

# INTRADAY CAPACITY ALLOCATION AND NOMINATION PROCEDURE

## Trader Guide

### **Annex 2:**

Intraday Capacity Allocation and Nomination Procedure - The Trader Guide

to the **Agreement**

on intraday cross-border transmission capacity allocation and nomination

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# 1. CONTENTS

1.	Contents.....	2
2.	Introduction .....	3
2.1.	Purpose of the Document .....	3
2.2.	Definitions and Abbreviations .....	3
2.3.	Referenced Documents .....	5
3.	Intraday Process Description .....	6
3.1.	Intraday Concept.....	6
3.2.	Intraday Time Intervals.....	7
3.2.1.	1-hour session model.....	7
3.2.2.	4-hour session model.....	10
3.3.	Intraday Time Line .....	11
3.3.1.	1-hour session model.....	11
3.3.2.	4-hour session model.....	13
3.4.	Intraday Business Processes.....	14
3.4.1.	Intraday OC Publishing .....	14
3.4.2.	Bids Submitting for Intraday Session .....	15
3.4.3.	Publishing of Intraday Allocation Results and Capacity Rights .....	16
3.4.3.1.	Allocation Results.....	17
3.4.3.2.	Capacity Rights for Rights Holder .....	17
3.4.4.	Intraday Nominations Entering .....	18
3.4.5.	Confirmation of Final Nominations.....	19
3.4.6.	Time out.....	19
4.	Intraday Evaluation Algorithm .....	20
5.	External Interfaces .....	22
5.1.	ENTSO-E ECAN .....	22
5.1.1.	Capacity Document – OC.....	22
5.1.1.1.	Definitions .....	22
5.1.1.2.	Example .....	22
5.1.2.	Bid Document .....	23
5.1.2.1.	Definitions .....	23
5.1.2.2.	Example .....	24
5.1.3.	Allocation Result Document .....	24
5.1.3.1.	Definitions .....	24
5.1.3.2.	Example .....	25
5.1.4.	Rights Document .....	26
5.1.4.1.	Definitions .....	26
5.1.4.2.	CAI Naming Convention.....	27
5.1.4.3.	Example .....	28
5.2.	Domain .....	29
6.	Actual session model configuration .....	30

## 2. INTRODUCTION

### 2.1. Purpose of the Document

The User's Guide for Intraday provides description of capacity allocation and nomination procedure and IT system's requirements to be implemented by electricity trading companies.

The main purpose of intraday concept is adaptation and harmonization of intraday market rules where Transmission Capacity Allocator allocates offered capacity (OC) according to the Trader Guide in order to comply with CEE scheduling concept (*The User's Guide to Scheduling in CEE*). The intraday processes have to offer the same flexibility to market and use the same rules and data formats as for long-term and daily time-frames in order to simplify the situation for market participants.

### 2.2. Definitions and Abbreviations

Abbreviation	Name	Description
AAC	Already Allocated Capacity	Total amount of allocated transmission rights, whether they are capacity or exchange programmes depending on the allocation method.
ACK	Acknowledgement document	
ANO	Anomaly report	
ATC	Available transmission capacity	Part of NTC that remains available after each phase of the allocation procedure for further commercial activity. ATC is given by the following equation: $ATC = NTC - AAC$
CAI	Contract Agreement Identification	The unique Identification of an agreement for the allocation of capacity to a party.
CCT	Capacity contract type	The contract type defines the conditions under which the capacity is allocated and handled.
	CEE Scheduling	CEE Scheduling defined in document <i>The User's Guide to Scheduling in CEE Region</i> .
CNF	Confirmation report	
COT	Cut off time	Specified time providing a deadline for TSOs' final matching of mismatching schedules by market parties by GCT.

Abbreviation	Name	Description
FCFS	First come first served	What comes in first is handled first. What comes in next waits until the first is finished.
GCT	Gate closure time	Specified time providing a deadline for submission of schedules by market parties.
ID	Intraday	Additional market mechanism on borders as specified in Trader Guide which allows BRP's to optimize their positions and to react to unexpected events during the day of delivery.
ITR	Interconnection Trade Responsible	<p>A person and/or with a balancing contract for one or more control areas. It is identified with a unique EIC and is fully financially responsible for imbalance.</p> <p>ITRs can participate in allocation procedure only if they have grid access at least to one of participating TSOs. The access is limited to those borders of the TSOs to which the party has grid access.</p>
OC	Offered capacity	Part of the ATC. This capacity will be offered to the market.
	Rights Holder	ITR that has obtained capacity in the capacity allocation procedure.
TCA	Transmission Capacity Allocator	Allocation Office for ID (CEPS).
TCA-IT System	Information System of TCA	Information System of TCA.
TSO	Transmission System Operator	TSO involved in ID (CEPS, SEPS, 50Hertz, TENNET, APG, PSE, MAVIR)
UIOLI	Use It or Lose It	Previously allocated Capacity which has not been nominated during the scheduling phase and which is not available to its owner any more.
WebGUI	Webbased Graphical User Interface	

## 2.3. Referenced Documents

The referenced document used within this Implementation Guide is *The User's Guide to Scheduling in CEE Region, Trader's Manual Version 2.1.0.0*.

