S3900 Series Switches FSOS V0169 Software Upgrade Guide

Models: S3900-24T4S/S3900-24F4S/S3900-48T4S

Contents

Caution：

Software version V1.5.6, V1.5.8 upgrade to V1.6.9, you must use the software upgrade tool -cv_156 to 169.exe.

Software version V16.2 upgrade to V1.6.9, you must use the software upgrade tool -cv_162 to169.exe.

Please note that upgrading the above software version to V1.6.9 without using the upgrade tool will result in a loss of configuration.

1. V1.6.5, V1.6.7 Upgraded to V1.6.9

1.1 Upgrade Preparation

- To avoid problems in the upgrade process, it is recommended to backup the configuration of the switch to the computer first.

- If TFTP is used, please prepare TFTP server first, and the image to be upgraded should be placed in the working directory of TFTP server.

1.2 Stand-alone Upgrade

- Directly upgrade image to V1.6.9

1.3 Upgrade in Stacking Mode

- When the multiple devices are stacking, it is necessary to upgrade the image of all the devices that comprise the stacking.

(1) Save the current configuration of the switch into the startup configuration file to avoid losing the configuration.

Example commands as follows:

```
Switch# copy running - config startup - config
Startup configuration file name: up.cfg
Flash programming started.
Flash programming is completed.
Success.
Switch#
```

(2) Upgrade the image of all devices in the stack by operating the master switch through CLI/WEB.
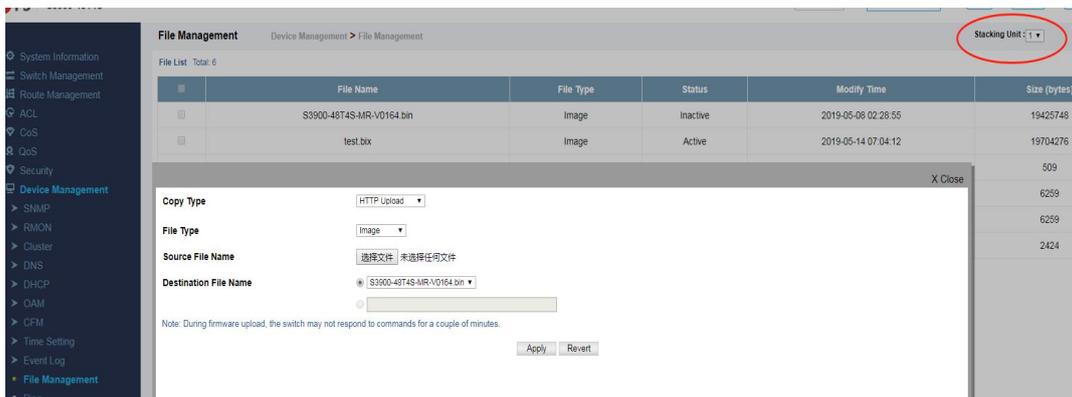
CLI operation as follows:

Please pay attention to the red part below. To upgrade each device in the stacking, you need to specify the unit id of the device in the stacking.

Use the following commands in sequence to upgrade the stack members:

```
Switch#copy tftp file
Copy to which unit: <1-6>: 1                //The unit id of the specified device to be upgraded
TFTP server IP address: 192.168.20.10
Choose file type: 1. config; 2. image: 2
Source file name: test.bin
Destination file name: test.bin
```

WEB: This upgrade step is the same as for the stand-alone upgrade. Please note that the drop-down menu with the red circle needs to explicitly specify the unit id of the upgraded device.

(3) After completing the image upgrade, you need to set up the image uploaded to the switch as the boot image.

NOTE:
All units need to set a new boot image.
The following example is to set the boot image of uinit 2 to imge 69.bin
Switch (config) # boot system 2: config: image169.bin

(4) Restart all stacking switches.

NOTE: Ensure master switches restart first. That way you can ensure that the master doesn't change.

2. V1.6.2 Upgraded to V1.6.9

NOTE: Upgrade with the tool ct_162 to169.exe.

2.1 Upgrade Preparation

· To avoid problems in the upgrade process, it is recommended to backup the configuration of the switch to the computer first.

· TFTP server is required. Please prepare TFTP server on PC and start it.

· The configuration file conversion tool ct_l 62 tol69.exe is required, please put the tool file into the working directory of TFTP server.

· Ensure the switch to be upgraded is accessible through Telnet. The configuration file conversion tool retrieves information about the switch through Telnet.

· If you use TFTP to upgrade image, firstly put image to be upgraded in the working directory of TFTP server.

