

# **Day Ahead Scheduling Process 2019**

## **SCHEDULING MODUL**

**Belgrade, November 16th, 2018**

## Nomination of Schedules in Day Ahead process



**Nomination Rules for Physical Transmission Rights between Bidding Zones of EMS and MAVIR**

[http://www.ems.rs/page.php?kat\\_id=660](http://www.ems.rs/page.php?kat_id=660)

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**Nomination Rules for the Bidding Zone Border Macedonia – Serbia**

[http://www.ems.rs/page.php?kat\\_id=729](http://www.ems.rs/page.php?kat_id=729)

[http://www.ems.rs/media/uploads/2019/Pra  
vila\\_2019](http://www.ems.rs/media/uploads/2019/Pra<br/>vila_2019)

/MKRS/ENG%2005%20MK-  
RS%20Nomination%20rules\_2019\_under\_ap  
proval.pdf

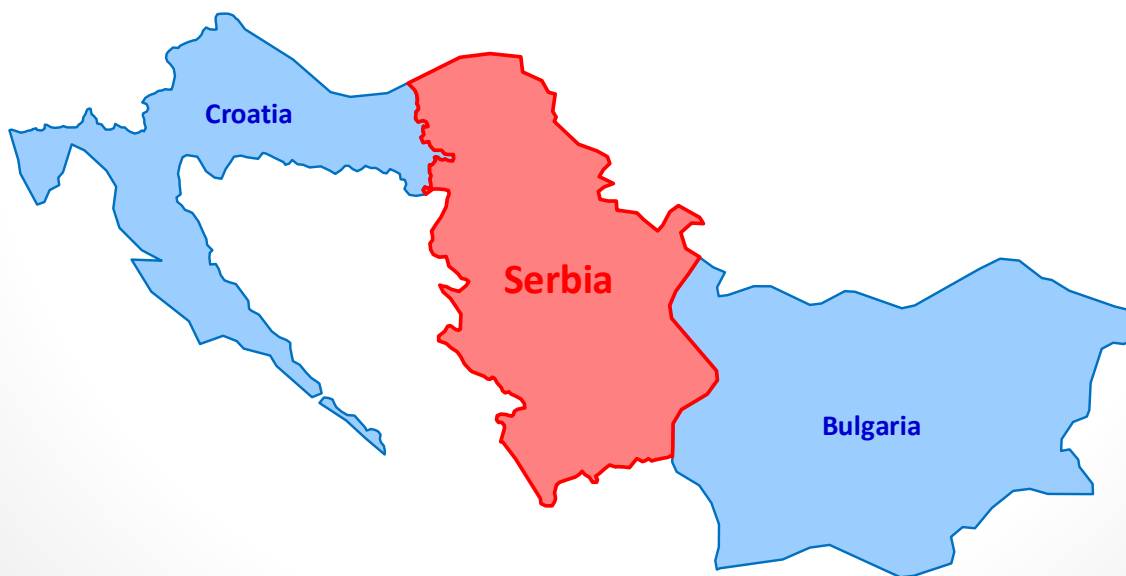
## Nomination of Schedules in Day Ahead process

Nomination Rules for the Bidding Zone  
Border Croatia - Serbia

[http://www.ems.rs/page.php?kat\\_id=662](http://www.ems.rs/page.php?kat_id=662)

Nomination Rules for the Bidding Zone  
Border Bulgaria - Serbia

[http://www.ems.rs/page.php?kat\\_id=661](http://www.ems.rs/page.php?kat_id=661)



## Nomination of Schedules in Day Ahead process

- [Pravila za godišnje i mesečne aukcije za raspodelu prenosnih kapaciteta na granici regulacionih oblasti EMS AD Beograd i Nezavisnog operatora sistema u Bosni i Hercegovini](#)

Odeljak 9. Korišćenje dodeljenog kapaciteta

- [Pravila za dnevne aukcije za raspodelu prenosnih kapaciteta na granici regulacionih oblasti EMS AD Beograd i Nezavisnog operatora sistema u Bosni i Hercegovini](#)

Odeljak 8. Korišćenje dodeljenog kapaciteta

[http://www.ems.rs/page.php?kat\\_id=726](http://www.ems.rs/page.php?kat_id=726)



