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## 1. Introduction

Each day, for each IDA sessions, the PMB Market Coupling Session (MCS) is starting at the defined Start Time written in the PMB Shared Configuration File.

Right after, the Market Coupling Session starts and the Configuration Synchronization process commences. This process checks whether all the PMBs taking part in the Market Coupling Session have the same Shared Configuration.

### 1.1. Purpose

This backup procedure will be applied in case there are problems with:

- Starting the Market Coupling Session of an IDA;
- The exchange of the Shared Configuration Files between the [REDACTED] connected to the Cloud;
- The difference between [REDACTED] in terms of the Shared Configuration File, the current [REDACTED], the [REDACTED] version, the Algorithm version or the Delivery Date.

### 1.2. Governed / Regulated by

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

### 1.3. Associated procedures

- IDA\_NEMO\_NOR\_06: Configuration Synchronization
- IDA\_NEMO\_EXC\_01: Abort and Restart of the Market Coupling Session
- IDA\_NEMO\_OPE\_01: Coordinator and Backup Coordinator Switch
- IDA\_NEMO\_EXC\_04: Connection Issues
- IDA\_NEMO\_OTH\_05: MPLS Incident Management
- IDA\_NEMO\_OPE\_03: SCF Distribution and Activation
- IDA\_NEMO\_OTH\_01 - IDA Calls
- IDA\_NEMO\_EXC\_03 – Disaster Recovery Site
- IDA\_NEMO\_OPE\_06-Exchanging Files
- IDA\_NEMO\_EXC\_02-Partial Decoupling

## 2. Procedure

### 2.1. General overview

This backup procedure will be executed by all IDA [REDACTED] in case of a problem in starting the Market Coupling Session or in the [REDACTED] process.

The Target Time indicated in the table is the Latest Time by which the [REDACTED] has to start performing a backup procedure.

Case	Configuration Synchronization Issue description	Target Time	Latest time to start IC	Message ID	Procedures involved
1	Problem in starting the Market Coupling Session.	IDA1 13:32 D-1 IDA2 19:02 D-1 IDA3 8:32 D	IDA1 14:00 D-1 IDA2 19:30 D-1 IDA3 9:00 D	-	EXC_01 EXC_04 OTH_01
2	Problem in starting the Configuration Synchronization process.	IDA1 13:32 D-1 IDA2 19:02 D-1 IDA3 8:32 D	IDA1 14:00 D-1 IDA2 19:30 D-1 IDA3 9:00 D		EXC_01 EXC_04 OPE_06 OPE_01
3	The Configuration Synchronization step cannot be completed (one or more PMBs offline).	IDA1 13:32 D-1 IDA2 19:02 D-1 IDA3 8:32 D	IDA1 14:00 D-1 IDA2 19:30 D-1 IDA3 9:00 D	MC30 MC40 /N2	FAL_01 OPE_01 OTH_05
4	Configuration Synchronization indicates differences.	IDA1 13:32 D-1 IDA2 19:02 D-1 IDA3 8:32 D	IDA1 14:00 D-1 IDA2 19:30 D-1 IDA3 9:00 D	N30	EXC_01 FAL_01 EXC_02 OPE_01 EXC_03

## 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 [REDACTED] has to be informed according to IDA\_NEMO\_OTH\_01 – IDA Calls procedure and **an Incident Committee has to be started at Latest time to start IC at the latest**, according to procedure IDA\_JOINT\_FAL\_01 - Incident Management. **In this case the participation is mandatory only for [REDACTED] and [REDACTED]**

### Case 1: Problem in starting the Market Coupling Session

If the Market Coupling Session is not starting at the Start Time indicated in the Shared Configuration File (the session is not created or remains in pending state), the [REDACTED] has to abort the session (if it has been created) and restart a new one (if in pending state), according to procedure IDA\_NEMO\_EXC\_01 Abort and Restart of the Market Coupling Session.