2.2 Stand-alone Upgrade

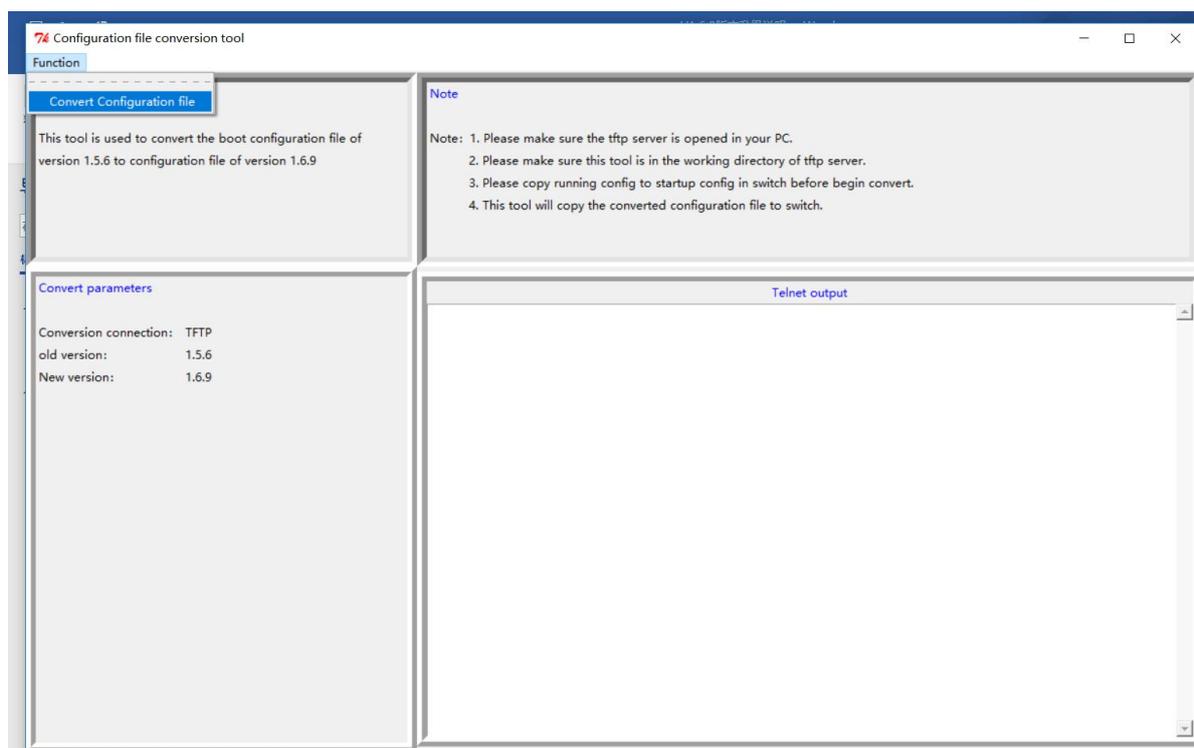(1) Confirm that Telnet can access the switch and TFTP server has started.

(2) Delete the backup image on the switch.
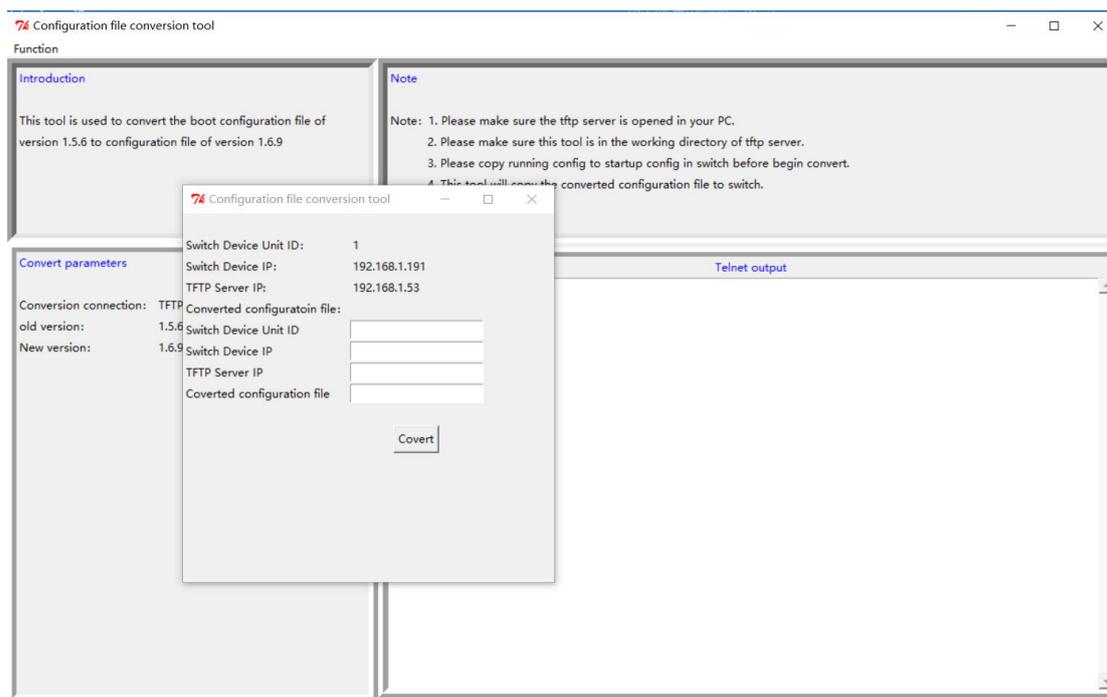
Console#delete file name backupimage.bin

(3) Upload the new image to the switch.

