# ONT Upgrade

## Overview of ONT Upgrade

The ONT Upgrade feature allows you to upgrade an Optical Network Terminal-registered (ONT-registered) on the Optical Line Terminal (OLT). You can configure whether to automatically reboot an ONT or manually reboot an ONT after a software upgrade.

In automatic reboot, the latest version of an ONT is copied and committed after the ONT is automatically reloaded. In manual reboot the latest version is copied into the ONT. The latest version gets committed after the ONT is manually reloaded.

The ONT local generally supports host program backup, that is, there is a primary host program (primary software) and a backup host program (secondary software). When the host program fails to start, it switches to the standby host program automatically.

## Configure ONT Upgrade

To configure ONT upgrade, perform this procedure.

**Before you begin**

- Upload the ONT version file to the OLT either through FTP or TFTP.

- The ONT must be in ONLINE state.

- Do not disconnect power from the ONT while the ONT software is being upgraded.

**Procedure**

| | Command or Action | Purpose |
|---|---|---|
| Step 1 | enable | Enables privileged EXEC mode. |

| | Command or Action | Purpose |
|---|---|---|
| | **Example:**<br>`Device> enable` | Enter your password, if prompted. |
| **Step 2** | **configure terminal**<br>**Example:**<br>`Device# configure terminal` | Enters global configuration mode. |
| **Step 3** | **ont upgrade** {**auto-reboot** \| **manual-reboot**} {*ont_id_list* \| **exclude** {**device-type** *device-type* \| **software-version** *software version*} \| **include** {**device-type** *device-type* \| **software-version** *software version*} \| **sn** {**string-hex** *sn_num* \| **hex** *sn_num*} }<br>**Example:**<br>`Device(config)# ont upgrade auto-reboot 0/1/1` | Configures the upgrade ONT for automatic reboot.<br>• **auto-reboot**: Automatically reboots the ONT.<br>• **manual-reboot**: Manually reboots the ONT.<br>• *ont_id_list*: The list of ONT IDs. The format is in string. The range is from 1 to 256.<br>• **exclude**: Excludes the ONT.<br>• **include**: Includes the ONT.<br>• **device-type** *device-type*: Device identifier. The format is in string. The range is from 1 to 256.<br>• **software-version** *software version*: Software identifier. The format is in string. The range is from 1 to 14.<br>• **sn**: The serial number of the ONT.<br>• **string-hex** *sn_num*: The serial number in string and hexadecimal format.<br>• **hex** *sn_num*: The serial number in hexadecimal format. |

# Monitor ONT Upgrade Status

Use the following command to monitor ONT upgrade status.

**Table 1: Commands to Monitor ONT Upgrade Status**

| Command | Purpose |
|---|---|
| **show ont upgrade-status** {**image** \| **xml**} {*ont_id_list* \| **all**} | Displays information about ONT upgrade status.<br>The upgrade status can be queried when the ONT is upgraded. The upgrade status includes version-loading progress, active finish, auto rebooting, success, and so on. |

# Configuration Example: Configuring ONT Upgrade Status

The following example shows how to configure the ONT upgrade status:

```
Device> enable
Device# load ont-image tftp inet 192.168.100.123 test.tar
Downloading application via TFTP...
Download application via TFTP successfully.
Device# load ont-image ftp inet 192.168.100.123 test.tar 123 123
Downloading application via TFTP...
Download application via TFTP successfully.
Device# configure terminal
Device(config)# ont upgrade auto-reboot 0/1/1
The ONT will reboot automatically after finishing the transmission of the ONT image, are
you sure(y/n)?[n]y
Config success: 1, failed: 0.
The ONT is upgrading, please wait.
Device(config)# show ont upgrade-status image 0/1/1
ONT     Active-version  Inactive-version  Status
0/1/1  C01R544V00B09   C01R544V00B07     success
Total entries: 1.
```