If the above actions do not solve the problem, the relevant [REDACTED] will perform the restart of its local [REDACTED] according to procedure IDA\_NEMO\_EXC\_04 Connection Issues and create a new MCS according to procedure IDA\_NEMO\_EXC\_01 Abort and Restart of the Market Coupling Session.

If none of the backup solutions is solving the problem before the Target Time, the [REDACTED] has to be informed.

If none of the backup solutions is solving the problem before the Latest Time to start IC, the [REDACTED] will trigger an IC and invite the PMB provider to solve the problem according to procedure IDA\_NEMO\_EXC\_04 Connection Issues.

If the [REDACTED] is the one who has the problem, the Local IT department of the relevant IDA NEMO Operator will try to restart the server. If they cannot solve the problem, then the IDA Backup Coordinator has to take over the [REDACTED] role, according to procedure IDA\_NEMO\_OPE\_01 – IDA Coordinator Switch.

## Case 2: Problem in starting the Configuration Synchronization process

If the Configuration Synchronization process is not starting at the Start Time defined in the shared Configuration file, the [REDACTED] switches the [REDACTED] to manual mode in order to start the Configuration Synchronization process manually.

If the manual start of the process does not solve the problem, the relevant [REDACTED] will perform the restart of its local PMB according IDA\_NEMO\_EXC\_04 Connection Issues and create a new session according to procedure IDA\_NEMO\_EXC\_01 Abort and Restart of the Market Coupling Session.

If none of the backup solution is solving the problem until the Target Time, [REDACTED] has to be informed.

If none of the backup solution is solving the problem until the Latest Time to start [REDACTED], the [REDACTED] will trigger an IC and invite the [REDACTED] provider to solve the problem according to procedure IDA\_NEMO\_EXC\_04 Connection Issues.

If the issue cannot be solved, the relevant [REDACTED] continues the Market Coupling session in backup mode, by sending and receiving files according to the IDA\_NEMO\_OPE\_06-Exchanging Files in Backup Mode procedure.

If the issue persists at OBK GCT-15, the [REDACTED] requests all [REDACTED] Operators to switch their [REDACTED] to Manual Mode in order to skip the Shared Configuration process. Once the Shared Configuration process is completed, all [REDACTED] are switch back to [REDACTED].

If the [REDACTED] is the one who has the problem and if the problem cannot be solved before OBK GCT-15, then the IDA Backup Coordinator has to take over the IDA Coordinator role according to the IDA\_NEMO\_OPE\_01 – IDA Coordinator Switch procedure.

**Important remark:** The [REDACTED] for which the Shared Configuration cannot be compared with the others will no longer be able to be [REDACTED] or IDA Backup Coordinator during the whole Market Coupling Session.

## Case 3: The Configuration Synchronization step cannot be completed (one or more PMBs offline)

If the Configuration Synchronization step is not completed before OBK GCT-15, the [REDACTED] checks the [REDACTED] in the Local [REDACTED]

### **Case 3a: If all [REDACTED] are Offline (as seen from the Local [REDACTED])**

If the [REDACTED] notices in the Local [REDACTED] that all the [REDACTED] are Offline (the Configuration Synchronization panel displays an empty line for each of the other [REDACTED]), the involved IDA NEMO Operator checks the MPLS connection, according to the IDA\_NEMO\_OTH\_05 [REDACTED] Incident Management procedure, in order to solve the problem.

If the issue is still not solved, the involved [REDACTED] has to follow a local procedure in order to solve the problem with its [REDACTED].

If the problem is not solved internally and the [REDACTED] is not working, the involved [REDACTED] informs the [REDACTED]. The IDA Coordinator will contact the [REDACTED] according to the IDA\_NEMO\_OTH\_05 MPLS Incident Management procedure and will start an [REDACTED] according to the IDA\_JOINT\_FAL\_01 procedure.