Users can choose by themselves.

(4) Run the configuration file conversion tool cv_162 to169.exe on PC.

Click on the convert configuration file option in the function menu.

Switch device Unit ID:

In the standalone mode, normally the unit id of the switch is 1, it can be obtained by comparing the mac address with the show system and show ip interface commands.

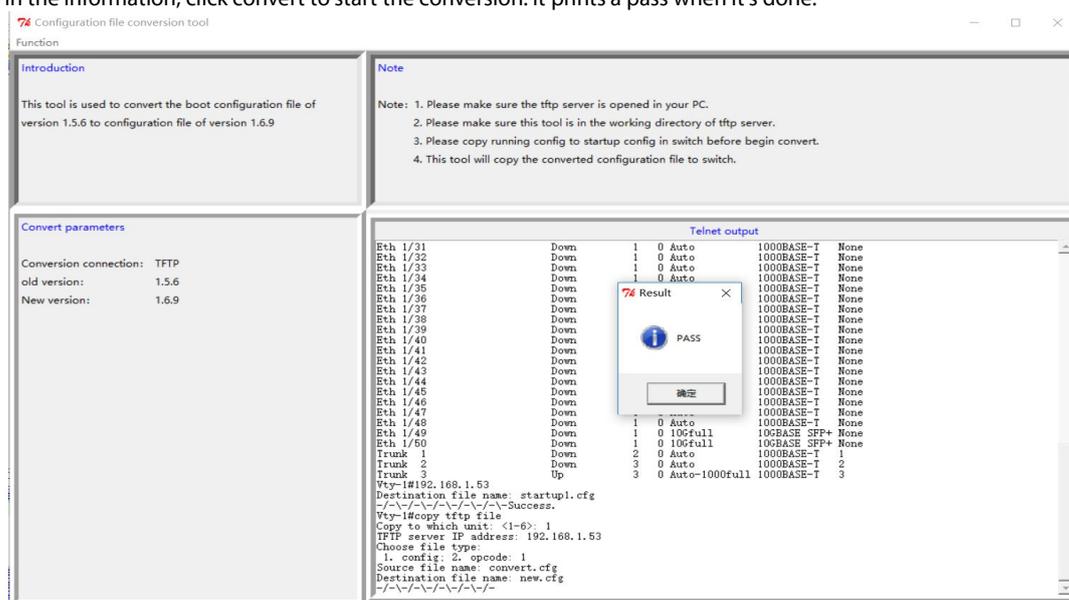In Stacking mode, the different switches have different unit ids.

Switch Device IP: the IP of the switch.

TFTP Server IP: the IP ofTFTP server

Converted configuration file:

After the conversion tool converts the v1.5.6 configuration to the new configuration, the new configuration file name is uploaded to the switch.

After filling in the information, click convert to start the conversion. It prints a pass when it's done.

(5) Set the configuration file uploaded by the configuration file conversion tool to the switch as the boot file.

Console(config)#boot system config: new.cfg

(6) Set the uploaded new image as the boot file.

Console(config)#boot system opcode: image169.bin

(7) Restart the switch.

(8) Delete the backup image on the switch.

Console#delete file name backupimage.bin

(9) Upload the new backup image to the switch.

2.3   Upgrade in Stacking Mode

When the multiple devices are stacking, it is necessary to upgrade the image of all the devices that comprise the stacking.

(1) Save the current configuration of the switch into the startup configuration file to avoid losing the configuration.

Example commands as follows:

Switch#copy running-config startup-config
Startup configuration file name: up.cfg
Flash programming started.
Flash programming completed.
Success.
Switch#

(2) Delete the backup image on the switch.

Delete the backup image on all stacking devices in turn.

The following example is to delete the backup image of unit2.

