

IDA_NEMO_NOR_07: Send IDA network data to PMB and Cross-check IDA network data

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Status	<input type="checkbox"/> Draft	<input checked="" type="checkbox"/> Final

Previous versions

Version	Date	Author	Summary of changes
1.0	26/11/2024	[REDACTED]	- Case 2.2, step 6: <ul style="list-style-type: none">o made ready for 15' MTU GL

Table of Content

1.	Introduction.....	1
1.1.	Summary	2
1.2.	Governed / Regulated by	3
1.3.	Tools and Communication protocols	3
1.4.	Associated procedures	3
2.	Procedure	4
2.1.	Preconditions to start.....	4
2.2.	Process Clarification	4
	Table 1 – Risk Cases associated to the process.....	5
2.3.	Final state	6

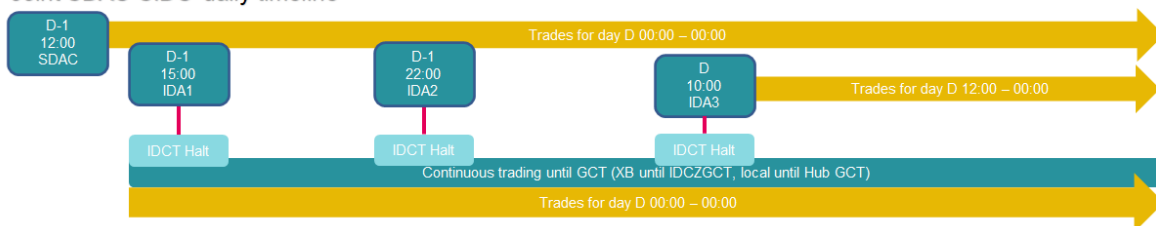
1. Introduction

This procedure describes the sending and the cross-check of IDA Network Data files from NEMO local IT system to NEMO local PMB and PMB cloud. At the reception, the PMB validates and stores the Network Data in the database.

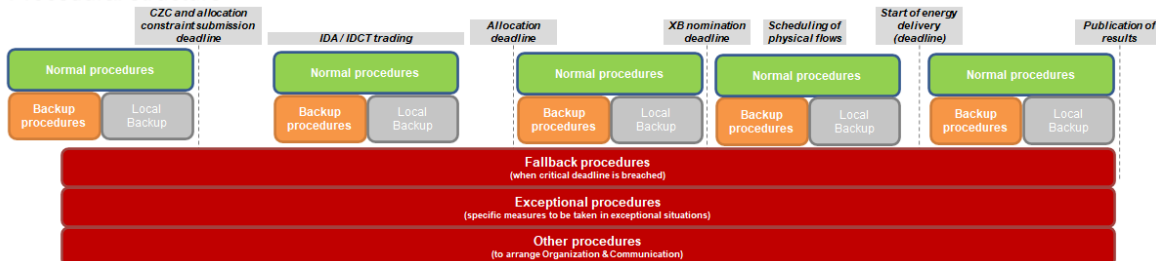
Each Virtual Broker (VB) has a specific configuration in terms of interconnectors (lines) for which

Network Data values need to be provided. This configuration is determined in the Shared Configuration File (SCF).

Joint SDAC-SIDC daily timeline



Procedural structure



A Network Data file contains Cross Zonal Capacities (CZC) values for one or more lines that have one of the following configurations, according to definitions in the ANDOA Glossary.

- a) Single line
- b) Decoupling line
- c) Alternate line

1.1. Summary

In normal day, for each IDA session IDA CIP Tool generates two versions of Network Data files for individual NEMOs according IDA CIP Tool NEMO configuration. The Network Data files are based on input file from CMM that contain all datasets for all borders. First version of Network Data file is generated by IDA CIP Tool at OBK GCT-15 and should shortly thereafter be available in NEMO local IT System and PMB. Second version of Network Data is generated by IDA CIP Tool OBK GCT-5 and should be available in NEMO local IT system and PMB shortly thereafter. This implies that following process and steps according to chapter 2.3 is repeated twice for each IDA session during a normal day.

After the Network Data files are received by each Operational NEMO from the IDA CIP Tool, each NEMO’s IT System sends the received Network Data to its Local PMB for cross-check and validation.

Once the Network Data have been validated by the Local PMB, each PMB sends its own Network Data file(s) to the Cloud. At the same time, the Local PMB will receive the Network Data file from all the other PMBs. This step is mandatory for the Market Coupling Session to continue.

Each PMB Operator verifies the sending of its own Network Data and the reception and validation of the Network Data from the other PMBs through the PMB interface.

All the above steps have to be performed before the procedural Target Time is reached. If not done by Target Time (OBK GCT), the procedure IDA_NEMO_BUP_06 - Send IDA network data to PMB and Cross-check IDA network data will be followed.

Remark:

All NEMOs should in a normal day submit two Network Data versions to PMB.

- Version 1 should be visible in PMB shortly after OBK GCT-15
- Version 2 should be visible in PMB shortly after OBK GCT-5 and no later than OBK GCT.

Example for IDA 2 running at 22:00 CET/CEST (=OBK GCT)

- Version 1: Visible in PMB at 21:48 CET/CEST
- Version 2: Visible in PMB at 21:58 CET/CEST

To be noted that there is a clear distinction between the PMB Target Time for receiving the Network Data (OBK GCT+6') and the procedural Target Time for receiving the Network Data (OBK GCT-12' for the first version and OBK GCT-2' for the second version).


Remark:

A Cross-check line is in this procedure defined as a line submitted by two or more VB (double submission, multi submission) of which a cross-check validation is performed in PMB.

