

# NEW MARKET MANAGEMENT SYSTEM



## SCHEDULING MODULE

# Market Management System

- ▶ Novita's Market Management System consists of 3 modules:
  - ▶ Scheduling System (ESS)
  - ▶ Balancing System
  - ▶ Settlement System

## Balance Responsible Schedules

- ▶ For every role Balance Responsible Party submits one schedule:
  - ▶ Trade Responsible Party – Trade Responsible Schedule
  - ▶ Consumption Responsible Party – Consumption Responsible Schedule
  - ▶ Production Responsible Party – Production Responsible Schedule

## Schedule Message

- ▶ Balance Responsible Party can submit only one Schedule Message per role per day.
- ▶ System will accept Schedule Message with global position not in balance.
- ▶ Schedule Message can be manually created in Scheduling Web Client application, imported as XML into Scheduling Web Client application or sent via authorized e-mail addresses.

# Nomination Gates in Day-Ahead Process 1

- ▶ Balance Responsible Parties will be able to submit their Balance Responsible Schedules 7 days ahead but Scheduling System will check for syntax and semantic errors only.
- ▶ Checking of the Capacity Contracts will be done only after Rights Documents Gate closure.
- ▶ Time of Rights Documents Gate closure vary from border to border, but after 16:00h CET D-2 all Rights Document Gate for day D will be closed.
- ▶ After Rights Documents Gate closure Balance Responsible Parties will receive Anomaly concerning missing or exceeded Capacity Contract.

## Nomination Gates in Day-Ahead Process 2

- ▶ Nominations of long-term exchanges on borders with Joint auctions shall be sent before 08:00 CET in day D-1 (trading day) for day D (delivery day).
- ▶ Nominations of long-term exchanges on borders with Split auctions shall be sent before 14:30 CET in day D-1 (trading day) for day D (delivery day).
- ▶ Nominations of short-term cross-border exchanges shall be sent before 14:30 CET in day D-1 (trading day) for day D (delivery day).

## Nomination Gates in Day-Ahead Process 3

- ▶ Nominations of internal transaction, Consumption Responsible Schedules and Production Responsible Schedule shall be sent before 14:30 CET in day D-1 (trading day) for day D (delivery day).
- ▶ Checking of the internal mismatch and imbalance will be done only on predefined Internal Matching Gates.

# Nomination Gates in Intraday Process 1

Borders working in sessions:

- ▶ Balance Responsible Parties will be able to submit their Balance Responsible Schedules **from 18:00 CET in D-1 for D, but no later than 90 minutes** before first hour of the session.
- ▶ Checking of the Capacity Contracts will be done after Rights Documents Gate closure for each session.
- ▶ Time of Rights Documents Gate closure is currently set to 140 minutes before first hour of the session (this can be a subject of change for each border separately).
- ▶ After Rights Documents Gate closure, Balance Responsible Parties will receive Anomaly concerning missing or exceeded Capacity Contract.



## Nomination Gates in Intraday Process 2

Borders working in flowing blocks:

- ▶ Balance Responsible Parties will be able to submit their Balance Responsible Schedules **from 18:00 CET in D-1 for D, but no later than 60 minutes** before first hour with change.
- ▶ Checking of the Capacity Contracts will be done immediately while submitting Balance Responsible Schedules.

## Nomination Gates in Intraday Process 3

- ▶ Balance Responsible Parties will be able to submit their internal transaction, Consumption Responsible Schedules and Production Responsible Schedule **from 18:00 CET in D-1 for D, but no later then 60 minutes** before first hour with change.
- ▶ Checking of the internal mismatch and imbalance will be done only on predefined Internal Matching Gates.

# Right Status Information

The image shows two screenshots of a software interface for an Acknowledgement Document. The top screenshot displays the 'General' tab with various fields for document identification, time intervals, sender/receiver information, and reasons. The 'Reasons' field is highlighted with a red box, showing two entries: 'A01 - Message fully accepted' and 'A03 - Message contains errors at the time series level'. The bottom screenshot shows the 'Time Series (1)' tab with a table of time series data. The first row is highlighted with a red box, showing 'TS00001 (1)' with the reason 'A75 - Right status information' and the description 'One or more of the expected rights documents have not been received yet.'