Console#delete file unit 2 name backupimage.bin

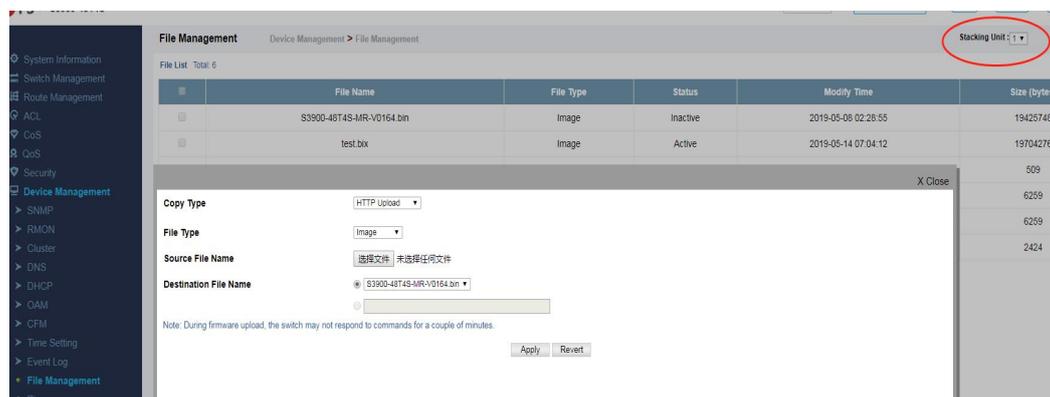(3) Upgrade image on all the devices in the stack by operating the master switch.

CLI operation as follows:
Please pay attention to the red part below. To upgrade each device in the stacking, you need to specify the unit id of the device in the stacking.
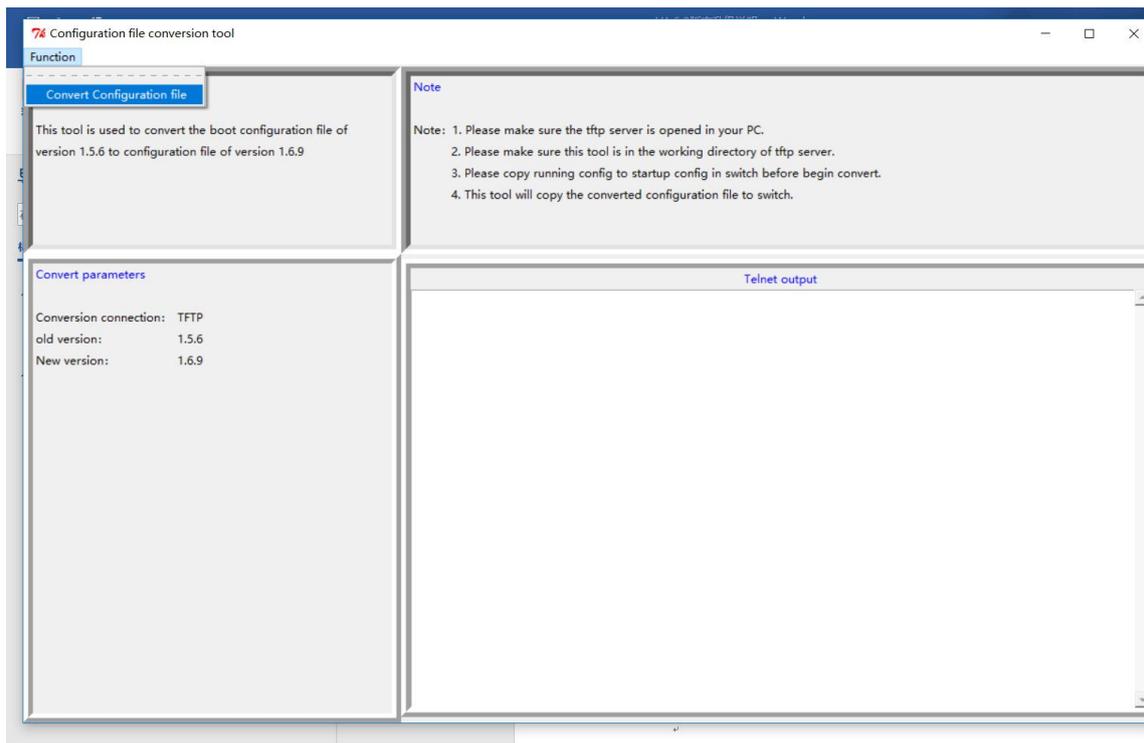
Use the following commands in sequence to upgrade the stack members:

Switch#copy tftp file
Copy to which unit: <1-6>: 1   //The unit id of the specified device to be upgraded
TFTP server IP address: 192.168.20.10
Choose file type: 1. config; 2. image: 2
Source file name: test.bin
Destination file name: test.bin

WEB: This upgrade step is the same as for the stand-alone upgrade. Please note that the drop-down menu with the red circle needs to explicitly specify the unit id of the upgraded device.

(4) Run configuration file conversion tool cv_162 to169.exe on PC.

Click on the convert configuration file option in the function menu.

Switch device Unit ID:

In the standalone mode, normally the unit id of the switch is 1, it can be obtained by comparing the mac address with the show system and show ip interface commands.

