

IDA_NEMO_NOR_10: Results Sharing and Receiving

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Previous versions

Version	Date	Author	Summary of changes
0.1	/06/2022	██████	First draft
0.2	/07/2023	██████	Review
1.0	03/09/2024	PWG	RFC: T9 parameter change - Table 1: step 1 Start Time changed to ASAP

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1. Introduction

This procedure describes the sub-process of sharing the results after the calculation is finished.

1.1. Summary

The purpose of this procedure is to describe how the results are shared among the IDA NEMO operators. The IDA Coordinator has the results after the calculation is finished. The IDA Coordinator will distribute the results to the Cloud. All PMBs provide the results to their own Local NEMO IT system/s. In case of the shadow calculation, these results should also be sent to their own IT system/s.

1.2. Governed / Regulated by

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

1.3. Associated Procedures

- **In normal situation:**
 - o IDA_NEMO_NOR_09_Calculating IDA results: Calculation Process. This process must have been successfully completed.
 - o IDA_NEMO_NOR_12-Preliminary Confirmation of the Results: Preliminary Confirmation of the Results. When IDA_NEMO_NOR_10 has passed successfully, the system automatically proceeds to the next step: Preliminary Confirmation of the Result.
- **In backup situation:** as soon as an event happens that prevents the normal performance of the IDA_NEMO_NOR_10-Results Sharing and Receiving process, the IDA NEMO operators refer to IDA_NEMO_BUP_10-Results Sharing and Receiving.
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2. Procedure

2.1. Preconditions to start

The precondition to start this process is the successful completion of procedure *IDA_NEMO_NOR_09_Calculating IDA results*, in which the calculation has successfully ended and the results are known.

2.2. General overview

Steps	Description: Results sharing in PMB dashboard	Start Time	Target Time	Message ID	From	To	C	BC	NC
1	Result sharing starts when the Calculation sub-process is completed.	ASAP after Calculation	-						

		process is finished							
2	IDA Coordinator automatically receives the results from its Algorithm.	-	-						
3	IDA Coordinator sends the results to the Cloud.	-	-	MR10		Cloud			
4	Local PMB receives the results from the Cloud.	-	-	MR10					
5	Local PMB sends the results to the Local NEMOs IT system/s.	-	-	MR20		IDA NEMO Operator			
6	Local PMB sends the shadow results to the Local NEMOs IT system/s.	-	-	MR30		IDA NEMO Operator			Opt
7	When step 3 and 4 are finished, sub-process ends.	-	1 minute from the start						

	IDA NEMO Operator interaction
	Without IDA NEMO Operator interaction
	This role cannot execute it
Opt	Optional for each IDA Non Coordinator
C	IDA Coordinator
BC	IDA Backup Coordinator
NC	IDA Non Coordinator (IDA NEMO Operator)

2.3. Process clarification

1. The process starts as soon as the process Calculation (*IDA_NEMO_NOR_09*) ends. For the PMBs that are not running the algorithm calculation, this process starts when *IDA_NEMO_NOR_07* and *IDA_NEMO_NOR_08* are successfully ended. This can be verified on the dashboard: the status of Result Sharing process becomes “XXXXXXXXXX”. From this moment, the PMB is ready to receive the IDA Coordinator’s results.
2. The IDA Coordinator automatically recovers the calculation results from the Algorithm tables and creates 1 message (1 XML file).
3. The IDA Coordinator distributes the XML result file to the Cloud through the message XXXXXXXXXX; a message is sent to every PMB in the Cloud. The outcome of the sending of the IDA Coordinator’s results is shown in the *Sent Results* detail in the right part of the PMB screen: the status is set to XXXXXXXXXX”.
4. Each local PMB receives the results from the Cloud and integrates them. If the curtailment is reached, a notification will appear in the PMB.
5. Each PMB sends the IDA Coordinator’s results to all its own NEMO Systems through the message XXXXXXXXXX. The outcome of the sending of the IDA Coordinator’s results to the Local NEMO IT system is shown in the XXXXXXXXXX detail in the right part of the PMB screen (“XXXXXXXXXX” line): the status is set to “XXXXXXXXXX”.
6. Each PMB that has run the shadow calculation sends the shadow results to all its own NEMO Systems through the message XXXXXXXXXX. The outcome of the sending of the shadow results to the

local system is shown in the [REDACTED] detail in the right part of the PMB screen (“[REDACTED]” line): the status is set to “[REDACTED]”.

7. When step 5 and step 6 (step 6 only for those PMBs that have shadow calculation enabled) are successfully finished, the sub-process ends: the status of the Result sharing process changes to “[REDACTED]”. The next sub-process - IDA_NEMO_NOR_12-Preliminary Confirmation of the Results - starts.

2.4. Conditions reached before starting next process

The final state to start the next process is the fact that all the NEMO systems have the results they expect (the PMB Coordinator’s and optionally the shadow one). Each Operational NEMO can start with the analysis of the results.

2.5. Operational Manual Reference

See chapter Results Sharing in the Operational Manual (user guide provided by [REDACTED])

2.6. Risk Cases

The following table lists all the risk cases associated to the normal processes involved in this procedure, along with the references to the backup procedures to be used for each of the risks. All these risks and their related solutions are detailed in the backup procedures.

Table 1 – Risk Cases associated to the normal results sharing and receiving

#	Risk Cases	Mitigation procedures
1	Problem in distributing the Results from the IDA Coordinator PMB to the Cloud.	IDA_NEMO_BUP_10
2	Problem in receiving the IDA Coordinator Results from the Cloud in Local PMB	IDA_NEMO_BUP_10
3	Problem in sending the IDA Coordinator Results to the Local NEMO IT system	IDA_NEMO_BUP_10
4	Problem in sending the Shadow Results file from the Local PMB to the Local NEMO IT system.	IDA_NEMO_BUP_10