The applied communication standards are:

1. ENTSO-E ESS 3.3  
ENTSO-E Scheduling System (ESS) Implementation Guide 3.3
2. ENTSO-E ECAN 4.0  
ENTSO-E Capacity Allocation and Nomination System (ECAN) Implementation Guide 4.0
3. ENTSO-E Code list 8.0  
ENTSO-E General Code List for Data Interchange 8.0
4. ENTSO-E Acknowledgement 5.0  
Implementation guide for the ESS (Acknowledgement Document)
5. EIC manual  
The Energy Identification Coding Scheme EIC

## 3. INTRADAY PROCESS DESCRIPTION

### 3.1. Intraday Concept

The intra-day cross-border trade is an additional market mechanism which allows ITRs to optimize their positions and to react to unexpected events occurred during the day of delivery. The basic principles are listed below:

1. CEPS acts as Allocation Office (Transmission Capacity Allocator) for borders:
    - CEPS–APG
    - CEPS–SEPS
    - CEPS–TENNET
    - CEPS–50Hertz
    - PSE–50Hertz
    - PSE–CEPS
    - PSE–SEPS
    - MAVIR–SEPS
    - MAVIR–APG
  2. The ID market is held seven days a week without any regards to any holidays within the related areas.
  3. The allocation is performed in multiple sessions for hourly products inside the day D. Following two different session models can be used:
    - Division of the day into six cycles (sessions) of 4-hour time intervals (4-hour session model).
    - Division of the day into twenty-four cycles (sessions) of 1-hour time intervals (or twenty-three / twenty-five 1-hour time intervals in case of daylight saving time changing); (1-hour session model).
- These two session models can be used independently on individual borders.
4. Only ITRs are allowed to take part in the ID capacity allocation procedure. The TCA will validate EIC code and verify that the company is ITR according to definition, see [Chapter 2.2. Definitions and Abbreviations](#).
  5. The procedures for ID allocation and nomination will be separated into two phases. The ID capacity allocation process will be under responsibility of TCA who distributes the resulted Capacity Rights to involved TSOs. The ITRs (Rights Holders and their counterparts) will be obliged to submit ID cross-border schedules explicitly to their domestic TSO. However, the ID market will be organized as “rights-with-obligation”, i. e. the capacity acquired in the ID trading

comes with the obligation to use the capacity. The ITR is obliged to nominate all capacity acquired in the ID allocation process. The compliance of the obligation rule is handled manually. The scheduling systems use the capacity rights in accordance with the D – 1 procedure.

6. The evaluation algorithm consists of two steps. In the first step, the bids are assessed with respect to the current grid condition using flow-based mechanism (only for CEPS borders). In the second step, the preliminary accepted bids are compared with capacity limits (OC) on technical / commercial borders and bids exceeding such limitations are rejected. Bids are processed based on delivery time, i. e. FCFS approach is used. One mixed list is created from bids of ITRs for all concerned borders. The evaluation is performed continuously – each bid is evaluated immediately after receiving by the TCA.
7. The capacities are allocated free of charge.
8. The D – 1 harmonized CEE scheduling concept agreed among 8 CEE TSOs will be applied also for intra-day nominations (M : N, CAIs, CCTs, pro-rata curtailment of not yet matched nominations exceeding capacity rights, lower-value principle after COT, etc.). Cross nominations (M : N) are allowed. Nominations matched in previous intraday matching cycles are not subject to pro rata curtailment.

## 3.2. Intraday Time Intervals

### 3.2.1. 1-hour session model

In the course of a business day, the ID capacity allocation is performed in multiple sessions for individual hours inside the day D. The nomination process is applied for the same time intervals defined.

The initial configuration: 24 time intervals, standard day with 24 hours (CET):

ID Time Interval	Order Number of Hours	Time Interval (CET)
Time Interval 1.	1.	(00:00:00–01:00:00)
Time Interval 2.	2.	(01:00:00–02:00:00)
Time Interval 3.	3.	(02:00:00–03:00:00)
Time Interval 4.	4.	(03:00:00–04:00:00)
Time Interval 5.	5.	(04:00:00–05:00:00)
Time Interval 6.	6.	(05:00:00–06:00:00)
Time Interval 7.	7.	(06:00:00–07:00:00)
Time Interval 8.	8.	(07:00:00–08:00:00)
Time Interval 9.	9.	(08:00:00–09:00:00)
Time Interval 10.	10.	(09:00:00–10:00:00)

Time Interval 11.	11.	(10:00:00–11:00:00)
Time Interval 12.	12.	(11:00:00–12:00:00)
Time Interval 13.	13.	(12:00:00–13:00:00)
Time Interval 14.	14.	(13:00:00–14:00:00)
Time Interval 15.	15.	(14:00:00–15:00:00)
Time Interval 16.	16.	(15:00:00–16:00:00)
Time Interval 17.	17.	(16:00:00–17:00:00)
Time Interval 18.	18.	(17:00:00–18:00:00)
Time Interval 19.	19.	(18:00:00–19:00:00)
Time Interval 20.	20.	(19:00:00–20:00:00)
Time Interval 21.	21.	(20:00:00–21:00:00)
Time Interval 22.	22.	(21:00:00–22:00:00)
Time Interval 23.	23.	(22:00:00–23:00:00)
Time Interval 24.	24.	(23:00:00–00:00:00)

The initial configuration: 23 time intervals, daylight saving time day with 23 hours (CEST):

ID Time Interval	Order Number of Hours	Time Interval (CET)
Time Interval 1.	1.	(00:00:00–01:00:00)
Time Interval 2.	2.	(01:00:00–02:00:00)
Time Interval 3.	3.	(03:00:00–04:00:00)
Time Interval 4.	4.	(04:00:00–05:00:00)
Time Interval 5.	5.	(05:00:00–06:00:00)
Time Interval 6.	6.	(06:00:00–07:00:00)
Time Interval 7.	7.	(07:00:00–08:00:00)
Time Interval 8.	8.	(08:00:00–09:00:00)
Time Interval 9.	9.	(09:00:00–10:00:00)
Time Interval 10.	10.	(10:00:00–11:00:00)
Time Interval 11.	11.	(11:00:00–12:00:00)
Time Interval 12.	12.	(12:00:00–13:00:00)
Time Interval 13.	13.	(13:00:00–14:00:00)



Time Interval 14.	14.	(14:00:00–15:00:00)
Time Interval 15.	15.	(15:00:00–16:00:00)
Time Interval 16.	16.	(16:00:00–17:00:00)
Time Interval 17.	17.	(17:00:00–18:00:00)
Time Interval 18.	18.	(18:00:00–19:00:00)
Time Interval 19.	19.	(19:00:00–20:00:00)
Time Interval 20.	20.	(20:00:00–21:00:00)
Time Interval 21.	21.	(21:00:00–22:00:00)
Time Interval 22.	22.	(22:00:00–23:00:00)
Time Interval 23.	23.	(23:00:00–00:00:00)