- Yearly and Monthly Allocation Rules for the Coordinated Allocation of Cross Zonal Capacities at the Border between the Bidding Zones of C.N.T.E.E. TRANSELECTRICA and EMS AD BEOGRAD

Section 12. USE OF PTRs [http://www.ems.rs/page.php?kat\\_id=180](http://www.ems.rs/page.php?kat_id=180)

- Daily Auction Rules for the Allocation of Cross Zonal Capacities at the Border between the Bidding Zones of EMS AD Beograd (“EMS”) and C.N.T.E.E. Transelectrica S.A. (“Transelectrica”) for 2019

Section 8 Use of PTRs: [http://www.ems.rs/page.php?kat\\_id=726](http://www.ems.rs/page.php?kat_id=726)

## Nomination of Schedules in Day Ahead process

[http://www.ems.rs/page.php?kat\\_id=727](http://www.ems.rs/page.php?kat_id=727)

- Grid Code

[http://www.ems.rs/media/uploads/2018/Pravila%20o%20radu%20prenosnog%20sistema/PRAVILA\\_O\\_RADUPRENOSNOG\\_SISTEMA\\_.pdf](http://www.ems.rs/media/uploads/2018/Pravila%20o%20radu%20prenosnog%20sistema/PRAVILA_O_RADUPRENOSNOG_SISTEMA_.pdf)

- Pravila za raspodelu prekograničnih prenosnih kapaciteta (Rules for allocation of Available Cross Border Transfer Capacities)

9. Korišćenje dodeljenog prava na kapacitet (Use of PTRs)

[http://www.ems.rs/media/uploads/2019/Pravila\\_2019/SPLIT/2019\\_Pravila%20za%20raspodelu%20prekograničnih%20prenosnih%20kapaciteta\\_postupak\\_odobravanja.pdf](http://www.ems.rs/media/uploads/2019/Pravila_2019/SPLIT/2019_Pravila%20za%20raspodelu%20prekograničnih%20prenosnih%20kapaciteta_postupak_odobravanja.pdf)



## Serbia – Bulgaria

### Nomination of Schedules in Day Ahead process

Joint Allocation Office – JAO is going to be organized Yearly, Monthly and Daily auctions for border (RS-BG) for 2019

- Matrix of Capacity Agreement Identification - CAI is going to be changed
- Matching of transactions is going to be done according to:
  - In/Out Area,
  - In/Out Party,
  - CAI &
  - CCT (Capacity Contract Type)

## Auctions organized by JAO

Matrix for CAI, *by JAO*

contract ID = CAI= **DDMMYY##-AA-BB-ZZRR**

DDMMYY	##-	AA-	BB-	ZZ	RR
Date before first delivery date	Unique identifier for market participant (For example QZ)	Out Area (For example SR for Serbia)	In Area (For example BG for Bulgaria)	Unique Identifier of the auction template (examples are on the next slide)	Auction Round (usually 01 or 02)

\* Example: **311218DP-RS-BG-AZ01**

## Auctions organized by JAO

ZZ	
RA	Yearly base market from Croatia to Serbia
RB	Monthly base market from Croatia to Serbia
RC	Daily market from Croatia to Serbia
RD	Yearly base market from Serbia to Croatia
RE	Monthly base market from Serbia to Croatia
RF	Daily market from Serbia to Croatia
RG	Shadow Daily market from Croatia to Serbia
RH	Shadow Daily market from Serbia to Croatia
AT	Yearly base market from Bulgaria to Serbia
AU	Monthly base market from Bulgaria to Serbia
AV	Daily base market from Bulgaria to Serbia
AW	Shadow Daily base market from Bulgaria to Serbia
AX	Yearly base market from Serbia to Bulgaria
AY	Monthly base market from Serbia to Bulgaria
AZ	Daily base market from Serbia to Bulgaria
B0	Shadow Daily base market from Serbia to Bulgaria