If only one [REDACTED] or all of the [REDACTED] are disconnected from the [REDACTED] and if the issue persists at OBK GCT-15, the following steps will be performed:

- If the [REDACTED] is the one who is disconnected from the Cloud, then the [REDACTED] has to take over the [REDACTED], according to the IDA\_NEMO\_OPE\_01 – IDA Coordinator Switch procedure;
- The [REDACTED] will ask for confirmation from all [REDACTED] in the Incident Committee if all the [REDACTED] have the same SCF activated (comparing the SCF from the Local [REDACTED] with the IDA Coordinator's SCF shown in the shared Coordinator screen);
- The [REDACTED] will coordinate every [REDACTED] to go to [REDACTED] and skip the [REDACTED] step in the Local [REDACTED];
- All IDA NEMO Operators will go back to [REDACTED] and confirm that the [REDACTED] are activated;
- The Market Coupling Session will be continued by exchanging files [REDACTED], according to the Backup procedures.

**Remark:** If the [REDACTED] is restored for all [REDACTED], at any time during the Market Coupling Session, the MCS will be continued in Automatic mode and normal procedures will be followed from that point on. At the time when the [REDACTED] is restored, the [REDACTED] shall perform a Shared Configuration Check. If not all [REDACTED] are online, Case 3b will be followed.

***Case 3b: If one or more PMBs are Offline and the Configuration Synchronization step displays an empty line***

If one [REDACTED], the [REDACTED] will display an empty line for the concerned [REDACTED].

As soon as the issue occur, a [REDACTED] will be triggered between the [REDACTED] and the relevant [REDACTED].

If the issue is still not solved at the Latest time to start an [REDACTED], an Incident Committee will be triggered according to IDA\_JOINT\_FAL\_01 procedure.

**a) If the concerned [REDACTED] becomes Online before OBK GCT-15**

In order to check that the concerned [REDACTED] has become Online, all [REDACTED] will perform a [REDACTED] from the [REDACTED] menu and a check of the Communication Lines.

If the concerned [REDACTED] is Online, all IDA NEMO Operators should switch to [REDACTED], stop the Configuration Synchronization step and then start the Configuration Synchronization step (by using the play button). The Configuration Synchronization step should become [REDACTED].

All [REDACTED] should go back to [REDACTED] mode and confirm that the [REDACTED]

In case the [REDACTED] do not go to Active mode automatically, the [REDACTED] will switch to [REDACTED] mode and activate the steps manually (by using

the play button). Once both steps are [REDACTED] the [REDACTED] will switch the [REDACTED] back to [REDACTED] mode.

**[REDACTED] If the concerned [REDACTED] does not become Online until OBK GCT-15**

At OBK GCT-15, all [REDACTED] will perform a Shared Configuration Check from the [REDACTED] menu and a check of the [REDACTED].

If all [REDACTED] have the same results (empty line in the [REDACTED] [REDACTED] panel) and see the concerned [REDACTED] as Offline, all [REDACTED] should go to [REDACTED] mode and skip the Configuration Synchronization step (by using the skip button). The Configuration Synchronization step should become [REDACTED].

All [REDACTED] will then go back to Automatic mode and confirm that the [REDACTED] [REDACTED]

In case the [REDACTED] do not go to Active mode automatically, the [REDACTED] will switch to [REDACTED] mode and activate the steps manually (by using the play button).

In this case, the backup sending of files will be used between the concerned [REDACTED] and the [REDACTED]

The Offline [REDACTED] for which the [REDACTED] was skipped cannot become [REDACTED] during the Market Coupling Session unless it becomes Online until OBK GCT and case c) is performed.

**c) If the concerned [REDACTED] becomes Online between OBK GCT OBK-15 and OBK GCT**

If the concerned [REDACTED] becomes Online before OBK GCT, this information is given in the [REDACTED] and the [REDACTED] will check with all the [REDACTED] if they have the same [REDACTED] in the [REDACTED]. If not, the IDA Coordinator will take over the [REDACTED] role again, according to IDA\_NEMO\_OPE\_01 -IDA Coordinator Switch.

