Firmware version and bootloader update guide for MES5448, MES7048 network switches

During the process of system firmware and bootloader update, you should not disable the power or reboot the device.

System firmware and bootloader update via CLI

To update the firmware using the CLI, you need to connect to the switch using a terminal program (such as HyperTerminal) via Telnet or SSH, or via the serial port.

Terminal program configuration when connecting to the switch via serial port:

1. Select the corresponding serial port;
2. Set the data transfer rate to 115200 baud;
3. Specify the data format: 8 data bits, 1 stop bit, non-parity;
4. Disable hardware and software data flow control;
5. Set VT100 terminal emulation mode (many terminal programs use this terminal emulation mode as the default).

1. *System firmware file upload to non-volatile switch memory*

To upload the system firmware file you need to enter the following command in the CLI:

copy tftp:// <ip address>/File Name backup,

where
- *<ip address>* — IP address of the TFTP server from which the system firmware file will be downloaded;
- *File Name* — system firmware file name;

and press *Enter*. The terminal program window should appear as follows:

copy tftp://<ip address> /FileName backup

Mode... TFTP
Set Server IP................................. <ip address>
Path... ./
Filename....................................... FileName
Data Type...................................... Code
Destination Filename........................... backup

Management access will be blocked for the duration of the transfer
Are you sure you want to start? (y/n) y
TFTP Code transfer starting...
File contents are valid. Copying file to flash...
Attempting to send the STK file to other units in the stack...

If the file upload was successful, the following message will appear:

File transfer operation completed successfully.

 The firmware version in the stack is updated automatically on all units.

2. *Selecting the system firmware file that will be active after rebooting the switch*

To select a new system firmware file as the active one at the next switch boot, execute the following command at the CLI:

boot system backup.

3. *Bootloader version update*

It is recommended to update the version of the bootloader before updating the firmware. To control the current version of the bootloader (Boot version) on the switch, use the command:

show switch

Management SW	Switch	Standby Status	Preconfig Model ID	Plugged-in Model ID	Switch Status	Code Version	Boot Version
1	Mgmt Sw		MES5448	MES5448	OK	8.4.0.5[7fefeab8]	3.5.0

Updating the bootloader version is performed with the following command:

copy tftp:// <ip address>/FileName boot,

where

- *<ip address>* — IP address of the TFTP server from which the system firmware file will be downloaded;
- *FileName* — bootloader file name;

Mode... TFTP
Set Server IP.................................. <ip address>
Path... ./
Filename...................................... FileName
Data Type..................................... unknown

Management access will be blocked for the duration of the transfer
Are you sure you want to start? (y/n) y

 The firmware version in the stack is updated automatically on all units.

4. *Switch reboot*

To reboot the switch use the *reload* command.
You will be prompted to save the configuration:
Management switch has unsaved changes.
Would you like to save them now? (y/n) y

Config file 'startup-config' created successfully.

Configuration Saved!

It is also necessary to confirm the reboot:
Are you sure you want to reload the stack? (y/n) y