In the Stacking mode, different switches have different unit ids.

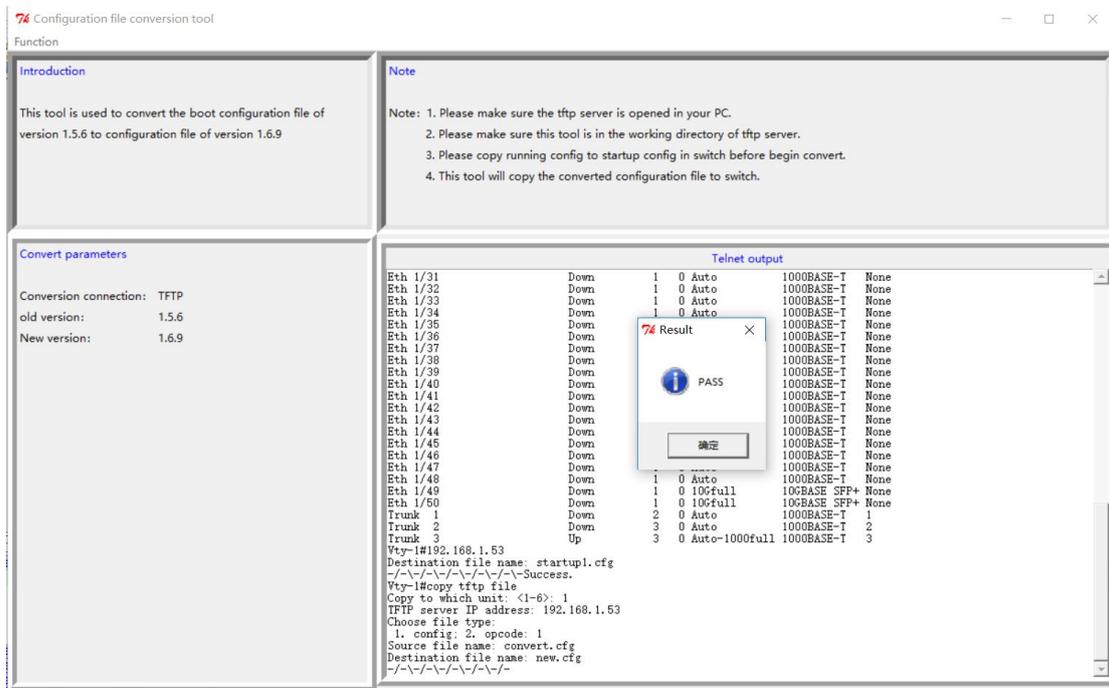Switch Device IP: the id of the switch

TFTP server IP: the IP of TFTP server

Converted configuration file:

After the conversion tool converts the v1.5.6 configuration to the new configuration, the new configuration file name is uploaded to the switch.

After filling in the information, click convert to start the conversion. It prints a pass when it's done.

(5) Set the configuration file uploaded by the configuration file conversion tool to the switch as the boot file.

(6) Set the image uploaded to the switch as the boot image.

NOTE: All units need to set a new boot image.

The following example is to set the boot image of uinit 2 to imge169.bin

Switch(config)#boot system 2: config: image169.bin

(7) Restart all stacking switches.

NOTE: Ensure master switches start first. That way you can ensure that the master doesn't change.

(8) After startup, operate the master switch and save the current configuration to the startup file.

This will update the startup file for all stack units, consistent with the master.

Switch#copy running-config startup-config
Startup configuration file name: abc.cfg
Flash programming started.
Flash programming completed.
Synchronizing to Unit 2.
Flash programming started.
Flash programming completed.
Success.
Switch#

(9) Remove the old images of all stacking switches, refer to step 2.

(10) Upload the new image to all stacking switches as backup image, refer to step 3.

3. V1.5.6, V1.5.8 Upgraded to V1.6.9

NOTE: Upgrade with the tool ct_162 to169.exe.

3.1   Upgrade Preparation

• To avoid problems in the upgrade process, it is recommended to backup the configuration of the switch to the computer first.

• TFTP server is required. Please prepare TFTP server on PC and open it.

• The configuration file conversion tool ct_156 to169.exe is required, please put the tool file into the working directory of TFTP server.

• Ensure the switch to be upgraded is accessible through Telnet. The configuration file conversion tool retrieves information about the switch through Telnet.

• If you use TFTP to upgrade image, firstly put the image to be upgraded in the working directory of TFTP server.