1.2. Governed / Regulated by

- Relevant operational agreements

1.3. Tools and Communication protocols

- NEMO Pre-Coupling Modules / Local NEMO IT systems
- 
- PMB

1.4. Associated procedures

In normal situation:

- IDA_JOINT_NOR_05 - Delivery of network data from IDA CIP Tool to NEMOs IT Systems. This previous process must have been successfully completed.
- IDA_NEMO_NOR_08 Aggregate order books and send to PMB. This process is done in parallel with the current process.
- IDA_NEMO_NOR_09 - Calculating IDA results. This process follows after successful completion of IDA_NEMO_NOR_02 and IDA_NEMO_NOR_06.

In back-up situation:

- As soon as an event occurs that prevents the normal performance of the IDA_NEMO_NOR_07 process steps, the PMB Operators refer to procedure IDA_NEMO_BUP_07.

2. Procedure

2.1. Preconditions to start

This procedure can start once the procedure *IDA_JOINT_NOR_05 - Delivery of network data from IDA CIP Tool to NEMOs IT Systems* has been successfully completed and *IDA_NEMO_NOR_06- Configuration Synchronization* is completed.

2.2. Process Clarification

All of the following steps are mandatory for all PMBs.

1. The process starts as soon as the process *Delivery of data from IDA CIP Tool to local NEMO IT System and IDA_NEMO_NOR_06-Configuration Synchronization* is completed. This can be verified on the PMB dashboard: the status of Network Data process became “Active”. From this moment, the PMB is ready to receive the Network Data from its NEMO IT System(s) and from the other PMBs in the Cloud. This readiness can be verified on the PMB dashboard: the status of Network Data process became “Active”.
2. As soon as possible and before Target Time, the Network Data are sent from the Local NEMO IT System to the Local PMB. In normal circumstances, all the Network Data from all PMBs should be received before the Target Time is reached. If any Network Data cannot be received or sent by Target Time, then the PMB Operators refer to *SIDC_JOINT_FAL_01* procedure.

The Network Data are sent through the message MN10 and are saved in the PMB. The reception in the PMB is indicated in the Receive Network Data detail screen. The status is set to “Arrived”. The Notification bar displays the message: “New network data has been received”.

3. As soon as the Network Data are received by the PMB as described in step 2, they are validated by the PMB. The outcome of the validation process for each PMB is shown in the Receive Network Data detail screen. The status is set to “Validated”. If the status is “Failed”, refer to the *IDA_NEMO_BUP_07* procedure.
4. After the validation, the Network Data are distributed to the Cloud through the message MN20. A message is sent to every PMB in the Cloud. The outcome of the sending of the Network Data is shown in the Sent Network Data detail screen. The status is set to “Delivered”. If the status is “Not delivered”, refer to the *IDA_NEMO_BUP_07* procedure.
5. The Local PMB will receive from the other PMBs the Network Data file (MN20) and file is saved in the system. The file reception is shown in the Received Network Data detail screen. The status is set to “Received”. The notification bar displays the message “New Network Data has been received from X” (X being the name of the sender VB).
6. As soon as the Network Data are received, they are validated by the Local PMB. The outcome of the validation process is shown in the Receive Network Data detail screen. The status is set to “Validated”.
The validation of the received Network Data by the Local PMB includes the Cross-checking validation for the double submission interconnectors (lines), as specified in the SCF. The validation process can be monitored in the Cross Check detail screen.

Once the Network Data containing the CZC values for a cross-checked line is received, the PMB displays an “Alert” status and activates the Ignore button. If the Market Coupling Session needs to continue without the Network Data from the other VB involved in the same line, the IDA_NEMO_BUP_07 procedure has to be applied.

The PMB performs the validation of a cross-checked line as soon as the Network Data files are received from both VBs responsible for that line. The validation process consists in comparing CZC values contained in the two Network Data files, for the same cross-checked line and for the same period.

If the values are identical, the status field is set to “Validated”. If the values are different, the status is set to “Failed” and the IDA_NEMO_BUP_07 procedure has to be applied.

7. Step 5 and 6 are repeated for all the PMBs in the Cloud.
The IDA [REDACTED] checks in the Local PMB, in the Crosscheck page, that all the lines are displayed with the status “Validated”.
If at least one line is not “Validated”, the IDA_NEMO_BUP_07 procedure will be followed.
8. When the Network Data have been received from every PMB in the Cloud and the PMB Target Time is reached, the PMB ends the Network Data process and its status will change to “Completed”. If the procedure IDA_NEMO_NOR_08 - Aggregate order books and send to PMB is finished too, the next process IDA_NEMO_NOR_09 _Calculating IDA results will start.

Table 1 – Risk Cases associated to the process

#	Risk cases	Measures taken
1	Problem in uploading Network data from Local NEMO IT system to Local PMB if the NEMO will submit at least one single-side line.	IDA_NEMO_BUP_07
2	Problem in validating the Network Data by the Local PMB (Failed or Alert status).	IDA_NEMO_BUP_07
3	Problem in distributing the Network Data to the Cloud.	IDA_NEMO_BUP_07
4	Problem in receiving the Network Data from other PMBs.	IDA_NEMO_BUP_07
5	New version of Network Data needs to be sent to the Cloud.	IDA_NEMO_BUP_07
6	Network Data still missing or invalid in the PMB	IDA_NEMO_BUP_07
7	Network Data still missing in IDA Coordinator at OBK GCT+6'	IDA_NEMO_BUP_07
8	Network Data step not marked as Completed in the PMB	IDA_NEMO_BUP_07

9	Only first version of Network Data is available in PMB at target time for all NEMOs	IDA_NEMO_BUP_07
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2.3. Final state

The procedure ends when PMB has received all Network Data and no cross-check error is remaining in the PMB.