empty values** option is checked, CONFIRM will not copy empty cells as 0 to the main grid – it will leave the original data in those positions unchanged. For example:

- First document version has BASE time interval Qty (10);
- In second document version user wants to reduce EU OFF-PEAK Qty to 5. This can be simply done with Position Setter – add Qty 5, then use EU OFF-PEAK option and finally Ignore empty values option, so non EU OFF-PEAK values remains unchanged on Intervals grid.

You can select to have **Quantities as difference** (offsets) from the existing time series intervals. For example, if you would like to lower quantities for the whole time series for 1MW, you could enter quantity -1. After confirming the dialog 1 MW will be subtracted from intervals.



Document entry is finished by pressing **Create** button. System immediately respond with [Acknowledgement document](#) (ACK) and if everything was ok, the Balance Responsible Schedule appears in the Documents list. If there was any problem, complete document is rejected and negative ACK or system message is provided to user. In this case user need to reenter/resubmit file once again.

Additionally prepared XML file can be sent by clicking on **Upload** function. Once file is chosen, its uploaded (sent) to system operator automatically and system also immediately respond with the ACK message.

## Acknowledgement Documents

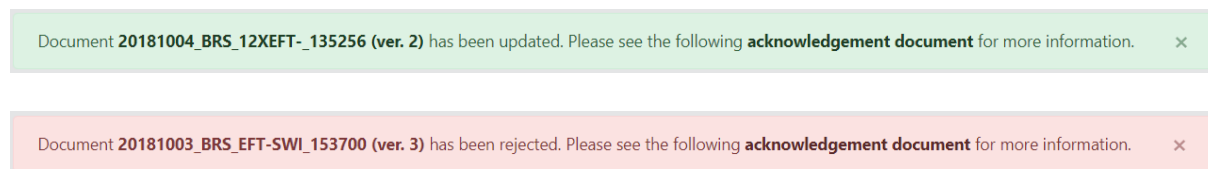
The **Acknowledgement document** is used in conjunction with the transmission of all electronic documents defined in the ETSO process for technical or application acknowledgement. A document is checked by the system in two levels:

- It is first controlled at system level to detect **syntax errors** (XML parsing errors, file, processing errors, etc.);



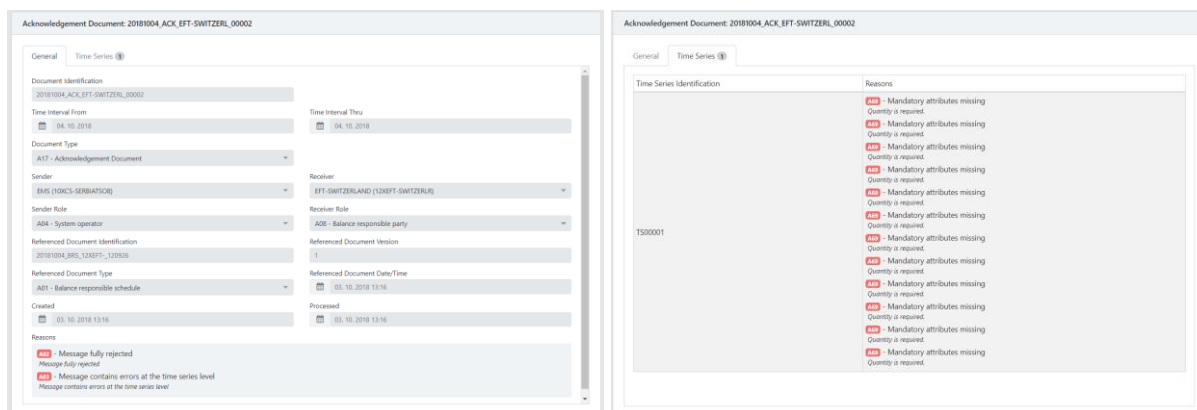
- Next it's controlled at the application level to detect any **semantic errors** (invalid data, wrong process, etc.).

All Acknowledgment documents are available as other documents in Documents view, but while entering BRS system immediately responds with message and link to acknowledgement document as shown on picture below:



If there is a problem encountered at the first level then a technical acknowledgement may be sent to inform the originator of the problem. If errors are encountered at the second level or if the application can successfully process the information then an application acknowledgement may be sent to inform the originator of the situation. See [ESS Implementation Guide](#) and [EAD Implementation Guide](#) for more information about Acknowledgements documents.

With the Web Client all of Acknowledgement documents sent to particular party in question can be reviewed. On the **General tab** detailed information about original document, parties, date/time and acknowledgement reason (**A01 – Message fully accepted** or **A02 – Message fully rejected**) are displayed. **Time Series tab** can provide more information about rejected time series and the reasons of the rejections.