**Acknowledgement Document - EMS - 20170310\_ACK\_EMS\_00004 - 0**

General | Time Series (1) | XML

Identification: 20170310\_ACK\_EMS\_00004

Time interval from: 2017-03-10 Time interval thru: 2017-03-10

Document type: A17 - Acknowledgement Document

Sender: EMS (10XCS-SERBIATSO8) Receiver: EMS (10XCS-SERBIATSO8)

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

Receiving document identification: 20170310\_BRS\_EMS\_101252 Receiving document version: 1

Receiving document type: A01 - Balance responsible schedule Date time receiving document: 2017-03-08 10:14:53 AM

Receiving payload name:

Created: 2017-03-08 10:14:53 AM Processed: 2017-03-08 10:14:53 AM

Reasons:

- A01 - Message fully accepted  
Message fully accepted
- A03 - Message contains errors at the time series level  
Message contains errors at the time series level

Open receiving document Open receiving payload Open internal request

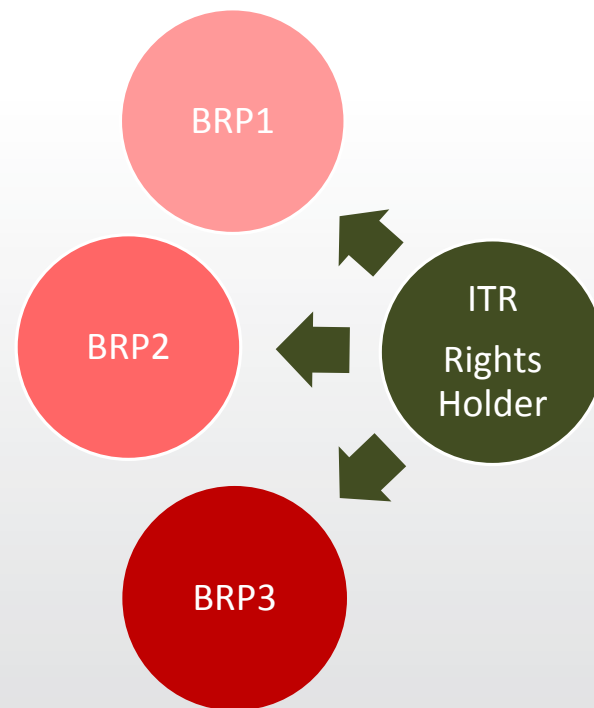
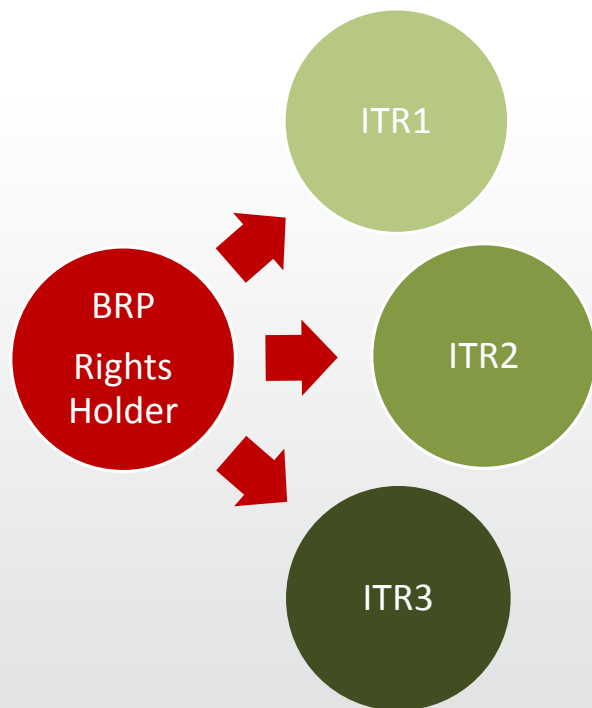
**Acknowledgement Document - EMS - 20170310\_ACK\_EMS\_00004 - 0**

General | Time Series (1) | XML

Time Series Identification	Reasons
TS00001 (1)	A75 - Right status information One or more of the expected rights documents have not been received yet.

## Cross-border partners

- ▶ Cross-border partners will be **no logner necessary**. Rights Holder can nominate exchange with any Registered Participant in neighbouring Control Area (M:N model).



# ENTSO-E Scheduling System IG Version

\*Current

```
<?xml version="1.0" encoding="UTF-8"?>  
<?xml-stylesheet type="text/xsl" href="schedule-xsl.xsl"?>  
<ScheduleMessage DtdVersion="2" DtdRelease="3">
```



\*Future

```
<?xml version="1.0" encoding="utf-8"?>  
<ScheduleMessage DtdVersion="3" DtdRelease="3">
```

## Message Identification, Type and Version

- ▶ Schedule Message Identification is arbitrary. Maximum length is 35 signs. Only alphanumeric signs, hyphen (-) and underscore (\_) are allowed. Note: Blanco is not allowed.
- ▶ Schedule Message Identification for adequate role has to be unique for every day.
- ▶ Message Type is always A01 – Balance Responsible Schedule.
- ▶ Message Version has to be greater than or equal to maximum Time Series Version in Schedule.
- ▶ When Schedule Message is being sent again, Message Version must be increased.