3.2   Stand-alone Upgrade

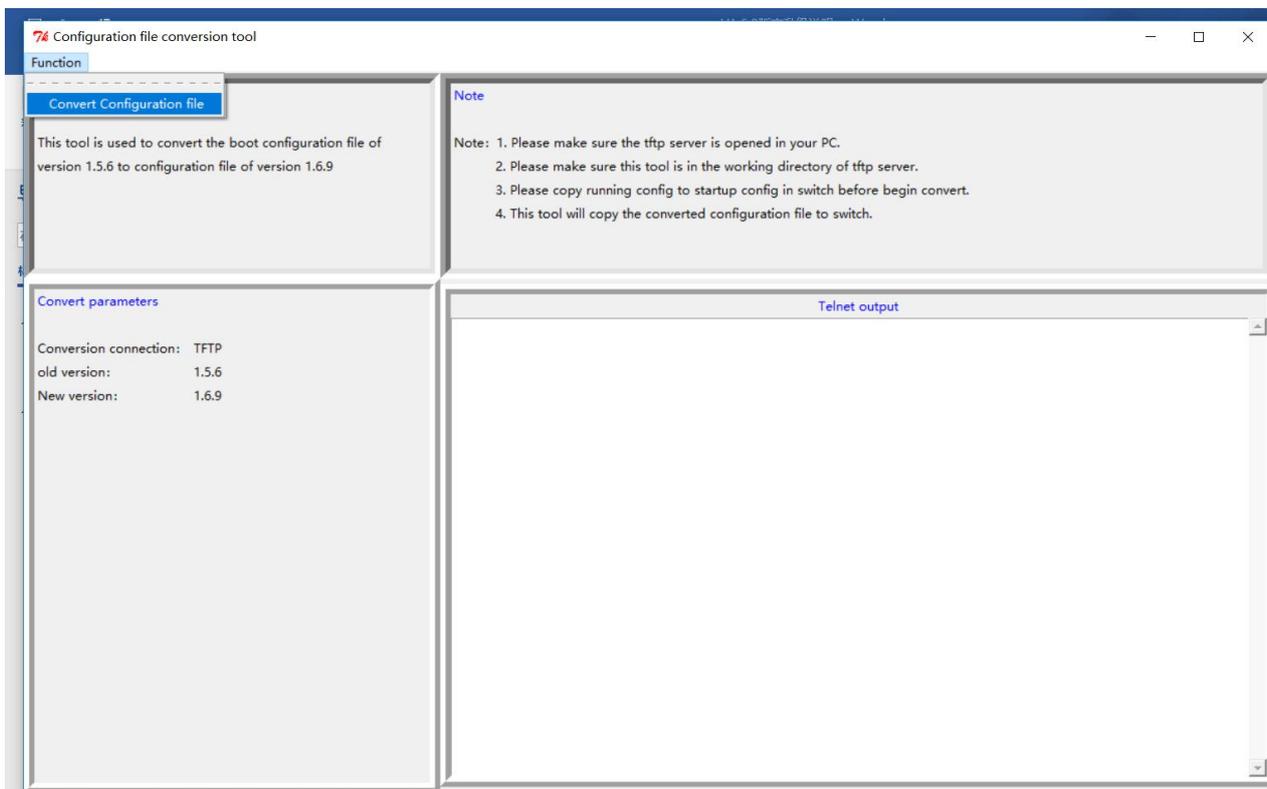(1) Confirm that Telnet can access the switch and TFTP server has started.

(2) Delete the backup image on the switch.

Console#delete file name backupimage.bin

(3) Upload the new image to the switch.

Users can choose by themselves.

(4) Run configuration file conversion tool cv_156 to169.exe on PC.

Click on the convert configuration file option in the function menu.

Switch Device Unit ID:

In the standalone mode, normally the unit id of the switch is 1, it can be obtained by comparing the mac address with the show system and show ip interface commands.

In Stacking mode, the different switches have different unit ids.

Switch Device IP: the IP of the switch

TFTP Server IP: the IP of TFTP server

Converted configuration file:

After the conversion tool converts the v1.5.6 configuration to the new configuration, the new configuration file name is uploaded to the switch.

After filling in the information, click convert to start the conversion. It prints a pass when it's done.

(5) Set the configuration file uploaded by the configuration file conversion tool to the switch as the boot file.

Console(config)#boot system config: new.cfg

(6) Set the uploaded new image as the boot file.

Console(config)#boot system opcode: image169.bin

(7) Restart the switch.

(8) Delete the backup image on the switch.

Console#delete file name backupimage.bin

(9) Upload the new backup image to the switch.

3.3   Upgrade in Stacking Mode

When the multiple devices are stacking, it is necessary to upgrade the image of all the devices that comprise the stacking.

(1) Save the current configuration of the switch into the startup configuration file to avoid losing the configuration.

Example commands as follows:
Switch#copy running-config startup-config
Startup configuration file name: up.cfg
Flash programming started.
Flash programming completed.
Success.
Switch#

(2) Delete the backup image on the switch.

Delete the backup image on all stacking devices in turn.