The initial configuration: 25 time intervals, daylight saving time day with 25 hours (CEST):

ID Time Interval	Order Number of Hours	Time Interval (CET)
Time Interval 1.	1.	(00:00:00–01:00:00)
Time Interval 2.	2.	(01:00:00–02:00:00)
Time Interval 3.	3.	(02:00:00–03:00:00)
Time Interval 4.	4.	(02:00:00–03:00:00)
Time Interval 5.	5.	(03:00:00–04:00:00)
Time Interval 6.	6.	(04:00:00–05:00:00)
Time Interval 7.	7.	(05:00:00–06:00:00)
Time Interval 8.	8.	(06:00:00–07:00:00)
Time Interval 9.	9.	(07:00:00–08:00:00)
Time Interval 10.	10.	(08:00:00–09:00:00)
Time Interval 11.	11.	(09:00:00–10:00:00)
Time Interval 12.	12.	(10:00:00–11:00:00)
Time Interval 13.	13.	(11:00:00–12:00:00)
Time Interval 14.	14.	(12:00:00–13:00:00)
Time Interval 15.	15.	(13:00:00–14:00:00)
Time Interval 16.	16.	(14:00:00–15:00:00)
Time Interval 17.	17.	(15:00:00–16:00:00)

Time Interval 18.	18.	(16:00:00–17:00:00)
Time Interval 19.	19.	(17:00:00–18:00:00)
Time Interval 20.	20.	(18:00:00–19:00:00)
Time Interval 21.	21.	(19:00:00–20:00:00)
Time Interval 22.	22.	(20:00:00–21:00:00)
Time Interval 23.	23.	(21:00:00–22:00:00)
Time Interval 24.	24.	(22:00:00–23:00:00)
Time Interval 25.	25.	(23:00:00–00:00:00)

### 3.2.2. 4-hour session model

In the course of a business day, the ID capacity allocation is performed in multiple auctions for time intervals inside the day D (one auction for one continuous time-interval). The nominations process is applied for the same time intervals defined.

The initial configuration: 6 time intervals, standard day with 24 hours (CET):

ID Time Interval	Order Number of Hours	Time Interval (CET)
Time Interval 1.	1.–4.	(00:00:00–04:00:00)
Time Interval 2.	5.–8.	(04:00:00–08:00:00)
Time Interval 3.	9.–12.	(08:00:00–12:00:00)
Time Interval 4.	13.–16.	(12:00:00–16:00:00)
Time Interval 5.	17.–20.	(16:00:00–20:00:00)
Time Interval 6.	21.–24.	(20:00:00–00:00:00)

The initial configuration: 6 time intervals, daylight saving time day with 23 hours (CEST):

ID Time Interval	Order Number of Hours	Time Interval (CET)
Time Interval 1.	1.–3.	(00:00:00–04:00:00)
Time Interval 2.	4.–7.	(04:00:00–08:00:00)
Time Interval 3.	8.–11.	(08:00:00–12:00:00)
Time Interval 4.	12.–15.	(12:00:00–16:00:00)
Time Interval 5.	16.–19.	(16:00:00–20:00:00)
Time Interval 6.	20.–23.	(20:00:00–00:00:00)

The initial configuration: 6 time intervals, daylight saving time day with 25 hours (CEST):

ID Time Interval	Order Number of Hours	Time Interval (CET)
Time Interval 1.	1.–5.	(00:00:00–04:00:00)
Time Interval 2.	6.–9.	(04:00:00–08:00:00)
Time Interval 3.	10.–13.	(08:00:00–12:00:00)
Time Interval 4.	14.–17.	(12:00:00–16:00:00)
Time Interval 5.	18.–21.	(16:00:00–20:00:00)
Time Interval 6.	22.–25.	(20:00:00–00:00:00)

### 3.3. Intraday Time Line

#### 3.3.1. 1-hour session model

The time line for activities in D – 1 before the first ID session (D is day of delivery):

Process	Opening Time	Closing Time	Responsibility
Publication of preliminary ID OC		By D – 1, 16:00	TCA

The time line for one ID session is described below (H is hour of Delivery):

Process	Start Time	Closing Time	Responsibility
ID ATC update for ID session	D – 1, 16:00	H – 2:30	TSOs
Bids submitting for ID session <i>All sessions for given business day will be opened at once so it will be possible to submit bids for all sessions at the start of intraday allocation process for this business day.</i>	<b>D – 1, 18:00</b>	H – 2:30	BRPs
Sending of ID allocation results to BRP (after evaluation of each bid)	D – 1, 18:00	H – 2:30	TCA
Publishing of ID allocation results	H – 2:28		TCA
Publishing of ID final capacity rights	H – 2:25		TCA
ID nominations entering <i>All hours for given business day will be opened at once so it will possible to submit</i>	<b>D – 1, 18:00</b> Depends on local market	H – 1:30	BRPs

<i>nominations for all hours of the business day immediately after obtaining capacity rights.</i>	rules (recommended at D – 1, 18:00)		
ID matching process <sup>1 2</sup>	H – 1:30	H – 0:45	TSOs

### Maintenance Period

The maintenance period of TCA-IT system is regularly performed each Tuesday between 19:30 and 21:30. Considering that this maintenance period interferes in the time schedule of the 21<sup>st</sup> (when switching to winter time), 22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup> and 25<sup>th</sup> (for daylight saving time) sessions of Tuesday. Processes for all of these sessions will therefore be operated in a special timing mode, which is shown in the following table:

Process	Opening Time	Closing Time
Bids submitting for ID session	D – 1, 18:00	D, 17:30
Publishing of ID allocation results	D 17:32	
Publishing of ID capacity rights	D 17:35	
Sending of ID capacity rights to TSOs	D 17:35	
ID nominations entering	D – 1, 18:00	D 18:30
ID matching process ( <i>Nominations for all affected sessions will be finally matched in this one matching cycle</i> )	D 18:30	D 19:15

During the maintenance period of TCA-IT system submitting bids for all sessions of Wednesday will not be available.

<sup>1</sup> The indicated start and closing time is independent from the changes of day-light saving time.