The [REDACTED] will then coordinate all [REDACTED] to go to [REDACTED] mode and restart the Market Coupling Session in order to perform the [REDACTED] [REDACTED] with all [REDACTED]. The [REDACTED] should become [REDACTED]. All IDA NEMO Operators will then go back to [REDACTED] mode and confirm that the [REDACTED] are [REDACTED]

As soon as this is done, all [REDACTED] will resend their Network Data files through the Local [REDACTED] to the concerned [REDACTED]. The concerned [REDACTED] confirms the reception and the version number of the Network Data files.

If the concerned PMB becomes Online after OBK GCT, all the files will be exchanged in backup mode between the concerned [REDACTED] and the [REDACTED] until the end of the Market Coupling Session.

**Case 3c: If one or more [REDACTED] are Online and the [REDACTED] step displays an empty line**

In case all the messages have been correctly delivered [REDACTED] the [REDACTED] [REDACTED] has to check that an incoming message [REDACTED] from the other [REDACTED] has been received, especially from the [REDACTED] for which the Shared Configuration is missing, according to the User Guide Message log. If the message is missing, the process can be followed by next steps (Network data, Order Data) as soon as the [REDACTED] switches to [REDACTED] Mode and presses the [REDACTED] button in the Local [REDACTED]

## Case 4: Configuration Synchronization check indicates differences

### How to identify and solve the issue

*Case 4a: If the Configuration Synchronization process indicates differences in the SCF version* (detected by all [REDACTED]), the [REDACTED] switches the [REDACTED] to [REDACTED] Mode in order to verify which SCF is the correct version.

In order to identify the correct Shared Configuration File, an [REDACTED] will be triggered according to procedure IDA\_JOINT\_FAL\_01, to confirm which SCF is the correct one.

In order to align the [REDACTED], these options need to be followed:

- a) **If the involved [REDACTED] has not activated the right SCF**, the [REDACTED] has to abort the session, activate the right SCF (see IDA\_NEMO\_OPE\_03-SCF Distribution and Activation) and then create a new Market Coupling Session according to IDA\_NEMO\_EXC\_01 Abort and Restart of the Market Coupling Session.

After this action, for the other [REDACTED] it is enough to switch to [REDACTED] Mode in order to restart the process and perform again the Configuration Synchronization in order to have it correctly completed.

Once the Shared Configuration process is completed, all [REDACTED] in [REDACTED] Mode have to be switched back to [REDACTED] Mode.

- b) **If the involved [REDACTED] cannot activate the right SCF because it has not received the activation message**, all the [REDACTED] have to abort the session, the [REDACTED] has to send again the activation message and then the involved [REDACTED] activates the right SCF.

By aborting the MCS, the [REDACTED] comes back to [REDACTED] Mode. Therefore, the [REDACTED] need to switch their [REDACTED] back to [REDACTED] Mode.

After that, all the [REDACTED] have to create a new Market Coupling Session and manually start the Configuration Synchronization process in order to have it correctly completed.

After the Configuration Synchronization step is completed, each [REDACTED] has to be switched back to Automatic Mode.

- c) **If the involved [REDACTED] cannot activate the right SCF by OBK GCT-15**, the [REDACTED] and the others [REDACTED] have to switch the [REDACTED] to [REDACTED] mode and press the [REDACTED] button in order to skip the Configuration Synchronization process and continue with the MCS.

Once the process is completed, the [REDACTED] are switched back to [REDACTED] Mode.

**Important remark:** The [REDACTED] for which the Shared Configuration step was skipped will no longer be able to become [REDACTED] during the whole Market Coupling Session.

All [REDACTED] will check in the Local [REDACTED] if the other [REDACTED] are online (in the [REDACTED] window). Depending on the result, next options will apply:

- a) If the PMB of the involved IDA NEMO Operator is online and functional, the MCS will continue normally.