\* ZZ – Auction ID



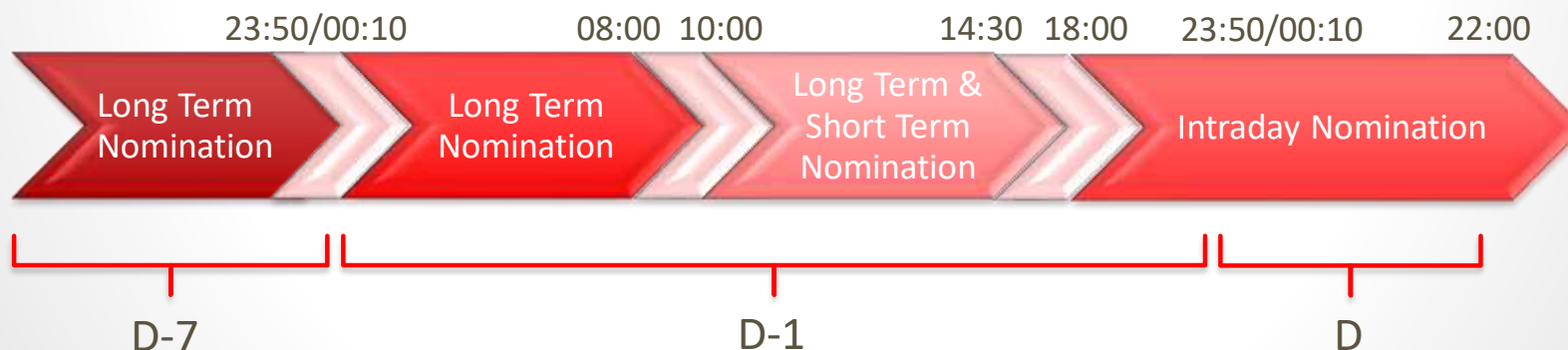
## Nomination of Schedules in Day Ahead process Nomination Diagram

- User Manual:

[http://www.ems.rs/page.php?kat\\_id=43](http://www.ems.rs/page.php?kat_id=43)

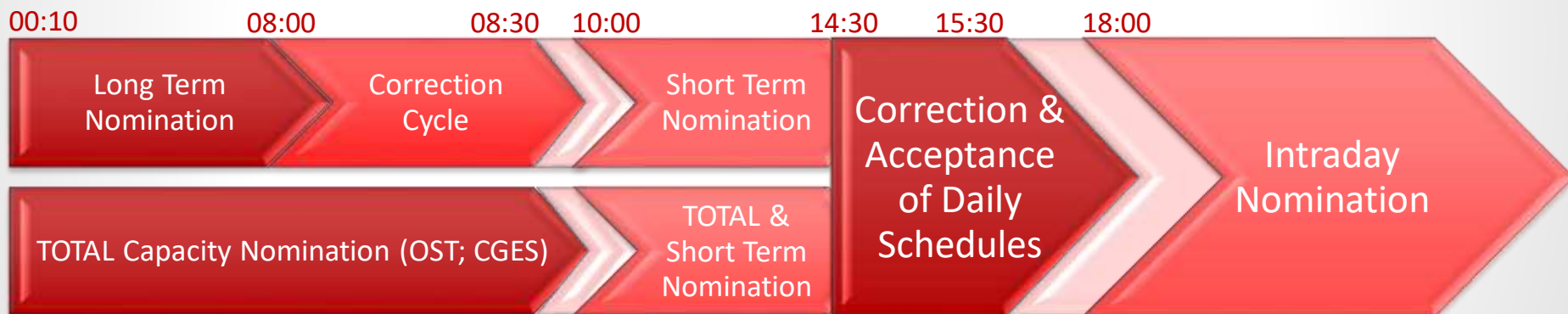
- Rules for Nomination of Schedules in Day Ahead process :

[http://www.ems.rs/page.php?kat\\_id=79](http://www.ems.rs/page.php?kat_id=79)



*\* System unavailability: Daily 23:50-00:10*

## Nomination of Schedules in Day Ahead process Nomination Diagram



## Nomination of Schedule – KOSTT in EMS Control Area

All exchanges between EMS Control Area and KOSTT will be nominated as internal trade between BRP in EMS Control Area and EIC **10XRKS-KOSTT-007**

