

Backup description

DESCRIPTION

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Backup description



1 Understanding Backup and Restore Management

1.1 Key Backup and Restore Management Concepts

Backup and Restore Management (BRM) for Cloud Enabled Core MW provides a management interface for backup and restore of the Managed Element (ME).

BRM for Cloud Enabled CoreMW supports only System Data backup type.

The Backup and Restore managed area, BrM, can be found in the Managed Object Model (MOM). For general information about the MOM, Managed Object Classes (MOCs), cardinality, and related concepts, refer to [Managed Object Model User Guide](#).

The characteristics of the backup type are as follows:

- A System Data backup contains the entire software and configuration of the ME.

These backups are to be performed at least weekly. They are recommended after initial installation, before upgrade, and after successful upgrade. In these three situations, the backup files are to be manually exported to an external data repository to avoid unintentional deletion during preventive maintenance.

BRM does not support partial backups that can back up and restore only parts of the ME.

Backups can only be created manually.

Backups can be exported to and imported from an external storage system.

The following backups are automatically labeled by the ME so they can easily be found by the user:

- Last created backup
- Last imported backup
- Last exported backup
- Last restored backup (not supported in Cloud Enabled Core MW deployments)
- Last backup restored or created on the ME



2 Basic Backup and Restore Procedures

BRM supports the following operations for System Data backups:

- Create a backup

This operation creates a backup with the specified name on the local persistent storage media. The procedure in [Create Backup](#) provides further details on how to perform this operation.

- Restore a backup

This operation restores the ME using a backup stored on the local persistent media of the ME. Restoring the ME using a System Data backup is automatically followed by an ME reboot. After reboot, the operation progress information is lost. The procedure in [Restore Backup](#) provides further details on how to perform this operation.

- Delete a backup

This operation deletes the backup specified by its name from the persistent storage media. The procedure in [Delete Backup](#) provides further details on how to perform this operation.

- Export a backup

This operation exports a backup file specified by its name to an external storage system or local file system.

Export is used to store the important ME backups in a safe place. It therefore limits the impact of unintentional local deletion of backup files on the ME. Export can indirectly be used to free up space on the ME since all exported backups are not always needed to be present locally on the ME. The procedure in [Export Backup](#) provides further details on how to perform this operation.

- Import a backup

This operation imports a backup file specified by its name from an external storage system or local file system.

Import is used to make a backup locally available on the ME after the backup has previously been exported and deleted from the ME. Import can be done before a coming backup restore operation or as preventive maintenance to ensure that important backups are locally available. The procedure in [Import Backup](#) provides further details on how to perform this operation.

- Cancel backup and restore operation

Since the following operations are typically long-lasting, this operation can be used to cancel an ongoing operation:

- Create a backup



- Restore a backup
- Delete a backup
- Export a backup
- Import a backup

The procedure in [Cancel Backup and Restore Operation](#) provides further details on how to perform this operation.

— Change prefix for exported backup names

This operation is used to specify a prefix for the label that is generated for all backup export packages. This can be used to identify the ME from which the exported backup originated. The procedure in [Change Prefix for Exported Backup Names](#) provides further details on how to perform this operation.

— List backups

Backups available on the local storage media of the ME, including the labeled backups, can be viewed through BRM. Each backup contains basic information such as the time the backup was created and its status (complete, incomplete, or corrupt). The procedure in [List Backups](#) provides further details on how to perform this operation.

One long-running operation at a time is supported among create backup and delete backup.

3 Security Management

BRM access is managed by an authentication and authorization mechanism. For the BRM role, specific rules are applied to determine the scope of what is accessible.

Once authenticated as a `System Read Only` role, read access is granted to `MO BrM` and its attributes.

The following BRM roles are defined: `SystemReadOnly` and `SystemAdministrator`

Once authenticated as a `System Administrator`, full access is granted to `MO BrM` and its attributes.

For more information on authentication and authorization, refer to [User Management](#).



In addition, a File Management permission is defined only for System Administrator role, applying to the Backup File Group. Once authenticated as a System Administrator, full access is granted to the MO FileGroup=BackupAndRestoreManagementFiles and its attributes.

For more information on authentication and authorization, refer to User Management.