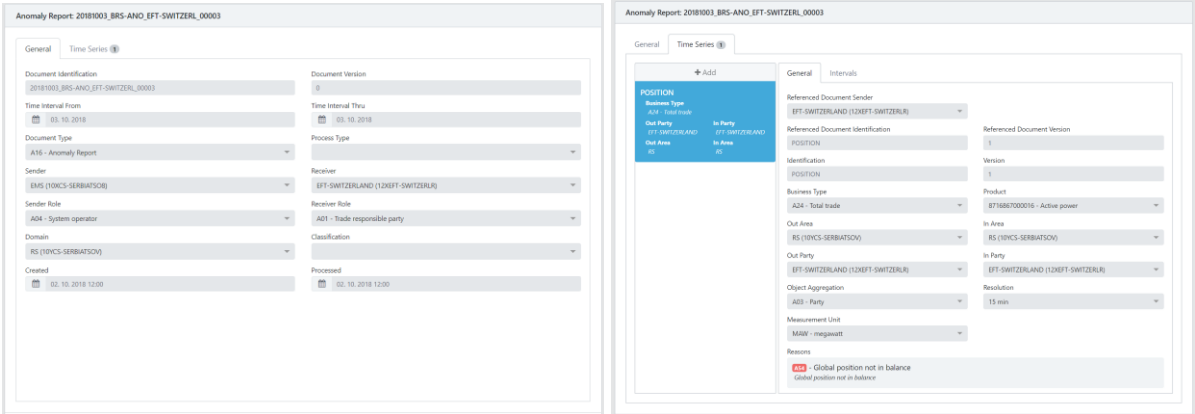
## Anomaly Reports

An **Anomaly report** contains the time series that have been identified as being in error (mismatched) for the party in question. It is generated as soon as the system operator has all the necessary information in his possession.

Time series found to be in error need to be resent via the retransmission of the applicable schedule message (with a new message version) containing the corrected time series (with the version number of the retransmit message) by provider or provider counter party. The retransmitted

schedule message will also include all the non-erroneous time series that were sent with the message. These should maintain the version number of their last clean transmission. See [ESS Implementation Guide](#) for more information about Anomaly reports.

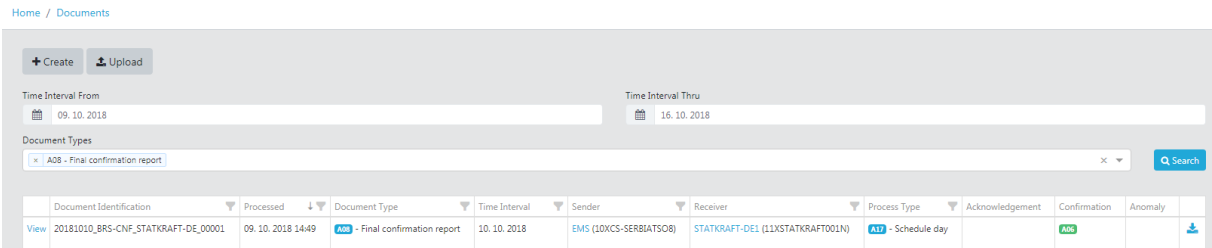
With the Web Client all of anomaly reports sent to a particular interconnection trade responsible (ITR)/Balance Responsible Party (BRP) can be reviewed. On the **General tab** sender, receiver and date/time information are available. **Time series tab** provides detailed information about time series in error.



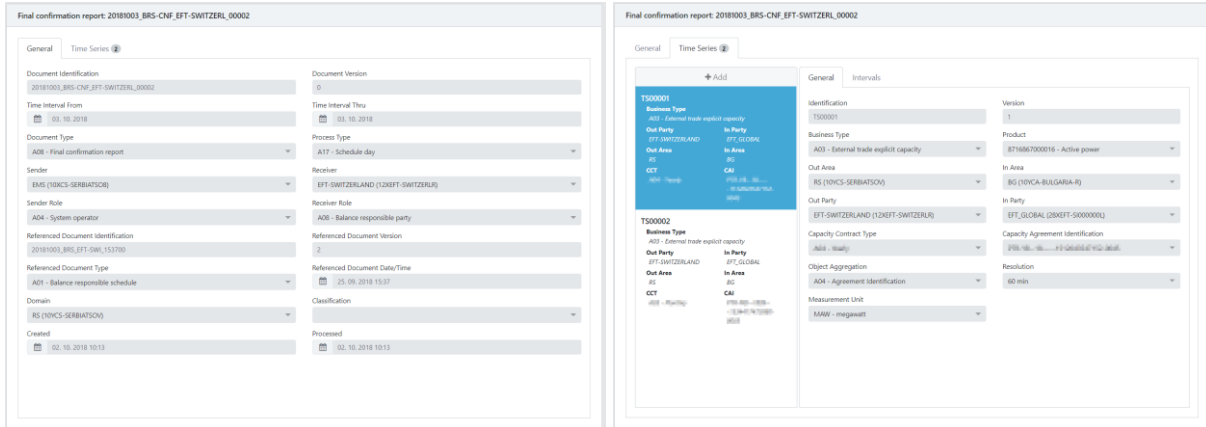
### Confirmation Reports

The **Confirmation report** contains all the time series that have been sent in the schedule document. It may include one or several time series that the system operator has imposed on the market participant in compliance with market rules. Balance Responsible Schedule can either be globally confirmed, or in the case of discrepancies, you will be informed of what aspects of your time series have been accepted. System generates intermediate confirmation reports and final confirmation report (last after cutoff time). See [ESS Implementation Guide](#) for more information about Confirmation reports.

