

## XBID\_TSO\_NOR\_01: Cross-Zonal Capacity submission

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### Approval

Version	Date	Name	Function	Signature

### Previous versions

Version	Date	Author	Summary of changes
0.1	23/02/2015	Statnett & TenneT TSO B.V.	Initial draft
0.2	04/03/2015	Elia	Review
0.3	11/03/2015	TenneT TSO B.V.	Processing of review comments
0.4	12/02/2016	TenneT TSO B.V.	Processing of review comments
0.5	15/02/2016	Statnett	Review/update table/new comments
0.6	20/06/2016	Joint	Reviewed and Cleaned-up
0.7	31/10/2016	Joint	Reviewed and Cleaned-up
0.8	22/05/2017	Rte	New case added: reduction of the NTCs after opening of the market
0.9	22/09/2017	Energinet	Added Coordinated Capacity Calculators (CCCs) in the procedures in order to be Capacity Calculation Methodology (CCM) compliant.
1.0	21/11/2017	Joint	Cleaned up
1.1	04/06/2018 07/06/2018	TenneT TSO B.V. Statnett	Final clean up before GoLive Change of GOT for the Nordics
1.2	20/12/2018	TenneT TSO B.V.	Update of table " <i>The Interconnectors and the TSOs involved in the CZC process</i> " related to harmonization of IDCZGOT.

1.3.	14/02/2019	APG TenneT TSO B.V. Energinet REN	Changes for borders where IDCZGOT at D-1 15:00 in February. <ul style="list-style-type: none"> <li>Updates of the status for interconnectors.</li> </ul>
1.4	29/03/2019	O TF Chair	Minor textual change
1.5	28/04/2019	O TF Chair	Inclusion of 2 <sup>nd</sup> wave in table 1
1.5.1	29/05/2019	O TF Chair	Minor textual change
1.5.2	19/11/2019	O TF Chair	Update of CZC and AAC times of 2 <sup>nd</sup> wave interconnectors
1.5.3	27/07/2020	O TF Chair	Inclusion of Electronic Handshake in step 7.
1.5.4	25/09/2020	O TF Chair	Inclusion of DE-BE and NO2-DE in table 1
1.5.5.	04/02/2021	TTG PSE Elia RTE	Update of CZC and AAC real values in table 1
1.5.6	22/08/2021	O TF Chair & LIP14	Inclusion of 3 <sup>rd</sup> wave in table 1
	31/08/2021	O TF Chair	Adjust timings for Italian borders in table 1 to reflect real values delivery
1.5.7	10/11/2021	O TF Chair	Include remark on responsibility for virtual interconnectors (repeating footnote on multiple interconnectors in table 1)

## Remarks

As a general principle, as soon as an event occurs that prevents the normal performance of a process the operators refer to **XBID\_TSO\_BUP\_01**.

