

IDA_BUP_07: Send IDA Network Data to PMB and Cross-check IDA Network Data

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1. Introduction

This backup procedure describes the risk cases related to IDA steps of the procedure IDA_NEMO_NOR_07 and the related processes involved in the IDA Session. The IDA_NEMO_BUP_07 procedure describes risk cases relevant to verifying Network Data in local PMB, provision of IDA Network Data from local PMB to the PMB Cloud and Network Data validation done in PMB Cloud.

1.1. Summary

The purpose of this procedure is to provide the IDA NEMO Operators and IDA Coordinator with an overview of the applicable backup solutions in case of an issue between the sending of IDA Network Data from local PMB to the cloud or validation of the Network Data in all PMBs.

The below mentioned backup solutions may be applied only before OBK GCT+6' (as defined in IDA_JOINT_EXC_03 *Cancellation of Scheduled IDAs procedure* and in IDA_NEMO_EXC_02 *Partial Decoupling*) which is the deadline for the cancellation of a schedule IDA and the deadline for partial decoupling of relevant Virtual Brokers (VBs) during an IDA session.

In case the issue still persists at OBK GCT/OBK GCT+6', at the Latest Time to Start an Incident Committee for Network Data related issues (depending on risk case), an IC will be started according to procedure SIDC_JOINT_FAL_01.

If the backup solutions do not solve the issue before OBK GCT+6' and: (a) if Network Data are still not available for a certain Area, the Incident Committee will declare the decoupling of the relevant Virtual Broker(s) (VB) according to IDA_NEMO_EXC_02, (b) if Network Data are still not available for any Area, the Incident Committee will declare the cancellation of the IDA session according to IDA_JOINT_EXC_03.

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
- [REDACTED]
- PMB

1.4. Associated procedures

- IDA_NEMO_NOR_07 - Send IDA Network Data to PMB and Cross-check IDA Network Data

- SIDC_JOINT_FAL_01 - Incident Committee
- IDA_NEMO_EXC_02 - Partial Decoupling
- IDA_JOINT_EXC_03 - Cancellation of Scheduled IDAs
- SIDC_JOINT_OTH_02 - Internal and External Communications
- IDA_NEMO_OTH_05- [REDACTED] Incident Management
- IDA_NEMO_OPE_01-IDA Coordinator Switch
- IDA_NEMO_OPE_06-Exchanging Files in Backup Mode

2. Procedure

2.1. General overview

The table below lists all the risk cases associated to the Network Data process in PMB. The Target Time indicated in the table is the latest time by which the IDA NEMO Operator has to start performing a backup procedure. The cancellation/ partial decoupling deadline indicated in the table is the latest time by which the Incident Committee has to either declare cancellation of the relevant IDA if the issue is global, or the partial decoupling of a relevant Virtual Broker if the issue is at a local PMB/VB level.

Table 1 – overview of risk cases

Case	Network Data Issue description	Target time	Latest Time to start IC for Network Data reasons	IDA partial decoupling/cancellation deadline	PMB Message ID	Procedures involved
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.	OBK GCT-2'	OBK GCT	OBK GCT+6' + ND and OD time extension	MN10	OPE_01 OPE_06 EXC_02 FAL_01
2	Problem in validating the Network Data by the Local PMB (Failed or Alert status).	OBK GCT-2'	OBK GCT	OBK GCT+6' + ND and OD time extension	MN10 MN20 MN34	OPE_01 OPE_06 EXC_02 EXC_03 FAL_01
3	Problem in distributing the Network Data to the Cloud.	OBK GCT-2'	OBK GCT	OBK GCT+6' + ND and OD time extension	MN20	OPE_01 OPE_06 EXC_02 FAL_01
4	Problem in receiving the Network Data from other PMBs.	OBK GCT-2'	OBK GCT	OBK GCT+6' + ND and OD time extension	MN20 MN3	OPE_01 OPE_06 EXC_02 FAL_01
5	New version of Network Data needs to be sent to the Cloud.	OBK GCT-2'	OBK GCT	OBK GCT+6' + ND and OD time extension	MN10	OPE_01 OPE_06 EXC_02 EXC_03 FAL_01
6	Network Data still missing or invalid in the PMB	OBK GCT-2'	OBK GCT	OBK GCT+6' + ND and OD time extension	-	OPE_01 OPE_06 EXC_02 EXC_03 FAL_01

7	<p>Remark: this case to be followed in case decoupling/cancellation deadline is reached</p> <p>Network Data still missing in IDA Coordinator at OBK GCT+6'</p>	OBK GCT+6'	OBK GCT+6'	OBK GCT+6' + ND and OD time extension	-	EXC_02 EXC_03 FAL_01
8	<p>Network Data step not marked as Completed in the PMB</p>	OBK GCT+6'	OBK GCT+6'	OBK GCT + 6' + ND and OD time extension	-	FAL_01
9	<p>Only first version of Network Data is available in PMB at target time for all NEMOs</p>	OBK GCT-2'	OBK GCT	not relevant	-	EXC_02 EXC_03 FAL_01

2.2. Risk Cases - Process Clarification


Case 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

The different problems that could occur in the process of receiving the Network Data file(s) from its own Local NEMO IT Systems are the following:

1.1. Network Data not available in the Local NEMO IT System

At Target Time if the Network Data are not present in the Local NEMO IT System, the involved IDA NEMO Operator calls the IDA Coordinator in order to inform him about the problem. The involved IDA NEMO Operator follows a local procedure in order to solve the issue.

1.2. Local NEMO IT System is down

At Target Time, if the Local NEMO IT System is down and the Network Data have still not been received in the Local PMB, the involved IDA NEMO Operator calls the IDA Coordinator in order to inform him about the problem. The involved IDA NEMO Operator follows a local procedure in order to solve the issue. The involved IDA NEMO Operator need to manually download the network data from IDA CIP Tool and upload it in the Local PMB. If CIP  is not accessible at all, no NEMOs will be able to receive network data from IDA CIP Tool.

1.3. Connection between the Local NEMO IT System and the Local PMB is down

At Target Time, if the connection between the Local NEMO IT System and the Local PMB is down and the Network Data has still not been received in the Local PMB, the involved IDA NEMO Operator calls the IDA Coordinator in order to inform him about the problem. The

involved IDA NEMO Operator follows a local procedure in order to solve the issue. If the Network Data are available in the Local NEMO IT System, they have to be manually uploaded in the Local PMB.

1.4. Local PMB is down

At Target Time, if the Local PMB is down and the Network Data have still not been sent to the Cloud, the involved IDA NEMO Operator calls the IDA Coordinator in order to inform him about the problem. The involved IDA NEMO Operator follows a local procedure in order to solve the problem and contacts the PMB provider according to procedure IDA_EXC_04 to inform about the issue. An IC is triggered at Target Time at the latest, according to SIDC_JOINT_FAL_01.

The generated Network Data file from the Local NEMO IT System is provided in backup mode according to the IDA_NEMO_OPE_06 procedure. The IDA Coordinator will upload it in the PMB on behalf of the involved IDA NEMO Operator.

If the involved IDA NEMO Operator is the IDA Coordinator, at OBK GCT at the latest, the PMB Backup Coordinator will take over the IDA Coordinator role according to procedure IDA_NEMO_OPE_01.

At OBK GCT+6' (the PMB Target Time), if some Network Data is still missing or invalid in the IDA Coordinator PMB, proceed to risk case 7.

Case 2: Problem in validating the Network Data by the Local PMB (Failed or Alert status)

The different problems that could occur in the process of validating the Network Data files by the Local PMB are the following:

2.1. Local PMB validation is not working

If the Network Data validation cannot be performed because the Local PMB is down, Case 1.4 has to be followed.


2.2. Local PMB indicates that the Network Data file is invalid (“Failed” status)

The related error message is indicated in the PMB, by clicking on the Error detail button. The relevant IDA NEMO Operator must try to solve the problem locally by checking the error message in the Glossary and by contacting the PMB Provider, if necessary, according to procedure IDA_NEMO_EXC_04, or IDA CIP Tool Provider according to SIDC_JOINT_FAL_01, or XBID CMM Provider according to SIDC_JOINT_FAL_01.

In any case, the relevant IDA NEMO Operator needs to provide a valid Network Data file.

2.3. Validation issues related to Alternate lines (“Failed” or “Alert” status)

a) Network Data mismatch (Cross-check status: “Failed”)

In case both IDA NEMO Operators submit the Network Data for an alternate line and the values are not identical, the PMB detects a mismatch between the CZC values submitted by the two VBs for the shared alternate line. A pop-up with the indication of the values that do not match is displayed in all PMBs and the status field is set to “” in the Cross Check detail screen.

In this situation, the involved IDA NEMO Operators will inform the IDA Coordinator as soon as possible and follow their local procedures in order to solve the issue.

a.1) Main solution (available for all the VBs):

The IDA NEMO Operator that sent the wrong CZC values needs to correct the Network Data file and resend it to the PMB.

Once the corrected Network Data file with a higher version number is uploaded in the PMB, the cross-check validation is automatically performed.

If the CZC values for the cross-checked line are identical, the status field is set to “Validated”. In this case, the IDA Session continues as normal.

If the CZC values for the cross-checked line are still different, the pop-up indicating the different values is displayed in all PMBs. An IC is triggered at Target Time at the latest, according to procedure SIDC_JOINT_FAL_01. The involved IDA NEMO Operators will analyse the possibility to apply one of the following workarounds.

a.2) First workaround:

The concerned IDA NEMO Operator needs to ensure that they are using the last updated Network Data file created and delivered by IDA CIP Tool. If the concerned IDA NEMO Operator still cannot provide a Network Data with correct values, the two involved IDA NEMO Operators have to agree if the IDA Session can continue with a single CZC submission for that line.

If this decision is taken, the concerned IDA NEMO Operator needs to submit to the PMB a Network Data file with no values () for the concerned alternate line. If no decision is taken before OBK GCT+6' + ND and OD time extension, proceed to Risk Case 7.

The “ ” status changes to “ ” and the “ ” button becomes available.

If not already open, the IDA Coordinator starts an Incident Committee in order to coordinate all the IDA NEMO Operators to ignore the alert for the concerned alternate line. This action is needed in order to be able to continue with the IDA Session (Cross Check detail screen -> click on Ignore button).

Remarks!

If the “Failed” status persists because the IDA NEMO Operator is not able to provide the correct values by OBK GCT+6 + ND and OD time extension, the IDA session will be cancelled according to IDA_JOINT_EXC_03.

b) Network Data submitted by only one of the two VBs (Cross-check status: “Alert”)

For an alternate line, it is sufficient that only one of the two responsible NEMO has uploaded Network Data to the PMB, for the calculation to start.

As soon as one of the two VBs responsible for an alternate line has submitted the Network Data containing values for the concerned cross-checked line, the PMB will display an “Alert” status as warning.

This status changes as soon as the second VB sends its Network Data file with values for the concerned alternate line.

Depending on the situation, the status can either change to “Validated” (if the CZC values are identical) and the MCS can continue as normal or it can change to “Failed” (if the CZC values are different) and the Case 2.3.a) has to be followed.

At Target Time at the latest, if the “Alert” status persists for any of the alternate lines in the Cross Check detail screen, an IC is triggered according to procedure SIDC_JOINT_FAL_01 and one of the following solutions needs to be decided:

b.1) The involved IDA Operator sends the Network Data file containing the CZCs for the alternate line and the Market Coupling Session continues as normal.

b.2) The involved IDA Operator indicates that it will not send the CZC values for the alternate line because the other PMB Operator responsible for that line has already successfully sent them.

In this case, all PMBs will ignore the alert for the concerned alternate line in order to be able to continue with the Market Coupling Session (Cross Check detail screen -> click on Ignore button).

2.4. Validation issues related to Decoupling line (“Failed” status)

In case two or more IDA NEMO Operators submit Network Data for a Decoupling line and the values are not identical, the PMB displays a “Failed” status in the Cross Check detail screen.

All the solutions that are applicable for the Alternate lines are also applicable for the Decoupling line. Therefore, the solutions listed in Case 2.3.a will be used for solving the Network Data mismatch for the Decoupling line.

Case 3: Problem in distributing Network Data to the Cloud

The different problems that could occur in the process of distributing the Network Data to the Cloud are the following:

1.1. Network Data cannot be distributed to all the other PMBs. As soon as the problem occurs, the following steps have to be performed:

- The involved IDA NEMO Operator checks in the Local PMB if the other PMBs are connected (in the “Check Communication Lines” window). If the involved IDA NEMO Operator is the only one disconnected, it has to follow a local procedure in order to solve the issue.
- If all other PMBs are disconnected, the involved IDA NEMO Operator checks the connection (see procedure IDA_NEMO_OTH_05) in order to solve the problem. If the issue is still not solved, the involved IDA NEMO Operator has to follow a local procedure in order to solve it.
- The involved IDA NEMO Operator tries to resend its Network Data file through its Local PMB;
- At Target Time at the latest, if the Local PMB is not connected to the Cloud and the Network Data have still not been distributed to the Cloud, the involved IDA NEMO Operator calls the IDA Coordinator in order to inform him about the problem and request an IC. If the involved IDA NEMO Operator is the IDA Coordinator, at Target Time at the latest, the PMB Backup Coordinator will take the IDA Coordinator role according to procedure IDA_NEMO_OPE_01.
- The IDA Coordinator starts an Incident Call according to SIDC_JOINT_FAL_01.
- The involved IDA NEMO Operator downloads the Network Data file from the Local PMB and provides it to the IDA Coordinator in backup mode, according to the IDA_NEMO_OPE_06 procedure.
- The IDA Coordinator provides the files of the other IDA NEMO Operators to the offline IDA NEMO Operator in backup mode, according to the IDA_NEMO_OPE_06 procedure.

- In the Incident Call, if the involved IDA NEMO Operator is still offline, the IDA NEMO Operator downloads the files from the NEMO [REDACTED] and uploads them manually in their PMB.
- In the Operational Call, if the involved IDA NEMO Operator is back online, all IDA NEMO Operators coordinate to resend their Network Data files via the PMB.
- The Incident Call is closed as soon as all IDA NEMO Operators have integrated all the Network Data files.

Remark!

- If, at OBK GCT+6', the Local PMB is still out of the Cloud and Network Data still missing in the coordinator PMB, follow risk case 7.

1.1. Network Data cannot be distributed to some PMBs. As soon as the problem occurs, the following steps have to be performed:

- The involved IDA NEMO Operator checks in the Local PMB if the other PMBs are connected in the “Check Communication Lines” window. If the involved IDA NEMO Operator is the only one disconnected, it has to follow a local procedure in order to solve the issue.
- The involved IDA NEMO Operator tries to resend the Network Data file to the PMB that has not received it through its Local PMB.
- At Target Time at the latest, if the resend functionality did not work, the involved IDA NEMO Operator has to contact the IDA Coordinator.
- If the IDA Coordinator did not receive the Network Data file, the involved IDA NEMO Operator will download the file from the Local PMB and will provide it to the IDA Coordinator in backup mode, according to the IDA_NEMO_OPE_06 procedure.
- If the IDA Coordinator received the Network Data file, the IDA Coordinator will provide it in backup mode to the IDA NEMO Operator that did not receive it.
- If, at OBK GCT, the Local PMB is still out of the Cloud and Network Data still missing in one or more PMBs, an IC will be launched according to SIDC_JOINT_FAL_01. Backup measures will continue to be applied in order to solve the issue.

Case 4: Problem in receiving the Network Data from other PMBs.

The different problems that could occur in the process of receiving the Network Data from the Cloud are the following:

4.1. IDA Coordinator has not received some Network Data at Target Time

If the IDA Coordinator still misses some Network Data or if the Network Data file is incomplete at Target Time, the following PMB notification appears: “Network Data Completeness Check has not been finished correctly” with the indication of the lines for which data is missing; a pop-up with the same information is also displayed. As soon as the problem occurs, the following steps should be performed:

- The IDA Coordinator checks if the other PMBs are connected. If all the other PMBs are connected and only the IDA Coordinator is disconnected from the Cloud, the IDA Coordinator switch is performed after triggering an IC according to procedure IDA_NEMO_OPE_01.
- Otherwise, (if no information has been received from the involved IDA NEMO Operator), the IDA Coordinator calls immediately the involved IDA NEMO Operator and asks to resend the file.