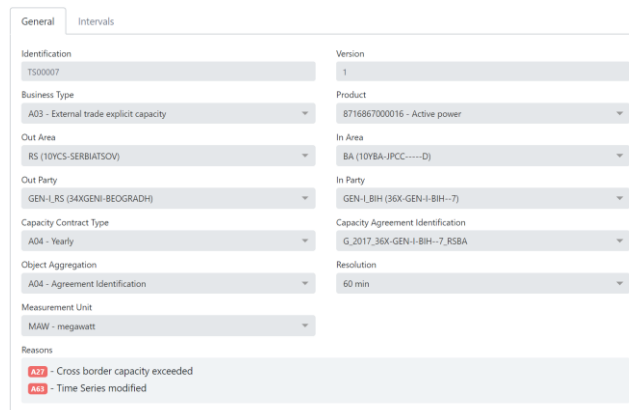
On the main **Documents** view first Confirmation Reason Code (*A06 – Schedule accepted, A07 – Schedule partially accepted or A08 – Schedule rejected*) is available.



Next on the **General tab** Of Confirmation Report information about Document Type (Intermediate or Final Confirmation Report), Sender, Receiver, Referenced Document Identification, Referenced Document Version, Referenced Document Type and processed date/time are displayed.



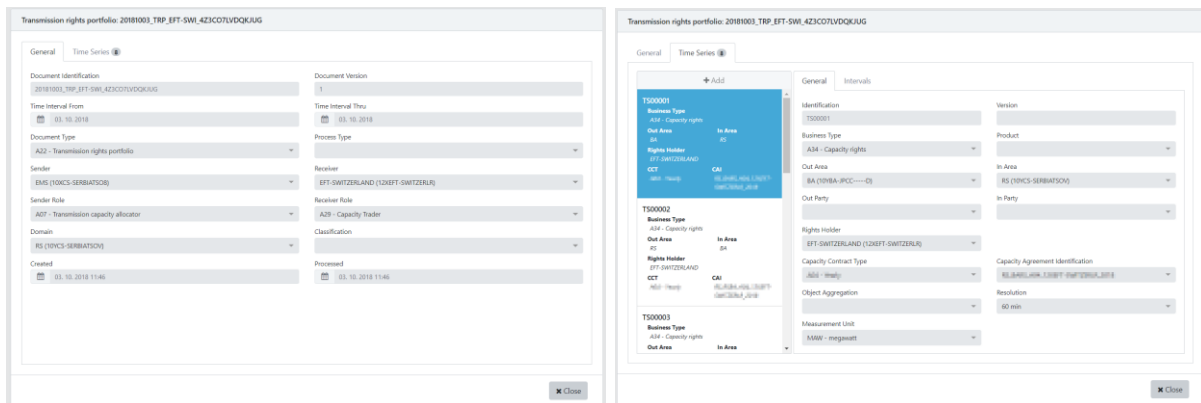
**Time series tab** provides detailed information about confirmed series and decreased or increased quantities in case of mismatches on Interval tab. Each time series with any kind of mismatched or modifications is clearly marked with corresponding Reason Codes on General tab, as on example below:



# Transmission Rights Portfolio

Transmission Rights Portfolio (TRP) option provides **Rights document** with document type **A22: Transmission Rights Portfolio**, business type **A34: Capacity rights** and it informs Capacity trader about the allocated capacity rights. The document is created upon user request, and user can request new document with **Request New** button. If there is already TRP created for the day in the question, a new version of already existed document will be created.

The document contains a complete portfolio of transmission capacity rights, whether allocated by EMS or by any other capacity allocator (if rights documents have been transmitted to EMS).



**Please Note:** Each Market Participant (Party) can receive (or view in drop box while manually entering Balance Responsible Schedules) only their own allocated capacity rights (CCTs+CAIs). Capacities owned from cross-border counter party are not displayed and need to be provided from counter party (and entered manually while entering Balance Responsible Schedules via Web Client).

It is possible to send **Status Request** document also as XML document via email or upload it. See [ETSO Status Request Implementation Guide](#) for more information about Status Request documents.

# User Profile

On User Profile page, users can review information about their profile (username, associated party etc.). Last password change time, password expiration time and change password options are also available.

The screenshot shows a 'User Profile' interface with the following details:

Field	Value
Username	EFT_T
Display Name	EFT_Test
User Party Display Name	EFT-SWITZERLAND (12XEFT-SWITZERLR)
Password Last Changed	03. 10. 2018 11:46
Password Expires	01. 01. 2019 10:46

A 'Change Password' button is located at the bottom of the profile card.

# Remarks

Access to Scheduling Web Client is only allowed to Balance Responsible Parties (BRPs) according to national Grid Code and Market Code. Market roles used is the Manual are in case of EMS included in role of BRP.