\*Current

A01 – Day ahead  
A02 – Intra day



\*Future

A17 – Schedule day

# Sender Role

\*Current

A01 – Trade Responsible Party  
A02 – Consumption Responsible Party  
A06 – Production Responsible Party



\*Future

A01 – Trade Responsible Party  
or  
A08 – Balance Responsible Party



## Time Series Identification and Version

- ▶ Time Series Identification is arbitrary. Maximum length is 35 signs. Only alphanumeric signs, hyphen (-) and underscore (\_) are allowed. Note: Blank is not allowed.
- ▶ Time Series Identification has to be unique within the Schedule Message.
- ▶ Time Series Version has to be lower than or equal to Schedule Message Version.
- ▶ When values in Time Series are modified, Time Series Version must be increased, as well as the Message Version.
- ▶ Version of Confirmed Time Series cannot be changed.

- ▶ New attribute is being introduced for nomination of Production Responsible Schedule and Consumption Responsible Schedule – Domain.
- ▶ Domain should be placed after „ScheduleTimeInterval“ and before „ScheduleTimeSeries“
- ▶ Domain EIC for Production Responsible Schedule: **34Y-ESS-PRP-----7**
- ▶ Domain EIC for Consumption Responsible Schedule: **34Y-ESS-CRP-----0**
- ▶ `<Domain v="34Y-ESS-CRP-----0" codingScheme="A01"/>`

## Changes in external trade TimeSeries

### ► Object Aggregation:

A02 – Metering point



A04 – Agreement Identification

- Attribute Metering Point Identification shall not be used anymore for external trade.

## Capacity Contract

- ▶ Capacity Contract Type and Capacity Agreement Identification rules will remain the same.
- ▶ Right Holder will be Market Participant who obtain Capacity in an Auction.
- ▶ Right Holder must be either IN Party or OUT Party in external trade.
- ▶ Balance Responsible Parties can see only their Capacity Contracts.

## External Matching in Day-Ahead Process

- ▶ Matching process on borders will be carried through Long-term and Short-term Matching cycles every day for following day.
- ▶ During Matching cycles, only Balance Responsible Party with external mismatch will be able to submit new version of Schedule Message with modification on concerning border.
- ▶ Once confirmed Time Series cannot be changed.
- ▶ Time Series Confirmation for external transactions will be created for every border separately after successful matching.
- ▶ In case of long-term mismatch on borders with Joint auctions Cut-off will be performed at 08:30 CET D-1 for D.
- ▶ In case of short-term mismatch or long-term mismatch on borders with Split auctions, Cut-off will be performed at 15:30 CET D-1 for D.

## Internal Matching in Day-Ahead Process

- ▶ First Internal Matching Gate will be at 12:00 CET in D-1 for D.
- ▶ After receiving first Anomaly, next one will be initiated after every change of internal mismatch during next Internal Matching Gate.
- ▶ Cut-off for internal transactions is at 15:30 CET D-1 for D.
- ▶ Time Series Final Confirmation for internal transactions will be created at 15:30 CET.

## Power Exchange Matching in Day-Ahead Process

- ▶ In case of mismatch between internal trade nominated by BRP and by Power Exchange, system will impose values nominated by Power Exchange (SEEPEX).
- ▶ Cut-off will be performed at Internal Gate Closure (14:30 CET in D-1 for D).
- ▶ Time Series Final Confirmation for internal transactions with Power Exchange will be created at Cut-off Gate.
- ▶ Confirmed Time Series with Power Exchange cannot be changed.

# Matching process in Intraday Process 1

- ▶ Matching process will be carried through Matching cycles.
- ▶ For borders working in flowing blocks it is currently planned three Correction Matching cycles per each hour and one Cut-off Matching cycle. In case of mismatch, cut-off will be performed 45 minutes before first hour with change.
- ▶ For borders working in sessions it is currently planned three Correction Matching cycles per each session and one Cut-off Matching cycle. In case of mismatch, cut-off will be performed 45 minutes before the first hour of session.
- ▶ During Correction Matching Cycles, only Balance Responsible Party with external mismatch will be able to submit new version of Schedule Message with modification on concerning border.



## Matching process in Intraday Process 2

- ▶ Once confirmed Time Series with external nominations cannot be changed.
- ▶ Time Series Confirmation will be created for every border separately after successful matching within Matching cycle.

## Internal Matching in Intraday Process

- ▶ It is currently planned three Internal Matching cycles per each hour.
- ▶ After receiving first Anomaly, next one will be initiated after every change of internal mismatch during next Internal Matching Gate.

## Next steps

- ▶ We would like to invite you kindly to participate in live testing of the new Scheduling system.
- ▶ In order to be able to perform tests, you should send us your predefined e-mail addresses for which we will authorize you to submit Schedule Messages and receive notification from the system.
- ▶ We will create for you User Account and Password in order that you can access Scheduling Web Client application.
- ▶ We will send you notice of starting date for testing and we will also provide you with web-link and User Manual for Scheduling Web Client application.

Questions?

Thank you for your attention!