

Installing and Upgrading System Director 6.1-0-3

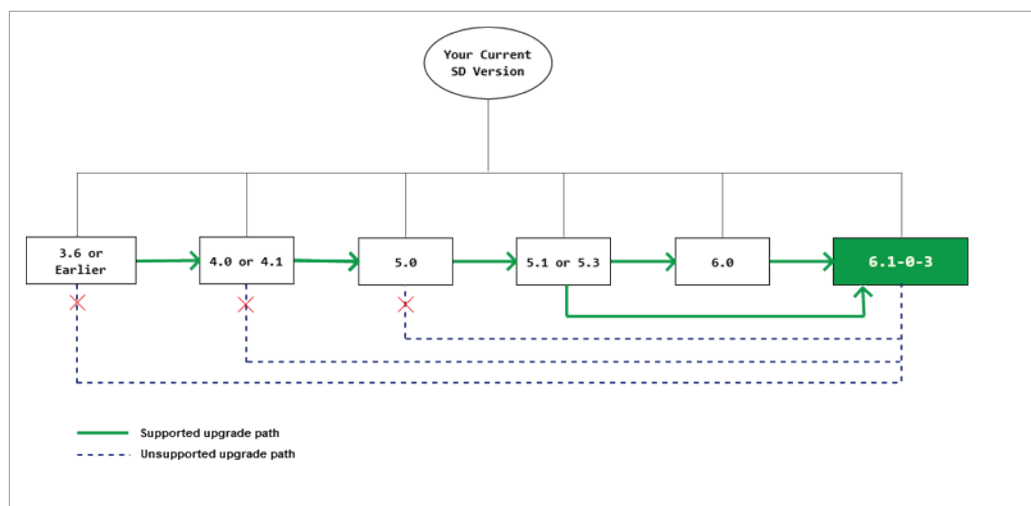
OVERVIEW

This deployment guide can be used as a quick way to install or upgrade to the latest version of System Director. This document provides procedures and instructions applicable to System Director 6.1-0-3. We recommend the following workflow to install or upgrade System Director:

Backup > Verify > Install/Upgrade > Restore

UPGRADE PATH

You can upgrade to System Director 6.1-0-3 from any of the supported GoTo releases. Ensure that you use the right GoTo release and the upgrade path as shown in the following figure.



SUPPORTED GOTO RELEASES

- 3.0 Series - 3.6
- 4.0 Series - 4.0, 4.1
- 5.0 Series - 5.0-87
- 5.1 Series - 5.1-93
- 5.3 Series - 5.3-50, 5.3-132, 5.3-149
- 6.0 Series - 6.0-1-0, 6.0-2-0, 6.0-9-0

CONTROLLER IMAGE NAME

`meru-<sd_version>-<MC_model>-rpm.tar`

Example:

If the controller model (`MC_model`) is MC3200 and you are upgrading to 6.1-0-3 (`sd_version`), then the image file name is:

`meru-6.1-0-3-MC3200-rpm.tar`

BACKUP RUNNING CONFIGURATION

Before performing any major adjustments to your deployment, backup your existing configuration to an external FTP server:

```
# copy running-config ftp://user:password@ftpServer-ip-addr/orig-config.txt
```

Now, copy the running config to the startup config. This ensures that your custom configuration (from the previous installation) is available when the controller restarts after the upgrade.

```
# copy running-config startup-config
```

VERIFY FREE DISK SPACE

The first partition of your controller's flash memory must have a minimum of 150Mb of free space for upgrading. To check available disk space use the `show file systems` command. **Example below:**

```
Filesystem 1K-blocks Used Available Use% Mounted on
/dev/hdc2 428972 227844 178242 57% / (178242 is approximately 178Mb).
```

If you have insufficient free space, use the `delete flash:<flash>` command to clear space by deleting older flash files.

PREPARE THE SYSTEM FOR UPGRADE (4.X TO 5.0 ONLY)

If you are upgrading from System Director 4.x, a one time procedure is required for upgrading from System Director 4.x to System Director 5.0 (because of file system changes in System Director 5.0). Download and apply the pre-feature file to modify the controller's file system for System Director 5.0.

1. Download the **meru-5.0-87-pre-feature** file to your controller using the **copy** command:

```
# copy ftp://ftpuser:ftppasswd@ftpServer-ip-address/meru-5.0-87-pre-feature.tar<space>.
```
2. Apply the pre-feature file using the **upgrade feature** command. The entire process should take approximately 5 to 6 minutes:

```
# upgrade feature 5.0-87-pre-feature
```
3. After the process completes, the pre-feature tar file should be automatically deleted. In some case if the pre-feature file is not deleted, use the **delete flash: 5.0-87-pre-feature** command to delete the file.

UPGRADING THE CONTROLLER

1. Download controller image files from an FTP or TFTP server to the controller using one of the following commands:

```
# copy ftp://ftpuser:password@ext-ip-addr/meru-6.1-0-3-MC_MODEL-rpm.tar<space>. or  
# copy tftp://ext-ip-addr/meru-6.1-0-3-MC_MODEL-rpm.tar<space>.
```
2. Disable AP auto upgrade and then upgrade the controller

```
# auto-ap-upgrade disable  
# upgrade controller <target version> (Example, upgrade controller 6.1-0-3)
```
3. Upgrade the APs

```
# upgrade ap same all
```
4. After the APs are up, use the **show controller** and **show ap** command to ensure that the controller and APs are upgraded to the latest (upgraded) version.
5. Ensure that the system configuration is available in the controller using the **show running-config** command (if not, recover from the remote location). See the **BACKUP RUNNING CONFIGURATION** step.

UPGRADING A SITE RUNNING N+1

To upgrade a site running N+1, all controllers must be on the same System Director version and the backup controller must be in the same subnet as the primary controllers.

1. Connect all controllers using telnet or a serial cable.
2. Stop N+1 on all controllers using the **nplus1 stop** command. This **must be done** on the slave controller first, followed by the master controllers.
3. Begin the upgrade process as mentioned in the **Upgrading the Controller** section. After completing the upgrade, start N+1 **on each** of the master controllers and the slave controller:

```
# nplus1 start master  
# nplus1 start slave
```

4. Use the **show nplus1** command to verify if the slave and master controllers are in the cluster. The output should display the following information:
 - Admin: **Enable**
 - Switch: **Yes**
 - Reason: -
 - SW Version: **6.1-0-3**
5. If the configuration does not display the above settings, use the **nplus1 access <master-controller-IP>** command to complete the configuration.
6. To add any missing master controller to the cluster, use the **nplus1 add master** command.

RESTORE THE SAVED CONFIGURATION

1. Copy the backup configuration back to the controller:

```
# copy ftp://user:pswd@offbox-ip-address/runningconfig.txt orig-config.txt
```
2. Copy the saved configuration file to the running configuration file:

```
# copy orig-config.txt running-config
```
3. Save the running configuration to the start-up configuration:

```
# copy running-config startup-config
```

DOWNGRADING THE CONTROLLER

The procedure to downgrade to an older version is similar to upgrading the controller. Follow the steps mentioned in the **Upgrading the Controller** section.

NOTE

Features from the newer version of System Director will not be available after downgrade. It is recommended that you use the config file that was backed up in the older version of System Director. If you do not have a backup of the older running-config, the default config is used.



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