

# Firmware upgrade via command line

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## Introduction

This article describes the process of updating an RUTxxx router's firmware via command line. It applies to [RUT230](#), [RUT240](#), [RUT850](#), [RUT950](#) and [RUT955](#) routers.

Upgrading the router's firmware via command line can be beneficial when:

- Updating from versions older than RUT2XX\_R\_00.00.348 or RUT9XX\_R\_00.04.75 to newer versions in order to keep settings
- You've lost access to the router via HTTP or HTTPS
- Upgrading firmware remotely

## Prerequisites

- You will need a firmware file. You can download firmwares from our wiki, from one of the following links:
  - [RUT230 Firmware Downloads](#)
  - [RUT240 Firmware Downloads](#)
  - [RUT850 Firmware Downloads](#)
  - [RUT950 Firmware Downloads](#)
  - [RUT955 Firmware Downloads](#)
- You will need access to the router via some form of command line. Access to command line interfaces (CLIs) supported by RUTxxx routers are described in this article:
  - [Command line interfaces](#)

## Uploading the firmware file to the router

Before you can initiate the upgrade, you must first upload the firmware file into the router's RAM memory, because the flash memory is too small to store it. Files uploaded to the **/tmp/** directory are stored in the RAM memory, so that's where you'll need to upload the file. There are three ways to accomplish this:

### 1. Via the router's WebUI

If you have access to the router's WebUI, simply login, navigate to **System → Firmware**, select "Upgrade from file" and click the "Upgrade" button. This will upload the firmware file to the **/tmp/** directory and change its name to **firmware.img**.

### 2. Using WinSCP (Windows)

If you are using a Windows computer, you can use **WinSCP** to upload files to the router. Download WinSCP from [here](#), launch it, select **SCP** as the File protocol and login to the router (the login process is basically the same as when using PuTTY). Then locate the **tmp** directory and drag the firmware file inside it (just like you copy/move any other file using Windows).

### 3. Using scp (Linux)

Use the **scp** command to copy the firmware file via SSH. Open up a Terminal in the directory where the file is located (right-click any blank space in the directory and select "Open in Terminal"). Then enter the following command:

```
scp RUT9XX_R_00.05.00.5_WEBUI.bin root@192.168.1.1:/tmp/
```

Where:

- **RUT9XX\_R\_00.05.00.5\_WEBUI.bin** is the firmware file's name. Replace it with your firmware's name.
- **192.168.1.1** is the router's IP address. Replace with your own router's IP.
- **/tmp/** is the directory where the file will be copied to.

### 4. Using wget on CLI

Use the **wget** command to download the firmware file directly into the tmp directory of your router with the CLI. Open RMS and login to the CLI interface, or open a SSH session to get access to your router's CLI. And enter the following commands:

```
cd /tmp/
wget -c
https://wiki.teltonika-networks.com/wikibase/images/3/35/RUT2XX_R_00.01.10_WEBUI.bin
sysupgrade RUT2XX_R_00.01.10_WEBUI.bin
```

Where:

- [https://wiki.teltonika-networks.com/wikibase/images/3/35/RUT2XX\\_R\\_00.01.10\\_WEBUI.bin](https://wiki.teltonika-networks.com/wikibase/images/3/35/RUT2XX_R_00.01.10_WEBUI.bin) is the firmware file's download link, can be found on this wiki.

**NOTE:** files are removed from the **/tmp/** directory after a reboot. If you rebooted the router, you'll need to upload the firmware file again.

## Upgrading the firmware

To upgrade the firmware, login to the router and execute the following command:

```
sysupgrade /tmp/RUT9XX_R_00.05.00.5_WEBUI.bin
```

- **sysupgrade** is the command used to upgrade the router's firmware.
- **RUT9XX\_R\_00.05.00.5\_WEBUI.bin** is the firmware file's name. Replace the firmware file's name that you are using. If you uploaded the firmware via WebUI, the name will automatically be changed to **firmware.img** regardless of what firmware version you use.

## See also

- Other guides concerning system upgrades:
  - [RUT2xx Bootloader Upgrade](#)
  - [RUT2xx Firmware via The Bootloader Menu](#)
  - [RUT9xx Bootloader Upgrade](#)
  - [RUT9xx Firmware via The Bootloader Menu](#)

## External links

- <https://winscp.net/eng/download.php> - WinSCP download