<sup>2</sup> Nominations submitted in advance will be matched in the closest possible matching cycle

### 3.3.2. 4-hour session model

The time line for activities in D – 1 before the first ID session (D is day of delivery):

Process	Opening Time	Closing Time	Responsibility
Publication of preliminary ID OC		By D – 1, 16:00	TCA

The time line for one ID session is described below (H is the first hour of ID time interval):

Process	Start Time	Closing Time	Responsibility
Publication of final ID OC ( <i>Note: OC updates are continuously available.</i> )		H – 2:30	TCA
Bids submitting for ID session	H – 6:00	H – 2:30	ITRs
Publishing of ID allocation results	H – 2:28		TCA
Publishing of ID capacity rights	H – 2:25		TCA
ID nominations entering	According to local rules (no later than H – 2:20)	H – 1:30	ITRs
Confirmation of final nominations		By H – 0:45	TSOs

The indicated start and closing times are independent from the changes of day-light saving time.

## Maintenance Period

The maintenance period of TCA IT system is regularly performed each Tuesday between 19:30 and 21:30. Considering that this maintenance period interferes in the time schedule of the 1<sup>st</sup> session on Wednesday (0:00–4:00), the following extraordinary time schedule is applied for this affected session:

Process	Opening Time	Closing Time
Publication of final ID OC ( <i>Note: OC updates are continuously available.</i> )		H – 2:00 (22:00)
Bids submitting for ID session	H – 2:30 (21:30)	H – 2:00 (22:00)
Publishing of ID allocation results	H – 1:58 (22:02)	
Publishing of ID capacity rights	H – 1:55 (22:05)	
ID nominations entering	According to local rules but no later than H – 1:50 (22:10)	H – 1:30 (22:30) – no change
Confirmation of final nominations		By H – 0:45 (23:15) – no change

## 3.4. Intraday Business Processes

### 3.4.1. Intraday OC Publishing

The rules applied for OC publishing:

- The ID ATC is calculated as the difference between the NTC value and the Already Allocated Capacity (AAC), which is equal to total long-term and daily nominations. Capacity allocated in long-term and daily auctions but not nominated during the scheduling phase is again offered to the market (UIOLI principle is applied). The netting of the AAC values is used (100 %).
- The preliminary OC is published by D – 1 16:00. The OC can be updated by H – 2:30 and new values are continuously available to ITRs.
- The ID OC is published for the following borders:
  - Technical border for Poland defined as common limitation for commercial borders PSE–50Hertz, PSE–CEPS, PSE–SEPS.
  - Technical border Germany defined as common limitation for commercial borders PSE–50Hertz, CEPS–50Hertz, CEPS–TENNET.
  - CEPS–APG

- SEPS–PSE
- MAVIR–SEPS
- MAVIR-APG
- CEPS -SEPS
- ECAN v4r0 format is used for OC publication (Capacity Document), see Chapter 5.1.1. Capacity Document – OC.

The TCA-IT system provides the following ways of the OC retrieving:

- Available OC via web form in the WebGUI.
- Available OC following the ECAN v4r0 standard via automatic email submission.
- Available OC following the ECAN v4r0 standard via the Web Services Interface.

### **3.4.2. Bids Submitting for Intraday Session**

The rules applied for bids submitting:

- Gate opening for bids submitting is set differently for 4-hour and 1-hour session model. Gate for bids is closed at H – 2:30.
- Immediately after bid submitting formal validations are performed and the ITR is informed about processing results using Acknowledgement Document (positive or negative).
- The ID evaluation process is executed by TCA every time when new bid is submitted and ITR is informed about bid acceptance / rejection. The ECAN Allocation Result Document is used for this purpose, see the following *Chapter 3.4.3. Publishing of Intraday Allocation Results*.
- Bids sent by ITRs are indivisible in terms of power and time, i. e. any bid must be either fully accepted for all business hours within the session, or rejected in full.
- Bids are submitted only to TCA system.
- Due to the on-line bids processing, ITRs are not allowed to edit already entered bids.
- Generally, TCA may as a short term remedial action suspend an ITR from bid submission in intraday sessions in case the ITRs activities threaten or restrict the availability of the TCA IT-system for other ITRs (e.g. due to the usage of robots).
- So as to preserve the necessary constant availability of the TCA IT-System and in order to prevent its abuse, individual ITR is allowed only up to 150 sent bids for 1 session (limit). For avoidance of doubts, each sent bid even with the same bid identification will be considered within limit separately. If the ITR breaches this limit, TCA informs the respective ITR and all TSOs about the breach via e-mail no later than 12 hours after the limit has been exceeded. Following this notice, TCA has the obligation:
  - to prevent ITR immediately from access to the system until the end of next calendar day in case it is second breach of the limit during one calendar year;

- to prevent ITR immediately from access to the system until the end of next 3rd calendar day in case it is third breach of the limit during one calendar year;
- to prevent ITR immediately from access to the system until the end of next 7<sup>th</sup> calendar day in every single case the limit has been breached more than three times during one calendar year; TCA informs about individual breaches corresponding ITR and all TSOs.

For the sake of clarity, the counter of breaches for each ITR is set back to zero at the beginning of each new calendar year.

- Bids are delivered for the following borders:
  - CEPS–APG
  - CEPS–SEPS
  - CEPS–TENNET
  - CEPS–50Hertz
  - PSE–50Hertz
  - PSE–CEPS
  - PSE–SEPS
  - MAVIR–SEPS
  - MAVIR–APG
- ECAN v4r0 format is used for bids submitting (Bid Document), see [Chapter 5.1.2. Bid Document](#).

The TCA-IT system provides the following ways of bid submission:

- Manually via web form in the WebGUI
- Copy and Paste from Microsoft Excel in the WebGUI
- Upload of ECAN Bid Document through the Web Services Interface

### **3.4.3. Publishing of Intraday Allocation Results and Capacity Rights**

The ID evaluation process is executed by TCA every time when new bid is submitted by ITRs. All not yet evaluated bids are subject of the evaluation, considering the already accepted bids. The algorithm is described in [Chapter 4. Intraday Evaluation Algorithm](#).

ECAN v4r0 format is used (Allocation Results Document), see [Chapter 5.1.3. Allocation Result Document](#). Document is available for ITRs immediately after each individual evaluation.



Capacity rights and allocation results will be published in two separated types of document depending on session model:

1. Allocation Results sent to ITR after bid evaluation.
2. Capacity Right document with final capacity rights sent to ITR after publishing of results for individual sessions.

#### 3.4.3.1. Allocation Results

After bid evaluation, Allocation Results document is created and sent to the ITR.

The following rules are applied for Allocation Results document:

- The ID Capacity Rights will be sent via email to ITR immediately after bid evaluation.
- The Allocation Results document contains information about all already evaluated bids related to one session and one border (the previous sessions and other borders are not included).
- The data format ECAN Allocation Results Document will be used
- The allocation results are provided on an hourly base. The TCA-IT system provides the following ways of the allocation results retrieving:
  - a. Available allocation results via web form in the WebGUI.
  - b. Available allocation results following the ECAN standard via automatic e-mail submission.

#### 3.4.3.2. Capacity Rights for Rights Holder

After publishing of results for individual session, Capacity Right document is created and sent to the ITR.

If the bid was accepted, Capacity Right with CAI is created for the ITR.

The following rules are applied for Capacity Rights sent to ITR:

- The ID Capacity Rights document will be sent via email to the ITR immediately after publishing of results for given session, but only in case that the ITR obtained non-zero capacity in at least one hour of given session.
- The Rights Document contains only capacity rights related to one session (the previous sessions are not included). The secondary market is not supported for ID time frame.
- The Capacity Rights has to be available between H – 2:30 and H – 1:30.
- The same data format will be used as for Capacity Rights received from CAO.
- The capacity rights are provided on an hourly base after the respective session is closed. The TCA-IT system provides the following ways of the capacity rights retrieving:
  - a. Available capacity rights via web form in the WebGUI.
  - b. Available capacity rights following the ECAN standard via automatic e-mail submission.

### 3.4.4. Intraday Nominations Entering

ITR and its counterpart ITR respectively are obliged to send nominations with the CAI of the obtained capacity right to their domestic TSO.

The ID nomination rules:

- Gate closure times depend on the used session model:
  - 4-hour session model – Gate opening depends on local market rules (recommended at H – 6:00) but no later than H – 2:20. Gate for nominations is closed at H – 1:30.
  - 1-hour session model – Gate opening depends on local market rules (recommended at D – 1, 18:00) but no later than D – 1, 20:00. Gate for nominations is closed at H – 1:30.
- Assignment of CAI depends on the used session model:
  - 4-hour session model – The different CAI is assigned to Rights Holders for each ID session and border direction. An assigned CAI has to be used in nomination process. The exact nomination rules depend on local market rules.
  - 1-hour session model – The different CAI is assigned to Rights Holders for each ID session, border direction and individual bid. Therefore, the nominations are submitted separately per each ID time-interval and capacity allocated within the given bid, – i.e. up to 24 (23 / 25) nominations for 1-hour sessions in case of one bid for each session or two bids for 12 sessions. But the number of CAIs is not fixed and depends on the number of submitted bids.
- The cross-nominations (M : N) are allowed also for ID.
- The Rights Holder is obliged to use all acquired capacity. This rule is considered as fulfilled when the nomination is equal to the capacity for each hour and together it is fully matched with counterpart nomination. If the Rights Holder breaches this rule in three different business days during one calendar year, then the TSO has the right to disable the Rights Holder from ID capacity allocation for the period of 1 week, by submitting the request to the TCA. Changes become effective according to required date in the request but not earlier than next day after receiving the request. The rule shall be considered as breached when the Rights Holder does not use all of the acquired capacity at least in one hour in the session.
- Local rules can give ITRs possibility to simplify nomination process e. g. via automatic nominations but such procedure is not unified and it is the decision of each particular TSO whether and how the automatic nominations will be allowed.
- The validation of the entered nominations is performed applying the same rules as at D – 1.
- No correction cycles are defined in matching process. In the case of mismatch between domestic and neighbouring nominations, or in the case of exceeding the capacity right, the automatic measures are applied as at D – 1 after cut-off time.

- In the case of 1-hour session model it is possible to submit nominations in advance for all hours of the business day in question.

These in advance submitted nominations will be matched in the closest possible matching cycle according to following rules:

- If the result of the matching for given nomination will be Matched, such nomination will be considered as finally matched and its status will be set to Faultless. It will not be possible to modify such nomination anymore; even if the respective hour will not be closed yet.
  - If the result of the matching for given nomination will be Mismatched, such nomination will be considered as mismatched and it will be possible to modify this nomination till the respective hour will be closed for the submission of nominations (than rules for Matching at Intraday COT will be applied if needed).
  - The ITR will be informed by intermediate / final CNF about the matched nominations. The type of CNF used depends on local market rules.
  - The ITR will be informed by the Anomaly Report about the mismatched nominations.
- ESS format is used in the same way as at D – 1.

### **3.4.5. Confirmation of Final Nominations**

The ITRs will be informed by intermediate / final CNF about the matched nominations by H – 0:45. The type of CNF used depends on local market rules. Anomaly Reports are not provoked by the ID procedure. ESS format is used for CNF (Confirmation Report).

### **3.4.6. Time out**

If matching result is not available till H – 0:45, all not yet matched intraday nominations are set to zero independently by both corresponding TSOs and consequently set as faultless.

## 4. INTRADAY EVALUATION ALGORITHM

**Algorithm Input:** The set of ID bids for one ID session entered for all involved control areas (CEPS, SEPS, 50Hertz, TENNET, APG, MAVIR and PSE).

**Algorithm Output:** Accepted / rejected bids. Bids sent by ITRs are indivisible in terms of power and time, i. e. any bid must be either fully accepted for all business hours within the session, or rejected in full.

### Algorithm Description:

#### 1. Flow-based Evaluation (applied on CEPS commercial borders only):

- a. Firstly, the common merit order list of the not yet evaluated bids is created based on First-Come-First-Served (FCFS) principle. Bids are evaluated one by one in the order in which they have been received by the system. The bids for all involved borders are included in this list. The flow-based evaluation is applied only on commercial borders of Control Area ČEPS. Therefore bids submitted for PSE–50Hertz, PSE–SEPS, APG–MAVIR or MAVIR–SEPS border are evaluated only using NTC-based evaluation (step 2 of this algorithm is performed).
- b. Once merit order is prepared, the flow-based evaluation process is applied. Each transaction is assessed in terms of its effects on each border up to the remaining available capacity. The available capacities are determined on the basis of specified capacity limit values on borders (using the PTDF matrix) and DACF forecast models. Each bid is distributed to individual physical borders using the calculated distribution coefficients (PTDFs). The effect of individual transactions is thus simulated step by step, and the resulting model flows are added to the flows in the predictive DACF models created in  $D - 1$ . The computing system continuously compares physical flows on borders with forecasts obtained from the DACF model. If the deviation of these values exceeds a specified insensitivity threshold, the system cancels all bids concerning the hours for which the threshold was exceeded. Netting level applied within the allocation algorithm will be configurable (considering the risk of the non-fulfilling of the rights-with-obligation rule). The initial value will be 0 %.

2. **NTC-based Evaluation:** The preliminary accepted bids are compared with capacity limits (ATC) on technical / commercial borders and bids exceeding such limitations are rejected. After accepting of new bid the actual remaining ATC is recomputed for considering of all already accepted bids. So for comparison of the current bid the actual remaining ATC values are used.

Specific features of the ID bidding and evaluation process caused by on-line processing:

- The algorithm is launched after each ID bid submission and ITR is informed about bid acceptance / rejection. Such result is final and cannot be changed later. Only newly submitted bids are considered for evaluation process.
- Modification of processed bids could have impact on the remaining already accepted / rejected bids and impose some changes. From this reason ITR is not allowed to modify



already submitted bids; only new bids can be delivered. In order to change the current position, ITR can submit bids in opposite border direction.

## 5. EXTERNAL INTERFACES

### 5.1. ENTSO-E ECAN

#### 5.1.1. Capacity Document – OC

##### 5.1.1.1. Definitions

The document is compliant with ECAN v4r0.

Capacity Document used for OC:

- Document Type: A31
- Process Type: A15
- Sender Identification: EIC of Auction Office (CEPS)
- Sender Role: A07 (Transmission Capacity Allocator)
- Receiver Identification: Party code
- Receiver Role: A29 (Capacity Trader)
- Capacity Time Interval: Business day
- Business Type: A31 (OC)
- In Area: The (control) area where the energy is to be put (Note: Market area/virtual area should be defined and used for Germany; the Technical Border with Germany will be defined as couple of market area Germany and control area CEPS.)
- Out Area: The (control) area where the energy is coming from
- The resolution is 60 Minutes

##### 5.1.1.2. Example

An example of Capacity Document with Offered Capacity for ID session:

```
<?xml version="1.0" encoding="UTF-8"?>
<CapacityDocument DtdVersion="4" DtdRelease="0">
  <DocumentIdentification v="A31_CZAU-I-15052010-00017"/>
  <DocumentVersion v="1"/>
  <DocumentType v="A31"/>
  <ProcessType v="A15"/>
  <SenderIdentification v="10XCZ-CEPS-GRIDE" codingScheme="A01"/>
  <SenderRole v="A07"/>
  <ReceiverIdentification v="11XUNI-CZ-----5" codingScheme="A01"/>
  <ReceiverRole v="A29"/>
  <CreationDateTime v="2010-05-14T22:39:59Z" />
  <CapacityTimeInterval v="2010-05-15T02:00Z/2010-05-15T06:00Z"/>
  <Domain v="10YCZ-CEPS-----N" codingScheme="A01"/>
  <CapacityTimeSeries>
    <TimeSeriesIdentification v="10049"/>
    <BusinessType v="A31"/>
  </CapacityTimeSeries>
</CapacityDocument>
```

```
<Product v="8716867000016"/>
<InArea v="10YCZ-CEPS-----N" codingScheme="A01"/>
<OutArea v="10YAT-APG-----L" codingScheme="A01"/>
<MeasurementUnit v="MAW"/>
<AuctionIdentification v="CZAU-I-15052010-00308"/>
<Period>
  <TimeInterval v="2010-05-15T02:00Z/2010-05-15T06:00Z"/>
  <Resolution v="PT60M"/>
  <Interval>
    <Pos v="1"/>
    <Qty v="150"/>
  </Interval>
  <Interval>
    <Pos v="2"/>
    <Qty v="150"/>
  </Interval>
  <Interval>
    <Pos v="3"/>
    <Qty v="200"/>
  </Interval>
  <Interval>
    <Pos v="4"/>
    <Qty v="200"/>
  </Interval>
</Period>
</CapacityTimeSeries>
</CapacityDocument>
```

## 5.1.2. Bid Document

### 5.1.2.1. Definitions

The document is compliant with ECAN v4r0.

Bid Document used for ID bids:

- Document Type: A24
- Process Type: A15
- Sender Identification: Party code
- Sender Role: A29
- Receiver Identification: EIC of Auction Office
- Receiver Role: A07
- Bid Time Interval: ID time interval
- In Area: The (control) area where the energy is to be put
- Out Area: The (control) area where the energy is coming from
- Price Amount: not used
- The resolution is 60 Minutes