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# 1. Introduction

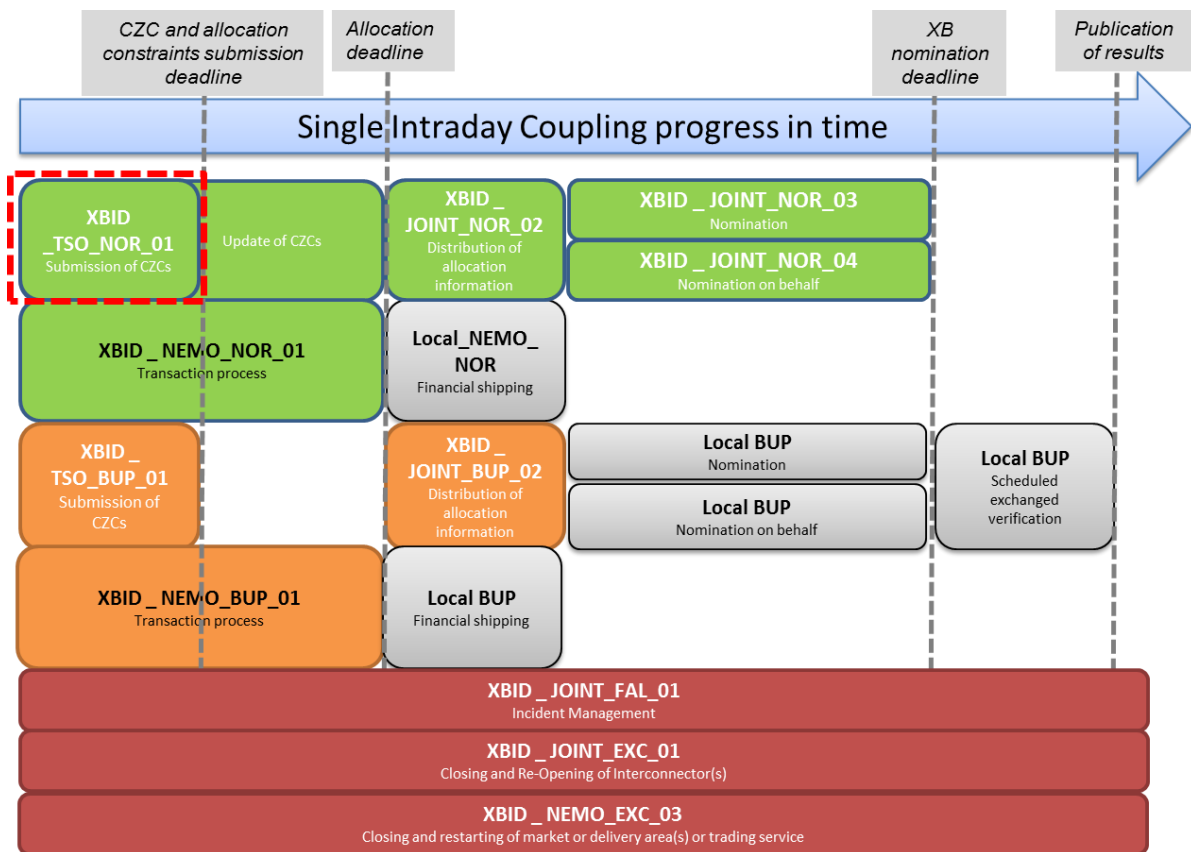


Figure 1 High level process

This procedure describes the sending, reception and integration of the Already Allocated Capacities (AACs) and Cross-Zonal Capacities (CZCs) into the XBID System for all Interconnectors.

This procedure applies for both the submission of initial AACs and CZCs and the submission of updated AACs and CZCs.

The TSO, or if applicable the CCC submits the Net Transfer Capacities (NTCs) and the AACs (from Long term and Day-Ahead timeframes and also Intraday timeframe with CRIDA).

In this procedure:

- the submission of the AACs is the first main step ("part 1")
- the submission of CZCs is the second main step ("part 2"), which covers the submission of the NTCs.

**Note:**

- Where CZCs are mentioned in the rest of this procedure, this means NTCs.
- Where TSO(s) is (are) mentioned in the rest of this procedure it can be replaced by the relevant Coordinated Capacity Calculator, CCC, if applicable.
- Capitalized terms used in the operational XBID procedures have the meaning set forth in Exhibit 1 of the Intraday Operations Agreement (IDOA).

Preceding to the execution of this procedure the TSOs responsible for the involved Interconnector agree upon the CZCs and the AACs for this Interconnector.

AACs:

Based on Local Agreements one of the involved TSOs sends the AACs to the XBID System before the opening of the Interconnector for the Single IntraDay Coupling (SIDC).

As a potential backup measure, on some Interconnectors, another involved TSO on the Interconnector is also able to send the AACs to the XBID System.

Note: On Interconnectors where ramping is applicable, the AACs are also needed in order to perform the correct ramping calculation by the XBID System.

Note: TSOs can update AAC at any time during the allocation continuous trading process by sending a new version of AAC file.

