

# TAP200 Maintenance

[Main Page](#) > [TAP Access Points](#) > [TAP200](#) > [TAP200 Manual](#) > [TAP200 WebUI](#) > [TAP200 System section](#) > **TAP200 Maintenance**

The information in this page is updated in accordance with firmware version [TAP200\\_R\\_00.07.07.1](#).



## Contents

- [1 Summary](#)
- [2 Backup](#)
  - [2.1 Summary](#)
  - [2.2 Create default configuration](#)
  - [2.3 Backup configuration](#)
  - [2.4 Restore configuration](#)
    - [2.4.1 Backup Security Check](#)
  - [2.5 Reset settings](#)
- [3 Troubleshoot](#)
  - [3.1 Logging Settings](#)
  - [3.2 Troubleshoot](#)
  - [3.3 Diagnostics](#)
- [4 Events Log](#)
  - [4.1 Summary](#)
  - [4.2 All Events](#)
  - [4.3 General Events](#)
  - [4.4 System Events](#)
  - [4.5 Network Events](#)
  - [4.6 Connections Events](#)
- [5 CLI](#)
  - [5.1 Summary](#)
  - [5.2 CLI](#)

## Summary

This page is an overview of the **Maintenance** section of TAP200 devices.

## Backup

## Summary

The **Backup** page is used to generate configuration backup files or upload existing ones to the device. This chapter is an overview of the Backup page in TAP200 devices.

### Create default configuration

The **Create default configuration** section is used to create or delete a file which stores current device configuration. The default configuration can later be loaded in [Administration](#) page or via reset button.

Click the 'Create' button to generate default configuration file from your current device configuration.



### Backup configuration

The **Backup configuration** section is used to generate and download a file which stores the current device configuration. The backup file can later be uploaded to the same device or another device of the same type (product codes must match).

This section contains MD5, SHA256 checksum fields generated from latest downloaded backup file, 'Encrypt' option and the 'Download' button to generate and download the device configuration backup file.



### Restore configuration

The **Restore configuration** section is used to upload a configuration file that was taken from this device or another device of the same type.

Turn on 'Encrypted' if backup file was previously encrypted and click the 'Browse' button to select a backup file from your computer and click the 'Upload archive' button to apply the selected configuration on to this device.



#### Important notes:

- Password will be used when extracting formatted 7z archive to gain access to a tar file.
- Backup files can be uploaded only if they are taken from an identical device (identical Product code (can be checked in the Status → [System](#) page)) with identical or older firmware.
- It is important to remember that the backup file not only changes the device configuration, but also the password. If you are unsure of the backup file's password, you may want to reconsider uploading it because you may lose access to device.

### Backup Security Check

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After uploading a backup file your device will calculate checksums for uploaded file and display them. If this backup file was the latest downloaded in your device then you can compare these checksums with the ones in your [Backup configuration](#) section to verify backup's integrity.

If everything is in order click **Proceed** to restore configuration to backup.



## Reset settings

The **Reset settings** section is used for restoring device's configuration.



Reset type	Value	Description
System settings	-(single select)	Resets all configuration except RMS data, logs and PIN code.
Factory defaults	-(single select)	Resets router to factory configurations. RMS data, logs and PIN code will be reset!
User's default configuration*	-(single select)	Resets router to user's default configurations.

\*This button will be greyed out until you have created a [User's default configuration](#).

## Troubleshoot

### Logging Settings

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The **Logging Settings** section is used to configure how and where the device stores system log data. The system log is a file that contains information on various system related events and is useful to engineers for troubleshooting the device.




Field	Value	Description
System log buffer size	integer; default: <b>128</b>	System log buffer size in kibibytes (KiB).
External system log server Hostname	host:port; default: <b>none</b>	IP address/host and port of an external server that will be used to store device logs.
External system log server Protocol	UDP   TCP; default: <b>UDP</b>	Communication protocol used by the external log server.
Save log in	RAM memory   <a href="#">Flash memory</a> ; default: <b>RAM memory</b>	Specifies which type of memory to use for storing system logs.
<a href="#">System log file size</a>	integer [10..500]; default: <b>200</b>	Maximum size (in kilobytes) of a log file. When threshold is reached, log rotation is performed. Can be set to value from 10kB to 500kB. Smaller the file, larger amount of old logs is saved.

Compress	off   on; default: <b>off</b>	Compress old rotated logs using GZ format.
Delete	- (interactive button)	Deletes log file from router.
Show hostname	off   on; default: <b>off</b>	Show hostname instead of IP address in syslog.

## Troubleshoot

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The **Troubleshoot** section is used to download various files that contain information used for troubleshooting the device. Refer to the figure and table below for information on the Troubleshoot page. 

Field	Value	Description
System log	- (interactive button)	Displays the contents of the device system log file. The system log contains records of various system related events, such as starts/stops of various services, errors, reboots, etc.
Kernel log	- (interactive button)	Displays the contents of the device kernel log file. The kernel log contains records of various events related to the processes of the operating system (OS).
Troubleshoot file	- (interactive button)	Downloads the device Troubleshoot file. It contains the device configuration information, logs and some other files. When requesting support, it is recommended to always provide the device Troubleshoot file to Teltonika engineers for analysis.

## Diagnostics

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The **Diagnostics** section is used to execute simple network diagnostic tests, including *ping*, *tracert* and *nslookup*.



Field	Value	Description
Method	Ping   Traceroute   Nslookup; default: <b>Ping</b>	<p>Selects diagnostic method.</p> <ul style="list-style-type: none"> <li>• <b>Ping</b> - sends ICMP requests to the specified address.</li> <li>• <b>Traceroute</b> - displays the path that packets have to take in order to reach the specified address.</li> <li>• <b>Nslookup</b> - obtains domain name address and IP address mapping information.</li> </ul>
Protocol	IPv4   IPv6; default: <b>IPv4</b>	Selects IP address family for diagnostic test.
Address	ip   host; default: <b>none</b>	IP address or hostname on which the diagnostic test will be performed.
Perform	-(interactive button)	Performs diagnostic test when clicked.

# Events Log

## Summary

The **Events Log** page contains information on various device related events. This article is an overview of the Events Log page for TAP200 routers.

## All Events

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The **All Events** page contains a chronological list of various events related to the device. The figure below is an example of the Events Log section:



## General Events

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The **General Events** page contains a chronological list of general events related to the device. The figure below is an example of the Events Log section:



## System Events

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The **System Events** page contains a chronological list of system events related to the device. The figure below is an example of the Events Log section:



## Network Events

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The **Network Events** page contains a chronological list of network events related to the device. The figure below is an example of the Events Log section:



## Connections Events

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The **Connections Events** page contains a chronological list of connections events related to the device. The figure below is an example of the Events Log section:



# CLI

## Summary

The **CLI** or **Command-line interface** functionality allows you to enter and execute Linux commands within the device. This manual page provides an overview of the CLI page in TAP200 devices.

## CLI

The RutOS **CLI** is a console interface similar to the Linux Terminal program. Use the following credentials to log in:

- Username: root
- Password: device's password

If the login was successful, you should be greeted with a window similar to this:

