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1. Introduction

As soon as the PMB calculation has finished, the IDA Coordinator automatically sends the Market Coupling Results to all the PMBs via the Cloud.

In case of a technical problem in the PMB or a problem with the automatic sending of the Results file, the IDA NEMO Operator will apply the relevant backup solutions as described in this document.

1.1. Purpose

The purpose of this procedure is to describe the applicable backup solutions in case of a problem with the sharing of the results from the IDA Coordinator to all the IDA NEMO Operators.

This procedure also describes how to handle a warning message produced by the PMB and linked to the sharing of the Results file.

1.2. Governed / Regulated by

- All NEMO Intraday Operational Agreement
- Intraday Auctions – Detailed design
- Intraday Auctions Implementation HLC

1.3. Associated procedures

- IDA_NEMO_NOR_09_Calculating IDA results
- IDA_NEMO_NOR_10_Results sharing and receiving
- IDA_NEMO_OPE_01-PMB Coordinator Switch
- IDA_NEMO_OPE_06-Exchanging Files in Backup Mode
- IDA_NEMO_OTH_05- Incident Management
- IDA_JOINT_FAL_01 - Incident Management

2. Procedure

2.1. General overview

This backup procedure must be done by all IDA NEMO Operators in case of a problem in sending or reception of the results. The Target Time indicated in the table is the latest time by which the IDA NEMO Operator has to start performing a backup action. The IDA Cancellation Time indicated in the table is the latest time by which the Incident Committee has to declare the IDA Cancellation.

Case	Results Sharing Issue description	Target Time	Latest time to start IC	IDA Cancellation	PMB Message ID	Procedures involved
1	Problem in distributing the Results from IDA Coordinator PMB to the Cloud.	OBK GCT + 11	OBK GCT + 11	OBK GCT + 20 ¹ +10 contingency during interim period	MR10	OPE_06 EXC_06 OPE_01 FAL_01
2	Problem in receiving the IDA Coordinator Results from the Cloud in the Local PMBs.	OBK GCT + 11	OBK GCT + 11	OBK GCT + 20+10 contingency during interim period	N11	OPE_06 OPE_01 FAL_01
3	Problem in sending the IDA Coordinator Results file from the Local PMB to the Local NEMO IT System.	OBK GCT + 12	OBK GCT + 12	OBK GCT + 20+10 contingency during interim period	MR20	-
4	Problem in sending the Shadow Results file from the Local PMB to the Local NEMO IT System.	-	-	-	-	-

2.2. Process clarification

As a general guideline, the backup procedure has to be applied as soon as an incident occurs. If the incident is not solved by the Target Time, the IDA Coordinator has to be informed (according to procedure IDA_NEMO_OTH_01 IDA Calls) and an Incident Committee has to be started at OBK GCT+11 at the latest (according to procedure IDA_JOINT_FAL_01 - Incident Management). **In this case the participation is mandatory only for** [REDACTED]

Case 1: Problem in distributing the Results from the IDA Coordinator PMB to the Cloud

As soon as the Results are available in the IDA Coordinator PMB, in a normal situation they are automatically sent to the Cloud.

If the Results file cannot be distributed to all other or some PMBs, the following steps should be performed:

- a. If the IDA Coordinator indicates a problem in distributing the Results file to the Broker, the IDA Coordinator re-launches the sending of the Results by using the Local PMB.
- b. If the re-send functionality does not solve the issue, the IDA Coordinator immediately starts an Incident Committee according to IDA_JOINT_FAL_01.

If this is technically possible, the IDA Coordinator downloads the Results file from the Local PMB (from the Results Calculation Process screen) and provides it in backup mode according to the IDA_NEMO_OPE_06 procedure.

¹ Latest time to declare IDA cancellation = GCT + 20 min (positive GFC deadline) + 10 min (for contingency: **temporary** only for limited time after the GL)

In the IC, a check of the communications lines is performed by each IDA NEMO Operators. Depending on the situation, the following solutions will be applied:

- **If the IDA Coordinator PMB is completely down:**
 - A nemo which has already received the results from IDA coordinator provides results to a nemo who hasn't (to be established during IC) via back up mode
 - The nemo who has received the results from previous point uploads them via MR10 (sharing the results to all PMBs. There will be some error for NEMOs who have already received the results from coordinator)
 - Back Up IDA coordinator takes coordinator role
- **If the IDA Coordinator PMB is offline but still functional,** the IDA Coordinator downloads the Results file for the concerned VB and provides it in backup mode according to the IDA_NEMO_OPE_06 procedure. As soon as all the IDA NEMO Operators confirm the integration of the Results file in their PMBs and all the IDA NEMO Operators are in the Preliminary Confirmation step, the IDA Backup Coordinator takes over the IDA Coordinator role. This is needed in order to prevent the new Coordinator from distributing the Results of its own Shadow Calculation to the Cloud.
- **If all PMBs are disconnected (offline),** the ██████ procedure needs to be followed (IDA_NEMO_OTH_05), as well as local procedures for communications issues.

Case 2: Problem in receiving the IDA Coordinator Results from the Cloud in Local PMB

If the Local PMB has not received the Results file by the PMB Target Time, the notification "*PMB does not have Results from Broker coordinator*" (N11) appears in the Local PMB and the following steps have to be performed:

- a. The involved IDA NEMO Operator has to contact the IDA Coordinator by phone in order to inform him about the problem. In parallel, the involved IDA NEMO Operator checks if the Local PMB is connected to the Cloud (from the "*check communications line*" window). If yes, the IDA Coordinator resends the Results file from the Local PMB to the involved IDA NEMO Operators.
- b. If this does not solve the issue, the IDA Coordinator downloads the Results file corresponding to the concerned Virtual Broker and provides it in backup mode according to the IDA_NEMO_OPE_06 procedure.

The involved IDA NEMO Operator uploads this file manually into the Local PMB or, if the Local PMB is not available, in the Local NEMO IT System.

Case 3: Problem in sending the IDA Coordinator Results to the Local NEMO IT System

The different problems that could occur in the process of receiving the IDA Coordinator Results from its Local PMB in the Local NEMO IT System are the following:

- a. **The connection between the Local PMB and the Local NEMO IT System is down:**

If the connection between the Local PMB and the Local NEMO IT System is down and the IDA Coordinator Results file has still not been received in the Local NEMO IT System, the IDA NEMO Operator will download the file from the Local PMB and upload it manually in the Local NEMO IT System.

If this does not work, the involved IDA NEMO Operator calls the IDA Coordinator in order to inform him about the problem and asks him to provide the Result file in backup mode, according to the IDA_NEMO_OPE_06 procedure.

The involved IDA NEMO Operator follows a local procedure in order to solve its issue and to ensure the upload of the file in the Local NEMO IT System.

b. The Local NEMO IT System is down:

If the Local NEMO IT System is down, the involved IDA NEMO Operator calls the IDA Coordinator in order to inform him about the problem and to request an Incident Committee.

The IDA Coordinator starts an Incident Committee as soon as possible, according to procedure IDA_JOINT_FAL_01.

In parallel, the involved IDA NEMO Operator follows a local procedure in order to integrate the Results file in the Local NEMO IT System.

Case 4: Problem in sending the Shadow Results from the Local PMB to the Local NEMO IT System

If the Shadow Results file cannot be received in the Local NEMO IT System, the IDA NEMO Operator will download the file from the Local PMB and upload it manually in the Local NEMO IT System.

If the Shadow Calculation encounters issues or is delayed, in order not to delay the reception of the IDA Coordinator Results, the IDA NEMO Operator has to press the [REDACTED] button in order to stop the Shadow Calculation and receive the IDA Coordinator Results in the Local NEMO IT System.

2.3. 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 IDA_JOINT_FAL_01, and for providing this report to the OPSCOM.

2.4. Operational manual reference

See chapter Results Sharing in the Operational Manual (User Guide provided by [REDACTED])