CZCs:

Based on Local Agreements one of the involved TSOs sends the CZCs to the XBID System before the opening of the Interconnector for the Cross-Border Intraday Market. Adjustments of CZCs are possible for remaining market time units.

As a potential backup measure, on some Interconnectors, another involved TSO on the Interconnector is also able to send the CZCs to the XBID System.

Note: On some Interconnectors the CZCs will not be submitted to the XBID System in case one or more of the involved TSOs did not give the initial Day-Ahead authorization, to the responsible TSO . The initial Day-Ahead authorization is an internal TSO process, but might impact the start of the Intraday process.

Note: All involved systems are expected to have log functionality, which records the time stamp of each action described in this procedure.

Note: On some interconnectors, the CZC and AAC may not be sent before the GOT due internal processes are not completed yet.

Note: TSOs can update CZC at any time during the allocation continuous trading process by sending a new version of CZC file.

Table 1 – The Interconnectors and the TSOs involved in the CZC process<sup>1</sup>

Interconnector (BZ border)	TSO (sending the AACs/ CZCs)	AAC (real values)		CZC (real values)		Gate Opening	Allocation Constraints ?	Automatic or Manual activation
		Target time	Deadline	Target time	Deadline			
AT-HU	APG	22:00	22:00	22:00	22:00	15:00	No.	manual
AT-SI	APG	22:00	22:00	22:00	22:00	15:00	No.	manual
BE-NL	Elia	15:00	22:00	22:00	22:00	15:00	No	automatic
BE-FR	RTE	17:30	22:00	13:00	22:00	15:00	No	automatic
CZ-AT	APG	22:00	22:00	22:00	22:00	15:00	No.	manual
CZ-DE (50Herz/Tennet)	CEPS	22:00	22:00	22:00	22:00	15:00	No.	Automatic
DE-NL	TTN	16:00	20:45	20:30	20:45	15:00	No	automatic
DE-FR	DE-FR	AMP	20:45	16:00	22:00	15:00	No	manual
	TNG- FR	AMP	20:45	16:00	22:00	15:00	No	manual
DE-AT	APG	22:00	22:00	22:00	22:00	15:00	No	manual
DE-DK1	TTG	14:30	14:45	18:00	18:00	15:00	No	automatic
DE-DK2	ENDK	14:30	14:45	17:45	17:55	15:00	Yes	automatic
DK1-NL	TTN	16:00	20:45	20:15	20:45	15:00	Yes	automatic
ES-PT	REN	14:00	21:55	14:00	20:45	22:00	No	automatic
FR-ES	REE	14:00	20:45	14:00	20:45	22:00	No	automatic
HR-SI	ELES	22:00	22:00	22:00	22:00	15:00	No.	manual
HU-HR	HOPS	22:00	22:00	22:00	22:00	15:00	No.	manual
HU-RO	MAVIR	22:00	22:00	22:00	22:00	15:00	No.	manual

NO1-NO2 <sup>2</sup>	NOIS <sup>3</sup>	13:45	14:00	13:45	14:00	15:00	No	Automatic
NO1-NO3	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
NO1-NO5 <sup>2</sup>	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
NO1-SE3	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
NO2-DK1 <sup>2</sup>	NOIS	13:45	14:00	13:45	14:00	15:00	Yes	Automatic
NO2-NL <sup>2</sup>	TTN Statnett (Rotational)	14:30	20:45	20:15	20:45	15:00	Yes	Automatic
NO2-NO5	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
NO3-NO4	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
NO3-NO5	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
NO3-SE2	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
NO4-SE1	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
NO4-SE2	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
PL-CZ <sup>2</sup>	PSE	13:55	22:00	22:00	22:00	15:00	Yes	Automatic
PL-DE <sup>2</sup>	PSE	13:55	22:00	22:00	22:00	15:00	Yes	Automatic
RO-BG	ESO	16:00	16:30	16:00	16:30	15:00	No.	Automatic
SE1-FI	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
SE1-SE2	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
SE2-SE3	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
SE3-FI	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
SE3-SE4	NOIS	13:45	14:00	13:45	14:00	15:00	No	Automatic
SE3-DK1 <sup>2</sup>	NOIS	13:45	14:00	13:45	14:00	15:00	Yes	Automatic

<sup>2</sup> On this interconnector / BZ border a virtual interconnector is in use. The TSO responsible for the virtual interconnector has to ensure that capacity on the virtual interconnector is released in line with the timings for the interconnector listed in the table.

<sup>3</sup> Nordic Operational Information System

SE4 – DK2	NOIS	13:45	14:00	13:45	14:00	15:00	Yes	Automatic
DK1-DK2	NOIS	13:45	14:00	13:45	14:00	15:00	Yes	automatic
EE-LV	Elering + AST (as priority 2)	14:30	15:00	14:30	15:00	15:00	No	Automatic
LV-LT	Litgrid + AST (as priority 2)	14:30	15:00	14:30	15:00	15:00	No	Automatic
EE-FI	Elering + Fingrid (as priority 2)	14:30	15:00	14:30	15:00	15:00	Yes (ramping of 600MW)	Automatic
LT-SE	SVK+ Litgrid (as priority 2)	14:30	15:00	14:30	15:00	15:00	Yes (ramping of 600MW)	Automatic
PL-SE <sup>2</sup>	PSE	14:00	18:00	14:00	18:00	15:00	Yes (ramping of 600MW)	Automatic
LT-PL <sup>2</sup>	LitGrid + (PSE as a backup)	14:00	18:00	14:00	18:00	15:00	Yes (ramping of 600MW)	?
DE-BE	AMP	16:00	22:00	16:00	22:00	15:00	No	manual
DE-NO2 <sup>2</sup>	TTG	14:00	18:00	13:45	18:00	15:00	Yes (ramping of 300MW)	Automatic
IT-AT	TERNA	14:45	21:45	22:00	22:00	15:00	Yes	Automatic
IT-FR	TERNA	14:45	21:45	22:00	22:00	15:00	Yes	Automatic
IT-SI	TERNA	14:45	22:30	22:30	22:30	15:00	Yes	Automatic
Italian Internal Bidding Zones	TERNA	14:45	15:30	15:30	15:30	15:00	No	Automatic

### 1.1. Summary

As a general remark, the XBID normal procedures aim at offering a common framework to which all the local normal procedures must be aligned accordingly.

The purpose of this document is to describe the sending, reception and integration of the Intraday CZCs and AACs to the XBID System

### 1.2. Governed / Regulated by

- TSO Cooperation IntraDay (TCID)
- High Level Architecture (HLA)
- High Level Business Process (HLBP)

### 1.3. Tools and Communication protocols

- TSOs Pre-Coupling Systems
- MPLS/ ECP (between the XBID System and the TSOs/other parties IT systems)
- Leased Line, SCP
- Encrypted E-mail
- SFTP
- CMM (XBID System)



## **1.4. Associated procedures**

Preceding procedures:

- TSO- internal and local procedures to determine the AACs
- TSO- internal and local procedures to determine the CZCs

Subsequent procedures:

- XBID\_JOINT\_NOR\_02: Distribution of Allocation Information
- Local procedure on Request of Explicit Capacity Rights

Other associated procedures and rules:

- XBID\_TSO\_BUP\_01: Cross-Zonal Capacities Submission
- XBID\_JOINT\_OTH\_02: Internal and External Communications
- XBID\_JOINT\_FAL\_01: Incident Management
- XBID\_JOINT\_EXC\_01: Closing and re-opening of Interconnector(s)

## 2. Capacity submission to the XBID platform

### 2.1. Preconditions to start

The TSOs have produced the CZCs and AACs.

### 2.2. General overview

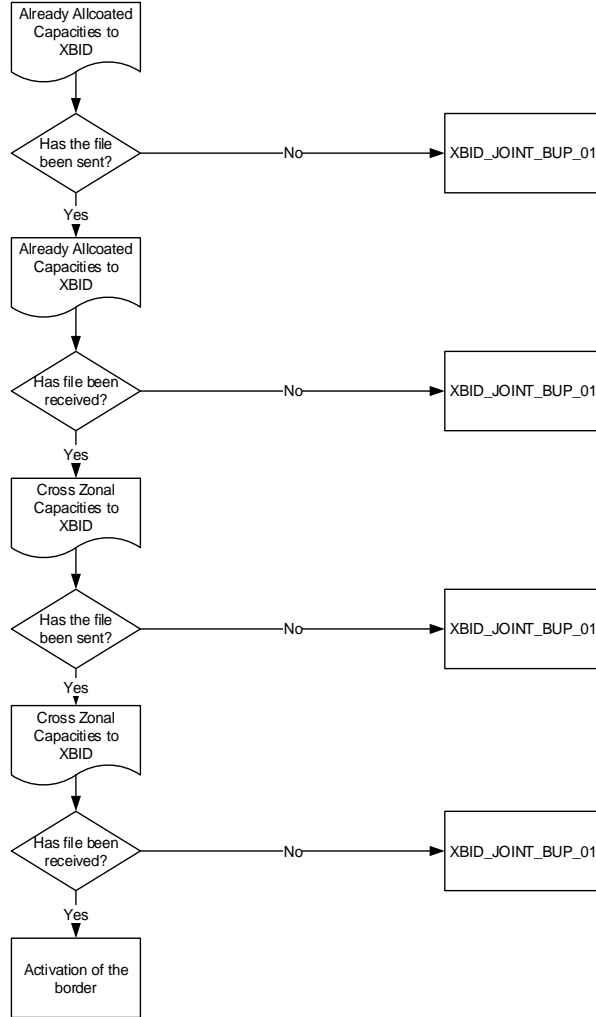


Figure 2 Steps in the procedure (not necessarily sequential)

The table below lists the XBID Generic HLA processes related to the CZCs.

Table 2 – The Cross-Zonal Capacity submission process

#	Process	Target time & (deadline)	From	To	Tool	BACKUP
<b>Part 1: Submission of the AACs</b>						
1	The TSO, sends the AACs to XBID	See table 1	TSO Pre-coupling system	XBID System	Regular communication channel	XBID_TSO_BUP_01
2	XBID system integrates the AACs	At the reception of the AACs (within 5 minutes)	-	-	XBID System	XBID_TSO_BUP_01
3	XBID System sends the ACK to the TSO	At the reception of the AACs (within 5 minutes)	XBID System	TSO Pre-coupling system	Regular communication channel	XBID_TSO_BUP_01
<b>Part 2: Submission of the CZCs</b>						
4	The TSO sends the CZCs to the XBID System.	See table 1 for update 15 min before respective CMM contract	TSO Pre-Coupling system	XBID System	Regular communication channel	XBID_TSO_BUP_01
5	XBID System integrates the CZCs	At the reception of the CZCs (within 5 minutes)	-	-	XBID System	XBID_TSO_BUP_01
6	XBID System sends the ACK to the TSO Pre-Coupling System	At the reception of the CZCs (within 5 minutes)	XBID System	TSO Pre-Coupling System	Regular communication channel	XBID_TSO_BUP_01

#	Process	Target time & (deadline)	From	To	Tool	BACKUP
Part 3: Gate opening						
7	Automatic or manual activation of the CZCs in XBID System	Before the delivery period	-	-	XBID System	XBID_TSO_BUP_01

### 2.3. Process Clarification

#### 1. Sending of the AACs to the XBID System

At the latest at target time (see table 1) the TSO sends the AACs to the XBID System.

The AACs for the Interconnector is the scheduled flow for the whole day, taken from all allocation time frames of all parties and both directions, which can be delivered either in an aggregated and netted schedule (CBS) or a non-aggregated and non-netted schedule (CAS). The TSO (whoever operates according to the agreed scheme) sends the AACs also on behalf of the other TSO(s).