- Treatment of KOSTT is like a Balance Responsible Party

# Scheduling Web Client

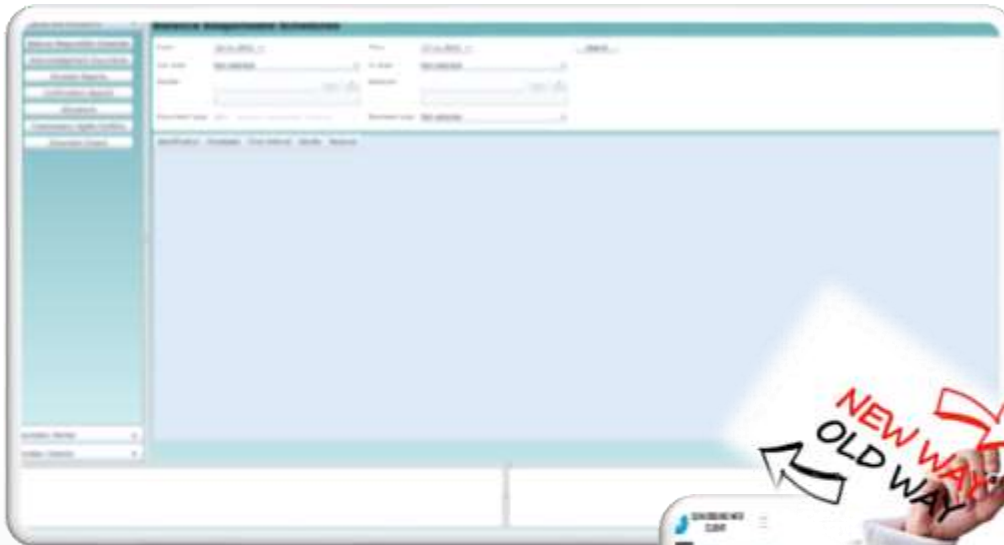


**SCHEDULING MODUL**

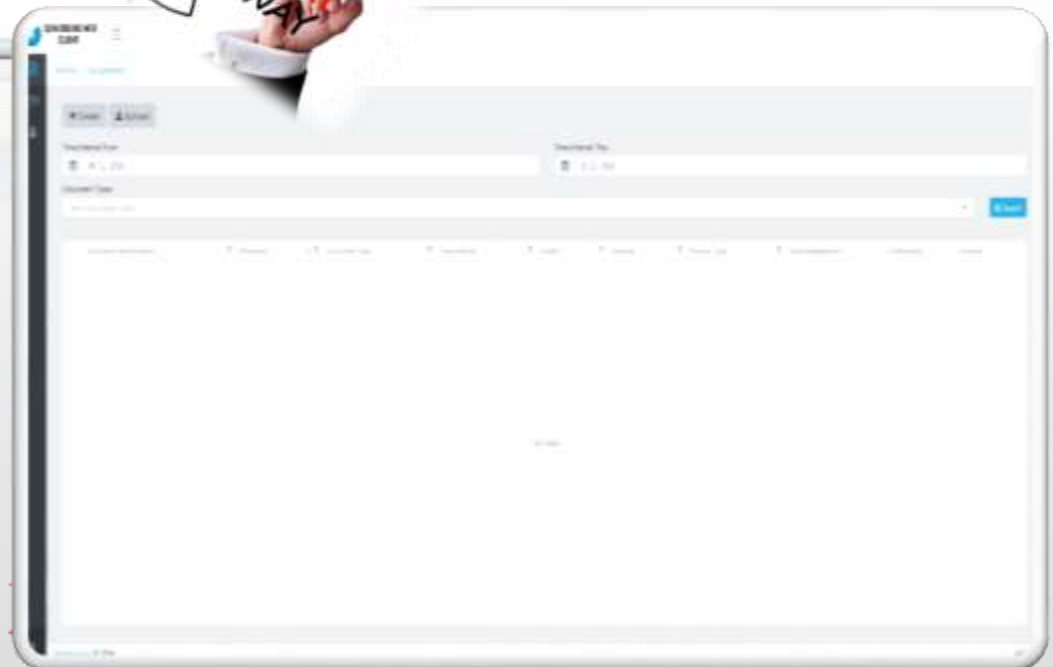
**Belgrade, November 16th, 2018**

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## Transmission from Old to New



Version 4.3



Version 4.9

Scheduling Web Client is a web based application available on:

<https://mms.ems.rs/External-Scheduling-Client>

Compatibility with browsers:

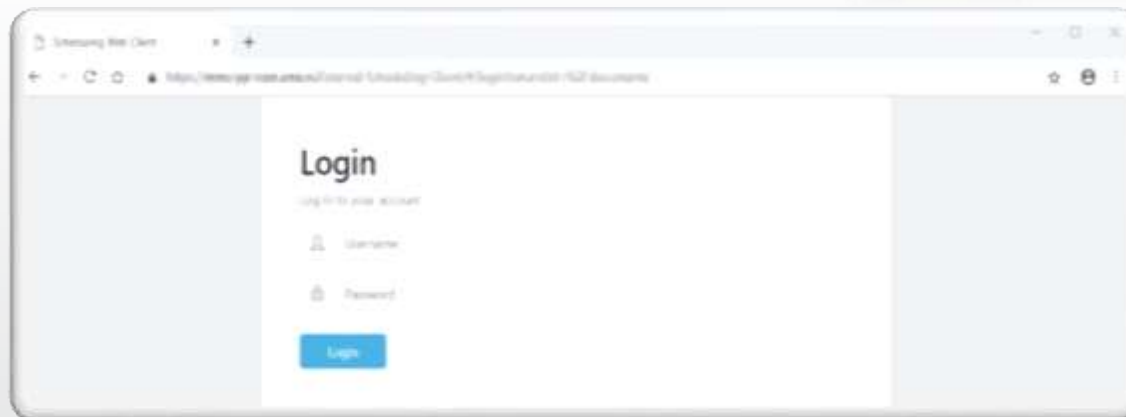
- Chrome
- Microsoft Edge
- Internet Explorer 11
- Firefox
- Opera
- Vivaldi



Current Version: **4.9.29.**

Login requirements:

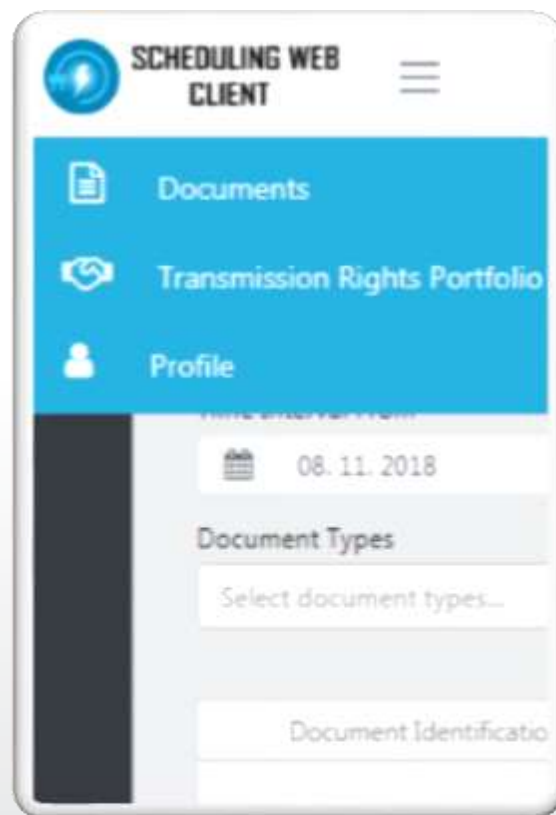
- Electronic Certificate
- User Name and Password



## Application Functions

Scheduling Web Client supports following functions:

- **Documents** – Balance Responsible Schedule related documents
- **Transmission Rights Portfolio** – the document with a complete portfolio of Market Party transmission capacity rights
- **User Profile** – page where users can review information about their profile





# Documents View

Provides Balance Responsible Schedules (BRS) and related documents (ACK, CNF, ANO) view

## \*Edit – View

Balance Responsible Schedules is editable, all other documents can only be reviewed

## \*Document Download

Balance Responsible Party can download documents as .XML using the button



Home / Documents

Document 20181004 BRS 12XFT- 155256 (ver. 2) has been updated. Please see the following **acknowledgement document** for more information.