If this step fails, the involved IDA NEMO Operator should provide the file in backup mode to the IDA Coordinator according to the IDA_NEMO_OPE_06 procedure and the IDA Coordinator will upload it in the PMB.

As a general principle, the involved IDA NEMO Operator should call the IDA Coordinator to inform about the problem at Target Time latest (see Case 3).

4.2. IDA Non-Coordinator is missing some Network Data at Target Time

If an IDA NEMO Non-Coordinator still misses some Network Data or if the Network Data file is incomplete at Target Time, the following PMB notification appears: “Network Data Completeness Check has not been finished correctly” with the indication of the lines for which data is missing; a pop-up with the same information is also displayed. The IDA NEMO Operator follows the following steps:

- Check if the PMB is connected to the Cloud (“Check Communication Lines” window).
- At GTC, call the IDA Coordinator in order to notify him about the problem (this incident should have already been communicated by the involved IDA NEMO Operator in any of the Cases previously described).

The IDA Coordinator has to analyse the problem:

- If the problem is only related to that file, the IDA Coordinator calls the involved IDA NEMO Operator in order to ask him to resend the file. If the file is still not received, the IDA Coordinator provides the file in backup mode to the related IDA NEMO Operator according to the IDA_NEMO_OPE_06 procedure.
- If the problem is due to the fact that the sending PMB is disconnected from the Cloud, the IDA Coordinator contacts the related IDA NEMO Operator in order to solve the communication issue.

Case 5: New version of Network Data sent to the Cloud has different values.

5.1. Update of the Network Data for any line except the cross-checked lines

If a new version of Network Data file is sent to the Local PMB and if the file passes all the validations, it will be distributed to the Cloud and replace the previous version. All PMBs will automatically receive a notification. The calculation process will always take the highest valid version of Network Data file of each PMB.

In case a new version of Network Data file is sent to the Local PMB and the file is not valid, an error message will appear in the Local PMB and the file will not be distributed to the Cloud.

The involved IDA NEMO Operator follows a local procedure in order to solve the problem and sends the correct Network Data file with a higher version number in order to be distributed to the Cloud and to be considered by all PMBs as the last valid version of Network Data to be used in the calculation process.

5.2. Update of the Network Data for a cross-checked line (before PMB matching)

If only one of the two responsible IDA NEMO Operator(s) has submitted the Network Data file for a cross-checked line and the CZC values need to be updated, this can be done without impact to the IDA Session.

In case a new version of Network Data file is sent to the Local PMB and the file is not valid, an error message will appear in the Local PMB and the file will not be distributed to the Cloud.

The IDA NEMO Operator needs to send a higher version number of the Network Data file and the IDA Session continues as normal.

If the second involved IDA NEMO Operator cannot provide the correct updated CZC values, Case 2.3.b needs to be followed. If no solution is found before OBK GCT+6' + ND and OD time extension, the relevant VB(s) will be declared partially decoupled according to IDA_NEMO_EXC_02.

5.3 Update of the Network Data for a cross-checked line (after PMB matching)

If the CZC values for a cross-checked line need to be updated after having been matched in the PMB, the PMB cross-check validation will be reinitialised.

As soon as one of the involved IDA NEMO Operators sends the updated Network Data file, the PMB will display the “Failed” status to warn about the fact that different CZC values have been submitted for the same cross-checked line.

The other involved IDA NEMO Operator needs to send the correct updated Network Data file. If the values are identical, the PMB will change the status from “Failed” to “Validated” and the IDA Session continues as normal.

The IDA Coordinator will start an IC if the “Failed” status persists at Target Time for receiving Network Data from IDA CIP Tool.

If the other IDA NEMO Operator cannot provide the correct updated values and if the “Alert” or “Failed” status persists at Target Time, an IC is triggered and the solutions described in Case 2.3 have to be followed.

Case 6: Network Data still missing or invalid in the PMB at Target Time (OBK GCT)

If a Network Data is still missing or invalid at Target time the IDA Coordinator triggers an Incident Committee according to SIDC_JOINT_FAL_01 procedure.