The following example is to delete the backup image of unit2.

Console#delete file unit 2 name backupimage.bin

(3) Upgrade image on all the devices in the stack by operating the master switch.

CLI operation as follows:

Please pay attention to the red part below. To upgrade each device in the stacking, you need to specify the unit id of the device in the stacking.
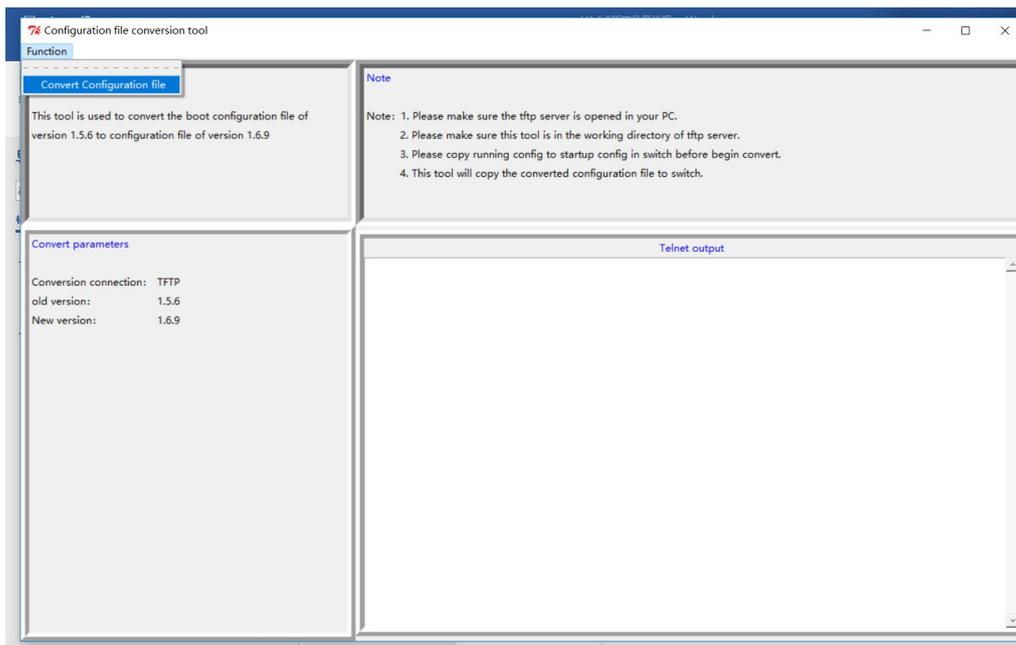
Use the following commands in sequence to upgrade the stack members:
Switch#copy tftp file
Copy to which unit: <1-6>: 1   //The unit id of the specified device to be upgraded
TFTP server IP address: 192.168.20.10
Choose file type: 1. config; 2. image: 2
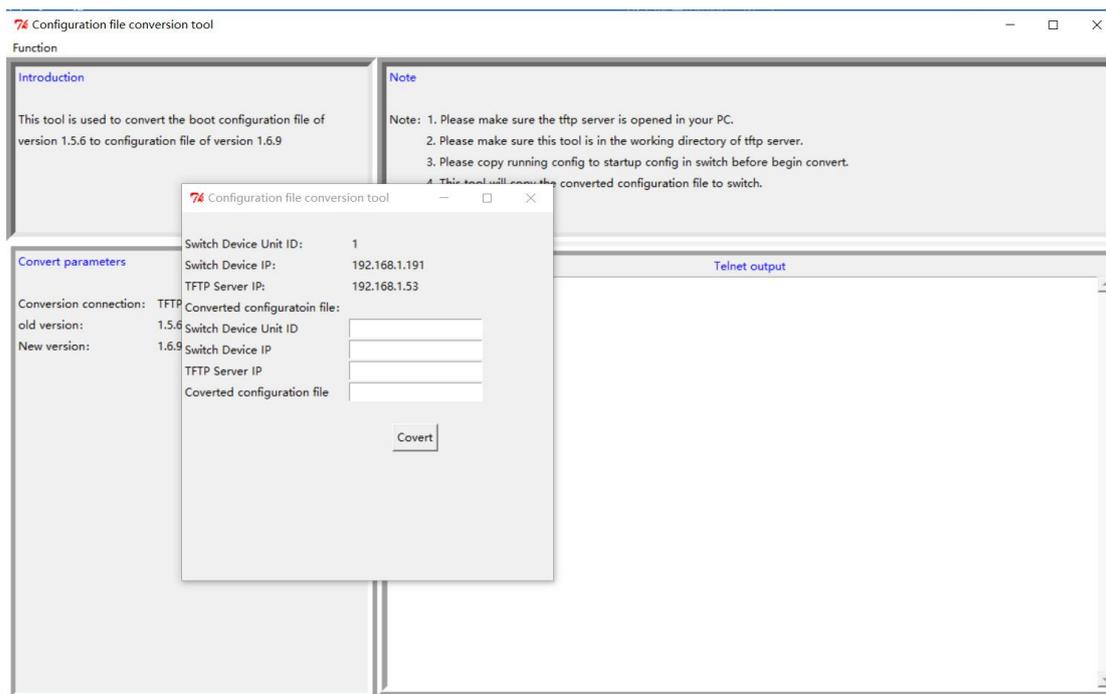Source file name: test.bin
Destination file name: test.bin