### 5.1.2.2. Example

An example of Bid Document with one bid for ID session:

```
<?xml version="1.0" encoding="UTF-8"?>
<BidDocument DtdVersion="4" DtdRelease="0">
  <DocumentIdentification v="intraday_bid_example"/>
  <DocumentVersion v="1"/>
  <DocumentType v="A24"/>
  <SenderIdentification v="11XUNI-CZ-----5" codingScheme="A01"/>
  <SenderRole v="A29"/>
  <ReceiverIdentification v="10XCZ-CEPS-GRIDE" codingScheme="A01"/>
  <ReceiverRole v="A07"/>
  <CreationDateTime v="2010-05-14T12:05:05Z" />
  <BidTimeInterval v="2010-05-15T02:00Z/2010-05-15T06:00Z"/>
  <Domain v="10YCZ-CEPS-----N" codingScheme="A01"/>
  <SubjectParty v="11XUNI-CZ-----5" codingScheme="A01"/>
  <SubjectRole v="A29"/>
  <BidTimeSeries>
    <BidIdentification v="19"/>
    <AuctionIdentification v="CZAU-I-15052010-00308"/>
    <BusinessType v="A03"/>
    <InArea v="10YCZ-CEPS-----N" codingScheme="A01"/>
    <OutArea v="10YAT-APG-----L" codingScheme="A01"/>
    <MeasureUnitQuantity v="MAW"/>
    <Divisible v="A02"/>
    <BlockBid v="A01"/>
    <Period>
      <TimeInterval v="2010-05-15T02:00Z/2010-05-15T06:00Z"/>
      <Resolution v="PT60M"/>
      <Interval>
        <Pos v="1"/>
        <Qty v="27"/>
      </Interval>
      <Interval>
        <Pos v="2"/>
        <Qty v="27"/>
      </Interval>
      <Interval>
        <Pos v="3"/>
        <Qty v="27"/>
      </Interval>
      <Interval>
        <Pos v="4"/>
        <Qty v="0"/>
      </Interval>
    </Period>
  </BidTimeSeries>
</BidDocument>
```

### 5.1.3. Allocation Result Document

#### 5.1.3.1. Definitions

The document is compliant with ECAN v4r0.

No file is distributed in case that no bid is submitted by given ITR for given business day



Allocation Results Document is used to inform ITRs about detailed ID results related to their submitted bids:

- Document Identification: **Will be different for each individual ID session.**
- Document Type: A25
- Sender Identification: EIC of Auction Office
- Sender Role: A07
- Receiver Identification: Party code
- Receiver Role: A29
- Bid Time Interval: **Whole given business day**
- In Area: The (control) area where the energy is to be put
- Out Area: The (control) area where the energy is coming from
- Business Type: A03
- Contract Identification: **Will be different for each individual ID session.**
- Contract Type: A07 **ID Contract**
- Price Amount: not used.
- The resolution is 60 Minutes

### 5.1.3.2. Example

An example of Allocation Result Document for ID session:

```
<?xml version="1.0" encoding="UTF-8"?>
<AllocationResultDocument DtdVersion="4" DtdRelease="0">
  <DocumentIdentification v="intraday_results_example"/>
  <DocumentVersion v="1"/>
  <DocumentType v="A25"/>
  <SenderIdentification v="10XCZ-CEPS-GRIDE" codingScheme="A01"/>
  <SenderRole v="A07"/>
  <ReceiverIdentification v="11XUNI-CZ-----5" codingScheme="A01"/>
  <ReceiverRole v="A29"/>
  <CreationDateTime v="2010-05-14T18:07:02Z" />
  <BidTimeInterval v="2010-05-15T02:00Z/2010-05-15T06:00Z"/>
  <Domain v="10YCZ-CEPS-----N" codingScheme="A01"/>
  <SubjectParty v="11XUNI-CZ-----5" codingScheme="A01"/>
  <SubjectRole v="A29"/>
  <AllocationTimeSeries>
    <TimeSeriesIdentification v="105"/>
    <BidDocumentIdentification v="intraday_bid_example"/>
    <BidDocumentVersion v="1"/>
    <BidIdentification v="19"/>
    <AuctionIdentification v="CZAU-I-15052010-00308"/>
    <BusinessType v="A03"/>
    <InArea v="10YCZ-CEPS-----N" codingScheme="A01"/>
    <OutArea v="10YAT-APG-----L" codingScheme="A01"/>
    <ContractType v="A07" />
  </AllocationTimeSeries>
</AllocationResultDocument>
```

```

5_89KI"/>
    <ContractIdentification v="I_10051502_AC_11XUNI-CZ-----
    <MeasureUnitQuantity v="MAW"/>
    <Period>
        <TimeInterval v="2010-05-15T02:00Z/2010-05-15T06:00Z"/>
        <Resolution v="PT60M"/>
        <Interval>
            <Pos v="1"/>
            <Qty v="0"/>
            <BidQty v="27"/>
        </Interval>
        <Interval>
            <Pos v="2"/>
            <Qty v="0"/>
            <BidQty v="27"/>
        </Interval>
        <Interval>
            <Pos v="3"/>
            <Qty v="0"/>
            <BidQty v="27"/>
        </Interval>
        <Interval>
            <Pos v="4"/>
            <Qty v="0"/>
            <BidQty v="27"/>
        </Interval>
    </Period>
</AllocationTimeSeries>
</AllocationResultDocument>

```

## 5.1.4. Rights Document

### 5.1.4.1. Definitions

The document is compliant with ECAN v4r0.

Rights Document is used to inform the TSO about the allocated ID capacity rights:

- Document Identification: Will be different for each individual ID session.
- Document Type: A23
- Sender Identification: EIC of Auction Office (CEPS)
- Sender Role: A07 (Transmission Capacity Allocator)
- Receiver Identification: Party code
- Receiver Role: A29 (Capacity Trader)
- Applicable Time Interval:
  - For 4-hour sessions: ID time interval (0:00–4:00, 4:00–8:00 etc.)
  - For 1-hour sessions: **always time interval that covers the whole business day**
- Domain: see *Chapter 5.2. Domain*
- Document Status: A02 (final)

- Business Type: A33
- In Area: The (control) area where the energy is to be put
- Out Area: The (control) area where the energy is coming from
- Rights holder: The capacity rights owner
- Contract Identification: Will be different for each individual ID session. See Chapter CAI Naming Convention below.
- Contract Type: A07 Intraday Contract
- The resolution is 60 Minutes
- Measure Unit Quantity: MAW
- Qty: 3 decimals, all decimals have to zero
- Fields from the ECAN document that are not used for the scheduling process: Transferee Party; Previous Contract Identification; Auction Identification; Currency; Measure Unit Price