#	Risk cases	Measures taken
1	AACs cannot be determined by TSOs.	XBID_TSO_BUP_01
2	TSOs' Pre-Coupling System cannot send the AACs.	XBID_TSO_BUP_01
3	XBID System cannot receive the AACs.	XBID_TSO_BUP_01

#### 2. XBID System integrates the AACs

The AACs for the Interconnector in both directions have automatically been uploaded in XBID System.

#	Risk cases	Measures taken
4	XBID System fails to integrate the AACs.	XBID_TSO_BUP_01

#### 3. XBID System sends the acknowledgement to the TSO Pre-coupling System

When XBID System receives the AACs, automatic checks are performed by XBID System (e.g.: Message version check, sender & receiver data checks, content checks). When the checks are successful, the XBID System sends a positive ACK (A01) to the TSO Pre-coupling System (Acknowledgement Document).

#	Risk cases	Measures taken
5	XBID System rejects the AACs/ sends a negative acknowledgement for AACs.	XBID_TSO_BUP_01
6	TSO Pre-Coupling System doesn't receive acknowledgement for AACs.	XBID_TSO_BUP_01

#### 4. The TSO sends the CZCs to the XBID System

At the latest at the CZC deadline (see Table 1) the TSO sends the CZCs to XBID System. In case of capacity updates TSO provides CZC information to XBID CMM system no later than 15 minutes before IDGOT to XBID CMM system via regular communication channel. The CZCs can also contain negative values.

The CZCs for the Interconnector are specified for both directions for the whole day. The TSO (whoever operates according to the agreed scheme) sends the CZCs also on behalf of the other TSO(s).

Note: When there is a need to update the CZC on an Interconnector, after the Gate opening time, the impacted TSO operator, can perform a brief Service Halt or direction halt (regarding the situation) in the CMM module of the XBID System such as described in XBID\_JOINT\_EXC\_01. This brief halting of the market is optional in case the situation is critical and the operator needs additional time (in order to avoid further allocations likely to degrade the situation).

#	Risk cases	Measures taken
7	CZCs cannot be determined by TSOs.	XBID_TSO_BUP_01
8	TSOs' Pre-Coupling System cannot send the CZCs.	XBID_TSO_BUP_01
9	XBID System cannot receive the CZCs.	XBID_TSO_BUP_01

#### 5. XBID System integrates the CZCs

All CZCs for the Interconnector in both directions have automatically been uploaded in the XBID System.

#	Risk cases	Measures taken
10	XBID System fails to integrate the CZCs.	XBID_TSO_BUP_01

#### 6. XBID System sends the acknowledgement to the TSO pre-coupling System

When XBID System receives the CZCs, automatic checks are performed by XBID System (e.g.: Message version check, sender & receiver data checks, content checks). When the checks are successful, XBID System sends an ACK 'OK' to the TSO Pre-coupling System (acknowledgement document).

#	Risk cases	Measures taken
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11	XBID System rejects the CZCs/ sends a negative acknowledgement for CZCs.	XBID_TSO_BUP_01
12	TSO's Pre-Coupling System doesn't receive acknowledgement for CZCs.	XBID_TSO_BUP_01

### 7. Automatic or manual activation of CZCs in the XBID System

After the successful upload of the CZCs and AACs the CZCs for Cross-Border trading must be activated. In line with the configuration (see table 1):

- the activation step will be done automatically by the XBID System at a predefined time (Gate Opening Time) or as soon as possible after Gate Opening Time when the precondition is met that both the CZCs and AACs have been uploaded in the XBID System, or
- the activation step will be done automatically by the XBID System after Electronic Confirmation message is received from the TSO's Pre-Coupling System, or
- the activation will be done manually by the TSO operator.

#	Risk cases	Measures taken
13	XBID System does not activate/ update CZCs.	XBID_TSO_BUP_01

### 3. Final State

The procedure ends when the CZCs and AACs are successfully received, integrated and activated by the XBID System.