+ Create    - Upload


Time Interval From: 01.10.2018    To: 10.10.2018

Document Type:   

Document Identification	Received	Document Type	Time Interval	Status	Receiver	Process Type	Acknowledgement	Confirmation	Answer
20181004_BRS_12XFT_155256_Q2	01.10.2018 14:05	Balance responsible schedule	01.10.2018	OK	BT SWITZERLAND (12XFT-SWITZERL)	MSL (KNOX-SERBATOSE)	OK	01.10.2018 14:05	
20181004_ACK_BT_SWITZERL_00001	01.10.2018 14:09	Acknowledgement Document	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181004_BRS_CNF_BT_SWITZERL_00001	01.10.2018 14:09	Intermediate confirmation report	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181004_BRS_AND_BT_SWITZERL_00001	01.10.2018 14:09	Annularity Report	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181004_ACK_BT_SWITZERL_00004	01.10.2018 14:09	Acknowledgement Document	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181004_ACK_BT_SWITZERL_00003	01.10.2018 13:51	Acknowledgement Document	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181003_ACK_BT_SWITZERL_00003	01.10.2018 13:49	Acknowledgement Document	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181003_ACK_BT_SWITZERL_00004	01.10.2018 13:49	Acknowledgement Document	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181004_ACK_BT_SWITZERL_00002	01.10.2018 12:14	Acknowledgement Document	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181004_ACK_BT_SWITZERL_00007	01.10.2018 12:14	Acknowledgement Document	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181003_ACK_BT_SWITZERL_00001	01.10.2018 11:48	Acknowledgement Document	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181004_BRS_AND_BT_SWITZERL_00003	01.10.2018 12:08	Annularity Report	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181004_BRS_CNF_BT_SWITZERL_00002	01.10.2018 10:15	Final confirmation report	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181003_BRS_CNF_BT_SWITZERL_00002	01.10.2018 10:12	Final confirmation report	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181003_BRS_CNF_BT_SWITZERL_00001	01.10.2018 09:52	Final confirmation report	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		
20181004_ACK_BT_SWITZERL_00001	01.10.2018 09:47	Acknowledgement Document	01.10.2018	OK	MSL (KNOX-SERBATOSE)	BT SWITZERLAND (12XFT-SWITZERL)	OK		

## Balance Responsible Schedules

- ❑ BRS is the only document to be entered manually
- ❑ Version number is automatically increased
- ❑ For every role BRP submits one schedule:
  - Trade Responsible Schedule
  - Consumption Responsible Schedule (Domain "34Y-ESS-CRP----0")
  - Production Responsible Schedule (Domain "34Y-ESS-PRP----7")

- ❑ Document entry finishes pressing the button 
- ❑ System responds with Acknowledgement document (ACK)

Balance responsible schedule: 20181115\_BRS\_11XNEAS\_115828

General Time Series

Document Identification  
20181115\_BRS\_11XNEAS\_115828

Time Interval From  
15.11.2018

Time Interval Thru  
15.11.2018

Document Type  
A01 - Balance responsible schedule

Process Type  
A17 - Schedule day

Sender  
NEAS (11XNEAS----

Receiver  
EMS (10XCS-SERBATS08)

Sender Role  
A08 - Balance responsible party

Receiver Role  
A04 - System operator

Domain

Classification  
A01 - Detail type

Cancel Create

Balance responsible schedule: 20181115\_BRS\_11XNEAS\_115828

General Intervals

+A01

1100001

Business Type  
A01 - General trade export capacity

Unit Party  
NEAS

Identification  
1100001

Version  
1

Business Type  
A01 - General trade export capacity

Product  
87286/000016 - Active power

Out Date

In Date

Out Party  
NEAS (11XNEAS----

In Party  
NEAS (11XNEAS----

Measuring Point

Capacity Contract Type

Capacity Agreement Identification

Object Aggregation  
A04 - System operator

Resolution  
60 min

Measurement Unit  
MWh - Megawatt

Cancel Create

# Acknowledgement Document

- ❑ System checks first syntax and then semantic errors
- ❑ All ACK documents are available in Document View
- ❑ While entering BRS system immediately responds with message and links to ACK document:



- ❑ General Tab and ACK reasons:

- *A01 – Message Fully Accepted*
- *A02 – Message Fully Rejected*

- ❑ Time Series tab provides more information about Time Serie rejection

Acknowledgement Document: 20181103\_ACK\_ENAC\_00002

General Time Series

Document Identification: 20181103\_ACK\_ENAC\_00002

Time Interval From: 05. 11. 2018 Time Interval Thru: 05. 11. 2018

Document Type: A17 - Acknowledgement Document

Sender: EMS (10KCS-SERBATS08) Receiver: ENAC (34X-0000000010-X)