6.1 IDA Coordinator still missing a valid Network Data at Target Time

At Target Time (the Latest Time to Start an IC for Network Data reasons), if the IDA Coordinator is still missing some Network Data files or if the status of some Network Data is either “Alert” or “Failed”, an Incident Committee needs to be initiated according to procedure SIDC_JOINT_FAL_01.

If the missing or invalid Network Data file involves a cross-checked line, Case 2.3 needs to be followed.

The involved IDA NEMO Operator needs to submit the missing/ correct Network Data file to the PMB before deadline for Partial Decoupling or cancelation if the issue is global (risk case 7).

If needed, the concerned IDA NEMO Operator(s) will follow the related backup actions in order to solve the issue: manual upload in the Local PMB or providing the file to the IDA Coordinator in backup mode, according to the IDA_NEMO_OPE_06 procedure.

If feasible, and if the back-up coordinator has received all network data in its local PMB, perform the coordinator switch according to IDA_NEMO_OPE_01.

6.2 IDA Non-Coordinator still missing some Network Data at Target Time

The IDA NEMO Operator missing some Network Data calls the IDA Coordinator in order to inform him about the problem. The IDA Coordinator starts immediately an Incident Committee according to SIDC_JOINT_FAL_01 in order to analyse the problem.

If the problem is only related to that file, the IDA NEMO Operator whose Network Data is not received resends the file by using the Local PMB.

If this fails, the IDA Coordinator downloads the Network Data from the PMB and provides it in backup mode to the IDA NEMO Operator missing the Network Data, according to the IDA_NEMO_OPE_06 procedure.

At OBK GCT+6', if the problem is still not solved the concerned IDA NEMO Operator will need to skip the Shadow Calculation in order to ensure that the Preliminary Confirmation will be received by the Cloud before the PMB Target Time, according to procedure IDA_NOR_06.

Case 7: Network Data still missing or invalid in the IDA Coordinator at OBK GCT+6'

At OBK GCT+6'+ND and OD time extension (the partial decoupling or Cancellation deadline):

- if some Network Data is still missing in the IDA Coordinator PMB, Partial Decoupling should be followed according to IDA_JOINT_EXC_02
- if some or all Network Data is invalid in the IDA Coordinator PMB, an IC should already be triggered (SIDC_JOINT_FAL_01) and the IDA session will be declared cancelled according to IDA_JOINT_EXC_03.

Remark for the VB containing only cross-checked lines:

If the Network Data for a VB containing only Cross-checked lines is missing at OBK GCT+6' and the decision of single side submission has been previously agreed between the counterpart IDA NEMO Operators, the concerned VB will not be decoupled, and the IDA Session will continue as usual.

Case 8: Network Data step not marked as Completed in the PMB

At OBK GCT+6'+ ND and OD time extension, if all the Network Data files are in the PMB but the Network Data step is not automatically set to Completed, the backup solution is the following:

- The PMB is switched to Manual Mode.
- The Network Data step is manually set to Completed by clicking the corresponding button.
- The PMB is switched back to Automatic Mode.

If the IDA Coordinator encounters this issue and the backup solution mentioned above does not solve the issue, an IC is immediately triggered according to SIDC_JOINT_FAL_01. If the issue persists after applying this solution, the PMB Backup Coordinator takes over the IDA Coordinator role according to IDA_NEMO_OPE_01.

If more PMBs have this issue, during the IC, the IDA Coordinator will coordinate all the IDA NEMO Operators for applying the above-mentioned solution.

If this measure does not solve the issue, the IDA cancellation is performed according to IDA cancellation procedure IDA_JOINT_EXC_03.

Case 9: Only one version of Network Data is available in PMB at target time for one or more NEMOs

If only the one version of the Network Data file is available in PMB at Target Time, the IDA coordinator raises an IC according to SIDC_JOINT_FAL_01.

[Redacted]

[Redacted]

[Redacted]

2.4. Incident investigation management

At the end of each day on which an incident occurs, the IDA Coordinator is responsible for sending a detailed Incident Report to all the parties, as described in the procedure SIDC_JOINT_FAL_01, and for providing this report to the OPSCOM.

2.5. Operational manual reference

See section Upload Files in the Operational Manual (User Guide provided by [Redacted])