- b) If the PMB of the involved IDA NEMO Operator is offline or not functioning, the involved IDA NEMO Operator and the IDA Coordinator will use the backup mode to send and receive files during the whole Market Coupling Session, following Backup procedures.

*Case 4b: If the difference is in the IDA Coordinator* (this is detected by all the [REDACTED]), the [REDACTED] calls the [REDACTED] is triggered (see IDA\_JOINT\_FAL\_01) in order to identify which, one is the correct [REDACTED].

After this has been determined, the correct [REDACTED] has to take the [REDACTED] role again and the corresponding notification will appear in all [REDACTED] (as described in IDA\_NEMO\_OPE\_01 – IDA Coordinator Switch).

If the above solutions have solved the problem, all the [REDACTED] will perform the actions listed further in Case 4, “How to proceed if the issue is solved”.

If the above solutions have not solved the problem, all the [REDACTED] will perform the actions described further in Case 4, in the section “How to proceed if the issue is NOT solved”.

*Case 4c: If the difference is in the [REDACTED] version* (by all [REDACTED]), the [REDACTED] calls the [REDACTED] and an [REDACTED] is triggered (see IDA\_JOINT\_FAL\_01) in order to identify which one is the correct version. After this has been determined, all the misaligned [REDACTED] have the possibility to:

- a) Switch to another [REDACTED] (disaster recovery site, according to IDA\_NEMO\_EX\_03\_Recovery Site) if it has the correct version of [REDACTED];
- b) Send the files in backup mode (not using the [REDACTED]);
- c) If none of the above steps are performed, then the concerned [REDACTED] will be decoupled according to IDA\_NEMO\_EXC\_02-Partial Decoupling.

If this regards the [REDACTED], an exceptional IDA Coordinator switch is required from the Backup Coordinator (see IDA\_NEMO\_OPE\_01 – IDA Coordinator Switch).

If the above solutions have solved the problem, all the [REDACTED] will perform the actions listed further in Case 4, “How to proceed if the issue is solved”.

If the above solutions have not solved the problem, all the [REDACTED] will perform the actions described further in Case 4, in the section “How to proceed if the issue is NOT solved”.

In any case, the [REDACTED] with the incorrect [REDACTED] version should update the [REDACTED] version before next IDA, in order to avoid issue returns

*Case 4d: If the difference is in the Delivery Date* (detected by all [REDACTED]), the [REDACTED] calls the [REDACTED] and an IC is triggered (see IDA\_JOINT\_FAL\_01) in order to confirm which one is the correct Delivery Date.

After this has been determined, the [REDACTED] with the wrong Delivery Date has to abort its own Market Coupling Session and to create manually a new MCS for the correct Delivery Date (as described in IDA\_NEMO\_EXC\_01 Abort and Restart of the Market Coupling Session)

If the above solutions have solved the problem for the concerned [REDACTED], all the [REDACTED] will perform the actions listed further in Case 4, “How to proceed if the issue is solved”.

If the above solutions have not solved the problem, all the [REDACTED] will perform the actions described further in Case 4, in the section “How to proceed if the issue is NOT solved”.

**Case 4e: If the difference is in the Algorithm version** (detected by all [REDACTED]), the IDA NEMO Operator calls the [REDACTED] and an IC is triggered (see IDA\_JOINT\_FAL\_01) in order to identify which one is the correct version.

After this has been determined, all the misaligned PMBs have the possibility to:

- a) Switch to another [REDACTED] (disaster recovery site, according to ANDOA\_EXC\_03 –Disaster Recovery Site) if they have the correct version of Algorithm;
- b) Activate a correct [REDACTED] in case the problem is due to a wrong local configuration (alpha version or else);

If the above solutions have solved the problem, all the [REDACTED] will perform the actions listed further in Case 4, “How to proceed if the issue is solved”.

If the above solutions have not solved the problem, all the [REDACTED] will perform the actions described further in Case 4, in the section “How to proceed if the issue is NOT solved”.