Sender Role: A04 - System operator Receiver Role: A08 - Balance responsible party

Referenced Document Identification: 20181103\_BRS\_34X-000\_160834 Referenced Document Version: 1

Referenced Document Type: A01 - Balance responsible schedule Referenced Document Date/Time: 30. 10. 2018 16:11

Created: 30. 10. 2018 16:11 Processed: 30. 10. 2018 16:11

Reasons: A02 - Message fully rejected  
Message fully rejected

Close

# Anomaly and Confirmation Reports

**Anomaly Report** – contains time series that have been identified as being in error (mismatch) for the party in question

**Confirmation Report** – contains all the time series that have been sent in the schedule document

System generates *Intermediate Confirmation Report* and *Final Confirmation Report* (on cut-off time)

Confirmation Reason Code:

- **A06 – Schedule Accepted**
- **A07 – Schedule Partially Accepted**
- **A08 – Schedule Rejected**

**General Tab** – provides information about sender, receiver and date/time

**Time Series Tab** – provides detailed information about time series in error

The image displays two screenshots of a software interface for generating reports. The top screenshot is titled 'Anomaly Report: 20181114\_BRS-ANO\_NEAS\_00012'. It shows a 'General' tab with the following fields: Document Identification (20181114\_BRS-ANO\_NEAS\_00012), Time Interval From (14.11.2018), Document Type (A16 - Anomaly Report), Sender (EMT (EBCS-SERBATSOM)), Sender Role (A04 - System operator), Domain (RS (EBCS-SERBATSOM)), Created (13.11.2018 13:00), Document Version (0), Time Interval To (14.11.2018), Process Type ( ), Receiver (NEAS (LEINWAG- ) (Q)), Receiver Role (A01 - Trade responsible party), Classification ( ), and Processed (13.11.2018 13:00). The bottom screenshot is titled 'Final confirmation report: 20181114\_BRS-CNF\_NEAS\_00001'. It shows a 'General' tab with the following fields: Document Identification (20181114\_BRS-CNF\_NEAS\_00001), Time Interval From (14.11.2018), Document Type (A08 - Final confirmation report), Sender (EMT (EBCS-SERBATSOM)), Sender Role (A04 - System operator), Domain (RS (EBCS-SERBATSOM)), Created (13.11.2018 13:00), Document Version (0), Time Interval To (14.11.2018), Process Type (A17 - Schedule day), Receiver (NEAS (LEINWAG- ) (Q)), Receiver Role (A08 - Balance responsible party), Referenced Document Identification (SCH (EBCS-SERBATSOM\_20181114)), Referenced Document Type (A01 - Balance responsible schedule), Referenced Document Version ( ), Referenced Document Date/Time (13.11.2018 13:00), Classification ( ), and Processed (13.11.2018 13:00). Both screenshots have a 'Close' button in the bottom right corner.

# Transmission Rights Portfolio

- Transmission Rights Portfolio TRP informs Capacity Trader about the allocated capacity rights
- TRP is created upon user request
- Each Market Party can receive *only their own* allocated Capacity Rights
- Capacities owned from cross-border counter party *are not displayed*

Transmission rights portfolio: 20181114\_TRP\_NEAS\_NHURK00DLKLPV1

General Time Series

Document Identification: 20181114\_TRP\_NEAS\_NHURK00DLKLPV1

Time Interval Type: 18.11.2018

Document Type: A02 - Transmission rights portfolio

Sender: EMS (10RCS-SERBATS0V)

Sender Role: A07 - Transmission capacity allocator

Domain: BS (10RCS-SERBATS0V)

Created: 14.11.2018 13:34

Document Version: 1

Time Interval: 14.11.2018

Process Type:

Receiver: NEAS (11XNEAS-Q)

Receiver Role: A29 - Capacity Trader

Classification:

Processed: 14.11.2018 13:34

Close

---

Transmission rights portfolio: 20181114\_TRP\_NEAS\_NHURK00DLKLPV1

General Time Series

+ Add

TS00001

Business Type: A34 - Capacity rights

Out Area: HU

In Area: ES

Rights Holder: AMM

CCX: A02 - Daily

EM: 8E\_CVHRC\_A01\_11XNEAS-Q\_141118

TS00002

Business Type: A34 - Capacity rights

Out Area: ES

In Area: HU

Rights Holder: NEAS

CCX: A02 - Daily

EM: 8E\_CVHRC\_A01\_11XNEAS-Q\_141118

General Intervals

Identification: TS00001

Version:

Business Type: A34 - Capacity rights

Product:

Out Area: HU (10RCS-MAWR-Q)

In Area: ES (10RCS-SERBATS0V)

Out Party:

In Party:

Rights Holder: NEAS (11XNEAS-Q)

Capacity Contract Type: A02 - Daily

Capacity Agreement Identification: 8E\_CVHRC\_A01\_11XNEAS-Q\_141118

Object Aggregation:

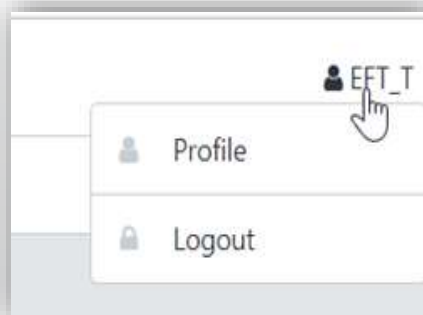
Resolution: 60 min

Measurement Unit: MAWR - megawatt

Close

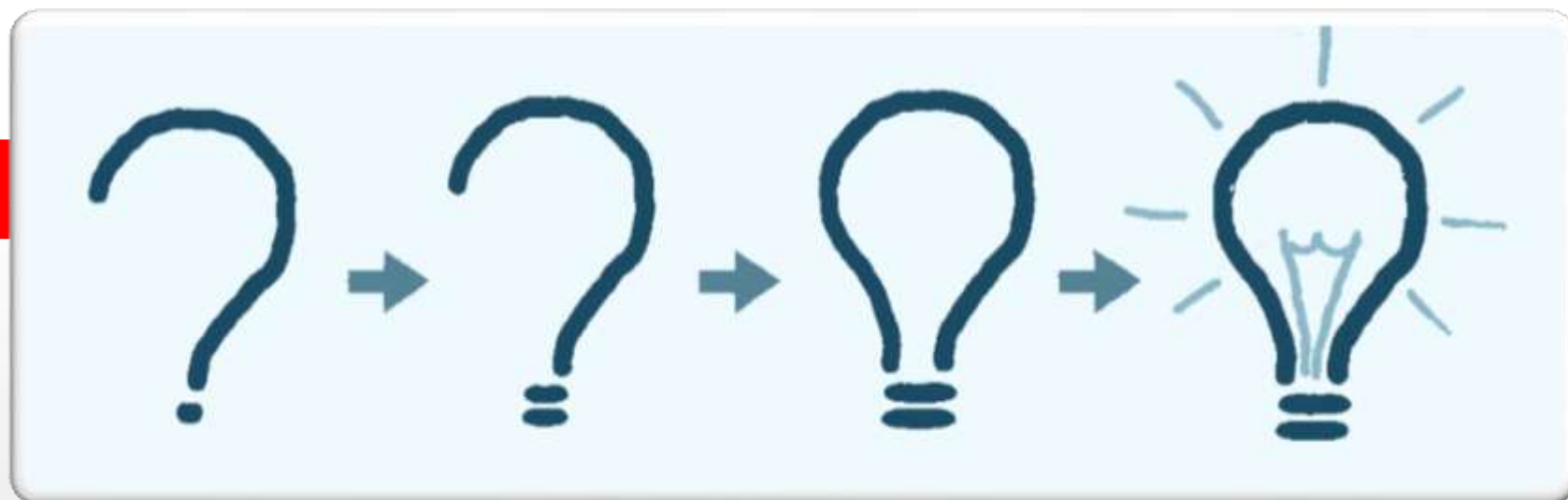
## User Profile and Logout options

- ❑ Page where Users can review information about their profile:
  - Username
  - Display Name
  - Last password change time
  - Password expiration time
- ❑ Change Password is also available for users



Logout options are available in the upper right corner

# Questions?



**DEAR COLLEAGUES**



**THANK YOU FOR YOUR ATTENTION. YOU  
MAY APPLAUSE NOW**



JOINT STOCK COMPANY  
ELEKTROMREŽA SRBIJE