WEB: This upgrade step is the same as for the stand-alone upgrade. Please note that the drop-down menu with the red circle needs to explicitly specify the unit id of the upgraded device.

(4) Run configuration file conversion tool cv_156 to169.exe on PC.

Click on the convert configuration file option in the function menu.

Switch Device Unit ID:

In the standalone mode, normally the unit id of the switch is 1, it can be obtained by comparing the mac address with the show system and show ip interface commands.

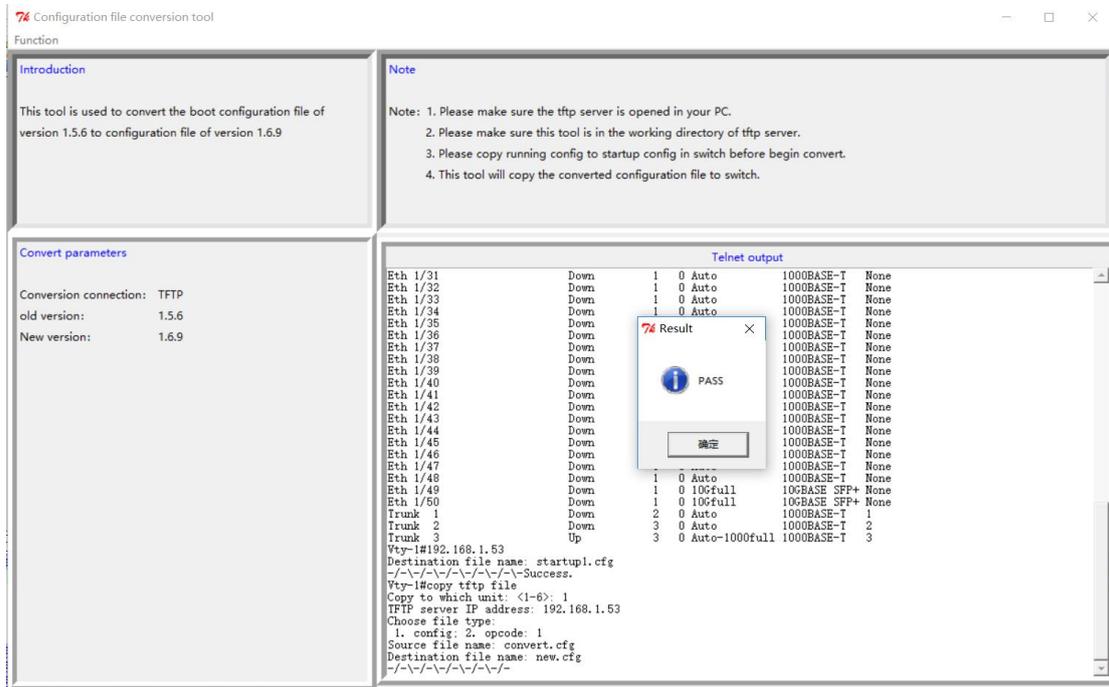In Stacking mode, the different switches have different unit ids.

Switch Device IP: the IP of the switch

TFTP Server IP: the IP ofTFTP server

Converted configuration file:

After the conversion tool converts the v1.5.6 configuration to the new configuration, the new configuration file name is uploaded to the switch.

After filling in the information, click convert to start the conversion. It prints a pass when it's done.

(5) Set the configuration file uploaded by the configuration file conversion tool to the switch as the boot file.

(6) Set the image uploaded to the switch as the boot image.

NOTE: All units need to set a new boot image.

The following example is to set the boot image of uinit 2 to imge169.bin

Switch(config)#boot system 2: config: image169.bin

(7) Restart all stacking switches.

NOTE: Ensure master switches start first. That way you can ensure that the master doesn't change.

(8) After startup, operate the master switch and save the current configuration to the startup file.

This will update the startup file for all stack units, consistent with the master.

```
Switch#copy running-config startup-config
Startup configuration file name: abc.cfg
Flash programming started.
Flash programming completed.
Synchronizing to Unit 2.
Flash programming started.
Flash programming completed.
Success
Switch#
```

(9) Remove the old images of all stacking switches, refer to step 2.

(10) Upload the new image to all stacking switches as backup image, refer to step 3.

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