In any case, the [REDACTED] with the incorrect Algorithm version should update the [REDACTED] version before next IDA, in order to avoid issue returns

**Case 4f: If the “Algorithm version” of a PMB is displayed as “Not found”** (a known [REDACTED] issue), the [REDACTED] will perform the following actions in order to be able to complete the Configuration Synchronization process:

- a) Switch the [REDACTED] to [REDACTED] mode;
- b) Manually stop the Configuration Synchronization process;
- c) Manually start the Configuration Synchronization process;
- d) Switch the [REDACTED] back to [REDACTED] mode.
- e) Make sure that the [REDACTED] have become [REDACTED].

These actions should be taken as soon as possible as of OBK GCT-1:00, in order not to hinder the reception of the Network Data files.

These actions can be taken without the need to trigger an [REDACTED].

However, if the actions above do not solve the issue, an [REDACTED] will need to be immediately triggered.

If the above solutions have not solved the problem, all the [REDACTED] will perform the actions described further in Case 4, in the section “How to proceed if the issue is NOT solved”.

**Case 4g: If the difference is in the Auction Code** (detected by all [REDACTED]), the [REDACTED] calls the [REDACTED] and an [REDACTED] is triggered (see IDA\_JOINT\_FAL\_01) in order to identify which one is the correct Auction Code for the on-going session.

After this has been determined, the misaligned [REDACTED] have the possibility to:

- a) Manually abort the session;
- b) Activate a correct [REDACTED] in case the problem is due to a wrong local configuration (with different Process Timing Configuration Code).
- c) Create a new Market Coupling Session according to IDA\_NEMO\_EXC\_01 Abort and Restart of the Market Coupling Session.

After this action, for the other [REDACTED] it is enough to switch to [REDACTED] Mode in order to restart the process and perform again the Configuration Synchronization in order to have it correctly completed.

Once the Shared Configuration process is completed, all [REDACTED] in [REDACTED] Mode have to be switched back to Automatic Mode.

If the above solutions have not solved the problem, all the [REDACTED] will perform the actions described further in Case 4, in the section “How to proceed if the issue is NOT solved”.

### How to proceed if the issue is NOT solved *(Applicable for all Cases except 4a)*

If the differences persist at OBK GCT-15, all the [REDACTED] have to be switched to [REDACTED] Mode and the [REDACTED] have to press the [REDACTED] button in order to [REDACTED] the Configuration Synchronization process.

The steps Network data and Order Data have to be manually activated.

Once the Configuration Synchronization process is Skipped, and [REDACTED] are activated, all [REDACTED] are switched back to Automatic Mode.

In this case, the concerned [REDACTED] for which the Configuration Synchronization process was skipped cannot become [REDACTED] or use the Shadow Calculation to compare the Results during the current MCS.

If this concerns the [REDACTED], an exceptional [REDACTED] switch is required from the [REDACTED] (see IDA\_NEMO\_OPE\_01 – IDA Coordinator Switch).

### How to proceed if the issue is solved *(Applicable for all Cases except 4a)*

**Actions to be performed if the applied solutions have managed to get all the [REDACTED] back aligned while still being in the Configuration Synchronization process:**

- a) Switch the [REDACTED] to [REDACTED] mode;
- b) Manually stop the Configuration Synchronization process;
- c) Manually start the Configuration Synchronization process;
- d) Switch the [REDACTED] back to [REDACTED] mode;
- e) Make sure that the [REDACTED] have become [REDACTED].

## 2.3. Incident investigation management

At the end of each day on which an incident occurs, the [REDACTED] is responsible for sending a detailed Incident Report to all the parties, as described in the IDA\_JOINT\_FAL\_01 procedure, and for providing this report to the [REDACTED].

## 2.4. Operational manual reference

See chapter [REDACTED] in the [REDACTED] (User Guide provided by [REDACTED])