

Restore Backup

MTAS

OPERATING INSTRUCTIONS

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Restore Backup



1 Introduction

This document describes how to restore a backup.

1.1 Prerequisites

This section describes the prerequisites, which must be fulfilled before using the procedure.

1.1.1 Conditions

The following conditions must apply:

- No other backup operation is in progress
- The name and path of the backup to restore is known.
- A backup to restore is available in the system
- An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress



Restore Backup



2 Procedure

In certain cases (for instance node reinstantiation) the MAC addresses in the underlying infrastructure can be changed since the backup was created. In this case, the restored backup does not work because of the altered MAC addresses and additional steps are needed, see Section 2.2 Restore Backup When MAC Addresses Have Been Changed on page 4. If MAC addresses are not changed since the backup created, see Section 2.1 Restore Backup When MAC Addresses Have Not Been Changed on page 3.

2.1 Restore Backup When MAC Addresses Have Not Been Changed

To restore a backup:

1. Navigate to the `BrmBackupManager` managed object, for example:

```
>dn
ManagedElement=NODE06ST, SystemFunctions=1, BrM=1, BrmBackupManager=SYSTEM_DATA
```

2. Specify the backup to restore, for example:

```
(BrmBackupManager=SYSTEM_DATA)>BrmBackup=PERF_BACKUP_NAME1_20140428_175907
```

3. Start the restore operation:

```
(BrmBackup=PERF_BACKUP_NAME1_20140428_175907)>restore
```

The system returns output `true` or `false`.



Attention!

Risk of system malfunction or traffic disturbance.

A cluster reboot is automatically triggered when restoring a System Data backup. The resulting In-Service Performance impact corresponds to the time required for a cluster to restart after reboot.

4. Verify that the backup was successfully restored, for example:

```
(BrmBackup=PERF_BACKUP_NAME1_20140428_175907>) show -v
```



The following is an example output:

```
BrmBackup=PERF_BACKUP_NAME1_20140428_175907
[...]
  asyncActionProgress <read-only>
    actionId=3 <read-only>
    actionName="RESTORE" <read-only>
    additionalInfo=[] <empty>
    progressInfo="PERMIT_PHASE is completed" <read-only>
    progressPercentage=33 <read-only>
    result=NOT_AVAILABLE <read-only>
    resultInfo="" <read-only>
    state=RUNNING <read-only>
    timeActionCompleted="1970-01-01T05:00:00" <read-only>
    timeActionStarted="2014-09-08T10:55:54" <read-only>
    timeOfLastStatusUpdate="2014-09-08T10:55:55" <read-only>
  progressReport <read-only>
    actionId=3 <read-only>
    actionName="RESTORE" <read-only>
    additionalInfo=[] <empty>
    progressInfo="PERMIT_PHASE is completed" <read-only>
    progressPercentage=33 <read-only>
    result=NOT_AVAILABLE <read-only>
    resultInfo="" <read-only>
    state=RUNNING <read-only>
    timeActionCompleted="1970-01-01T05:00:00" <read-only>
    timeActionStarted="2014-09-08T10:55:54" <read-only>
    timeOfLastStatusUpdate="2014-09-08T10:55:55" <read-only>
[...]
```

Note: When performing a System Data backup restore, the restore progress can be monitored (see [View Progress Report](#)) until the system reboot is triggered. After the system is rebooted, the progress report is reset to default values.

2.2 Restore Backup When MAC Addresses Have Been Changed

Update the backup file before restoring it on an instantiated VNF (the node is to be instantiated with the same HOT):

Note: Manipulating the backup requires root permission.

1. On the instantiated VNF, pull the MAC addresses section from `cluster.conf` `/cluster/etc/cluster.conf`.

Note: To keep the original PL numbering for a scaled out cluster, add a comment about the MAC addresses in each of the PL-`<X>.conf` files under the `/cluster/etc/cluster.conf.d`.

2. Decompress the exported backup.



Example file structure of the extracted backup:

```
backupinfo.xml backupinfo.xsd config.md5sum config.metadata
config.tar.gz software.md5sum software.metadata software.tar.gz
validate.md5
```

3. Decompress the `config.tar.gz`, replace the MAC addresses section with pulled MAC addresses obtained in Step 1, for example, after the backup is decompressed under the `/tmp/backup_x/` directory the `cluster.conf` file can be found at

```
/tmp/backup_x/system/config/lotc-ana90139/etc/cluster.conf
```

Note: To keep the original PL numbering, restore the MAC addresses in each of the PL-`<X>`.`conf` files under the `/tmp/backup_x/system/config/lotc-ana90139/etc/cluster.conf.d` directory, with the addresses collected in Step 1.

4. Remove `lde-config.xml`.

For example, after the backup is decompressed under `/tmp/backup_x/` directory, the `lde-config.xml` file can be found at `/tmp/backup_x/system/config/lotc-ana90139/etc/lde-config.xml`.

5. Compress the modified content of the `config.tar.gz` again.

for example, `tar -zcf config.tar.gz system`

6. Calculate and save the new checksum values by running:

```
md5sum config.metadata config.tar.gz > config.md5sum
```

```
md5sum backupinfo.xml backupinfo.xsd config.md5sum
config.metadata config.tar.gz software.md5sum software.metadata
software.tar.gz > validate.md5
```

7. Compress the backup file again.
8. Import the modified backup to the system. For more details, see [Import Backup](#).
9. Restore backup by following the instructions in [Section 2.1 Restore Backup When MAC Addresses Have Not Been Changed](#) on page 3.

Note: The following cluster sizes apply to backup created on a (2+N) VNF and restored on a (2+M) VNF:

$M > N$: The result is (2+N)

$M \leq N$: The result is (2+M)