#### 5.1.4.2. CAI Naming Convention

The following naming convention will be used for capacity identification in the element Contract Identification (35 characters):

I\_<DATE><SESSION>\_<SOURCE\_TSO><TARGET\_TSO>\_<ITR\_EIC>\_<CONTINGENCY number>

The explanation of the elements:

I	Indicates ID Physical Transmission Rights.
<DATE>	Business day in format “YYMMDD”, where YY indicates the last two positions, i.e. for 2010 only 10 are used.
<SESSION>	Order number of ID session in format “XX”.
<SOURCE_TSO>	<p>The couple of <i>Source TSO</i> and <i>Target TSO</i> representing border direction. In the <i>Source TSO</i> element, there is the first letter of the source TSO code. The letters to be used:</p> <ul style="list-style-type: none"> <li>• APG – A</li> <li>• CEPS – C</li> <li>• PSE – P</li> <li>• SEPS – S</li> <li>• TENNET – T</li> <li>• 50Hertz – 5</li> <li>• MAVIR - M</li> </ul>
<TARGET_TSO>	The first letter of the target TSO code.

<ITR_EIC>	The EIC identification of the ITR (16 characters).
<CONTINGENCY number>	4 characters created via Auction Office.

Examples:

I_10010101_CA_11XUNI-CZ-----5_XY90	Capacity rights for the first ID session of business day 1. 1. 2010, border direction CEPS-APG and ITR UNI.
I_10123106_5C_11XUNI-CZ-----5_27H4	Capacity rights for the last ID session of business day 31. 12. 2010, border direction 50Hertz-CEPS and ITR UNI.

- Assignment of CAI depends on the used session model:
  - 4-hour session model – The different CAI is assigned to Rights Holders for each ID session and border direction. Therefore, the nominations are submitted separately per each ID time-interval, – i.e. up to 6 nominations for 4-hour.
  - 1-hour session model – The different CAI is assigned to Rights Holders for each ID session, border direction and individual bid. Therefore, the nominations are submitted separately per each ID time-interval and capacity allocated within the given bid, – i.e. up to 24 (23 / 25) nominations for 1-hour sessions in case of one bid for each session or two bids for 12 sessions. But the number of CAIs is not fixed and depends on the number of submitted bids.

#### 5.1.4.3. Example

Capacity rights allocated for the second ID session of business day 15.5.2010 for border direction CEPS-APG:

```
<?xml version="1.0" encoding="UTF-8"?>
<RightsDocument DtdVersion="4" DtdRelease="0">
  <DocumentIdentification v="A23_CZAU-I-15052010-003948"/>
  <DocumentVersion v="1"/>
  <DocumentType v="A23"/>
  <SenderIdentification codingScheme="A01" v="10XCZ-CEPS-GRIDE"/>
  <SenderRole v="A07"/>
  <ReceiverIdentification codingScheme="A01" v="11XUNI-CZ-----5"/>
  <ReceiverRole v="A29"/>
  <CreationDateTime v="2010-05-15T01:00:00Z"/>
  <ApplicableTimeInterval v="2010-05-15T02:00Z/2010-05-15T06:00Z"/>
  <Domain v="10YDOM-AT-CZ---5" codingScheme="A01" />
  <DocumentStatus v="A02"/>
  <RightsTimeSeries>
    <TimeSeriesIdentification v="00033"/>
    <BusinessType v="A33"/>
    <InArea codingScheme="A01" v="10YAT-APG-----L"/>
    <OutArea codingScheme="A01" v="10YCZ-CEPS-----N"/>
    <RightsHolder codingScheme="A01" v="11XUNI-CZ-----5"/>
  </RightsTimeSeries>
</RightsDocument>
```

```

5_UJ39"/>
    <ContractIdentification v="I_10051502_CA_11XUNI-CZ-----
    <ContractType v="A07"/>
    <MeasureUnitQuantity v="MAW"/>
    <Period>
        <TimeInterval v="2010-05-15T02:00Z/2010-05-15T06:00Z"/>
        <Resolution v="PT60M"/>
        <Interval>
            <Pos v="1"/>
            <Qty v="17.000"/>
        </Interval>
        <Interval>
            <Pos v="2"/>
            <Qty v="17.000"/>
        </Interval>
        <Interval>
            <Pos v="3"/>
            <Qty v="17.000"/>
        </Interval>
        <Interval>
            <Pos v="4"/>
            <Qty v="17.000"/>
        </Interval>
    </Period>
</RightsTimeSeries>
</RightsDocument>

```

## 5.2. Domain

The domain element is used for all data flows above in order to assign document to proper border.

Border	Domain
APG - CEPS	10YDOM-AT-CZ---5
CEPS - TENNET	10YDOM-CZ-D2---0
CEPS - 50Hertz	10YDOM-CZ-D8---V
CEPS - PSE	10YDOM-CZ-PL---5
CEPS - SEPS	10YDOM-CZ-SK---T
50Hertz - PSE	10YDOM-D8-PL---R
PSE - SEPS	10YDOM-PL-SK---O
Border Area Czech Republic, Germany and Slovakia	10YDOM-CZ-DE-SKK
Border Area Czech Republic and Poland	10YDOM--CZ-PL--S
MAVIR - SEPS	10YDOM-HU-SK---O
APG - MAVIR	10YDOM-AT-HU---O

## 6. ACTUAL SESSION MODEL CONFIGURATION

Border	Session model	Applicable as of
APG - CEPS	4-hour	1.12.2010
APG - MAVIR	4-hour	15.6.2012
CEPS - TENNET	4-hour	1.12.2010
CEPS - 50Hertz	4-hour	1.12.2010
CEPS - PSE	4-hour	1.12.2010
CEPS - SEPS	4-hour	1.12.2010
	1-hour	3.4.2012
50Hertz - PSE	4-hour	1.12.2010
PSE - SEPS	4-hour	1.12.2010
MAVIR - SEPS	4-hour	1.12.2010

Date of last update of session model configuration: 7.5.2012.