



FL SWITCH 2000 FL WLAN 1100/2100

Command-line Interface (CLI) User manual

User manual

Order No. —

User manual

FL CLI

2018-10-04

Designation: UM EN FL CLI

Revision: 00

Order No.: —

This user manual is valid for:

Please observe the following notes

User group of this manual

The use of products described in this manual is oriented exclusively to:

- Qualified electricians or persons instructed by them, who are familiar with applicable standards and other regulations regarding electrical engineering and, in particular, the relevant safety concepts.
- Qualified application programmers and software engineers, who are familiar with the safety concepts of automation technology and applicable standards.

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There are three different categories of personal injury that are indicated with a signal word.

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WARNING This indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION This indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



This symbol together with the signal word **NOTE** and the accompanying text alert the reader to a situation which may cause damage or malfunction to the device, hardware/software, or surrounding property.



This symbol and the accompanying text provide the reader with additional information or refer to detailed sources of information.

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1 Command Line Interface (CLI)

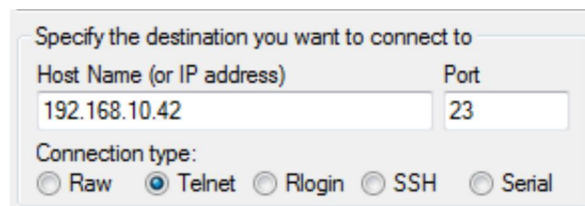
1.1 Using the Command Line Interface (CLI)

The Command Line Interface (CLI) is a text-based tool that can be used to configure and diagnose the device. The CLI is accessed by means of a connection via Telnet (factory default) or SSH. Configuration of the CLI service via the web-based management of the device is described in the user manual of the device.

1.2 Access to the CLI

The CLI is accessed via a Telnet connection (factory default) or SSH connection from a management host, e.g., a PC. The Windows command prompt or the PuTTY freeware tool can be used as an input terminal, for example.

The device requires an IP address and a subnet mask in order to access the CLI. Configuration of the device network parameters is described in the user manual of the device.



Specify the destination you want to connect to

| Host Name (or IP address) | Port |
|---------------------------|------|
| 192.168.10.42 | 23 |

Connection type:

Raw Telnet Rlogin SSH Serial

Figure 1-1 Configuration of a Telnet connection in PuTTY



```
192.168.10.42 - PuTTY
(FL SWITCH 2206-2FX)
User: admin
Password: *****
*****
      FL SWITCH 2206-2FX
*****
>
```

Figure 1-2 Command terminal in PuTTY

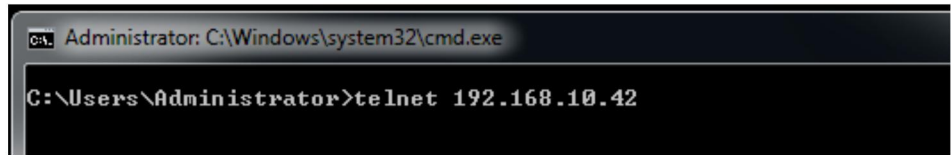


Figure 1-3 Establishing a Telnet connection via Windows command prompt

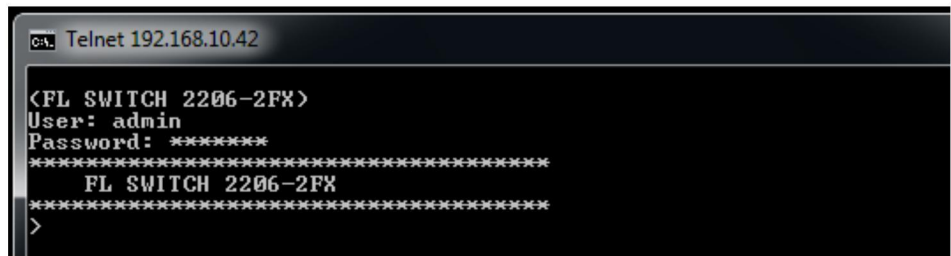


Figure 1-4 Command terminal in Windows command prompt

1.3 Basic principles for using CLI commands

In this section, the **CLI command names** are written in bold. *CLI parameters* are written in italics and must be replaced by appropriate values (e.g., names or numbers). If a command has several parameters, the order of these must be strictly observed.

The parameters of a command may be mandatory, optional or a selection of values (see Table “Structure of CLI commands” on page 8).

Table 1-1 Structure of CLI commands

| Icon | Example | Description |
|-------------------------------------|-------------------------|---|
| < > Angle brackets | <Value> | Denotes a mandatory parameter that must be entered in place of the brackets |
| [] Square brackets | [Value] | Denotes an optional parameter that can be entered in place of the brackets |
| { } Braces | {choice1 choice2} | Denotes the mandatory selection of a value from a given list of values |
| Vertical bar | choice1 choice2 | Separates mutually exclusive selection options |
| [{}] Braces within square brackets | [{choice 1 choice 2}] | Denotes a selection within an optional parameter |

1.4 Command syntax

A command consists of one or more terms which can be followed by one or more parameters. These parameters can be mandatory or optional values.

Some commands, e.g., **show network** or **clear config**, do not require parameters. Other commands, e.g., **network parms**, require values to be specified after the command name. The parameters must be entered in the specified order, whereby optional parameters always follow mandatory parameters.

The following example illustrates the syntax using the **network parms** command:

```
network parms <ipaddr> <netmask> [gateway]
```

- **network parms** is the command name.
- <ipaddr> and <netmask> are parameters and represent mandatory values, which must be specified after entering the command name.
- [gateway] is an optional parameter, which means that a value does not have to be specified.

The following examples illustrate the correct syntax for entering the **network parms** command:

```
network parms 192.168.10.42 255.255.255.0
```

```
network parms 192.168.10.42 255.255.255.0 192.168.10.0
```

The following examples illustrate incorrect syntax for entering the **network parms** command:

```
network parms 192.168.10.42 - missing mandatory parameter
```

```
network parms 255.255.255.0 - missing mandatory parameter
```

```
network parms 255.255.255.0 192.168.10.42 - incorrect parameter sequence
```

1.5 Using the CLI help

Entering a question mark (?) in the command prompt displays a list of all the commands currently available together with a brief description.

Table 1-2 Structure of CLI commands

| Command | Description |
|---------|---------------------------------|
| ? | Displays the available commands |

Typing a question mark (?) after each entry displays all the available command names or parameters from this point on.

```
>spanning-tree

port          Configure spanning tree port parameters.
max-age       Configure bridge maximum aging time.
fwd-delay     Configure bridge forward delay.
hello-time    Configure bridge hello time.
bdg-prio      Configure bridge priority.
frd           Configure fast ring detection.
lts           Configure large tree support.
status        Select spanning tree status.

>spanning-tree bdg-prio
```

If Help outputs a parameter in angle brackets, this parameter must be replaced by a value.
Example:

<ipaddr> Enter the IP address

```
>network parms

<ipaddress>      Enter IP address.

>network parms 192.168.10.43
```

If at any point there are no further command names or parameters available, or further parameters are optional, the following message appears prompting you to execute the command that was entered:

<cr> Press Enter to execute the command

```
>show mrp

<cr>              Press Enter to execute the command.

>show mrp

OK
```

1.6 Auto completion of commands

The auto completion command is an additional way of writing a command, provided enough letters have already been entered to clearly identify the command name. As soon as enough letters have been entered, press space or TAB to automatically complete the words.

```

>spanning-tree f
  2 Possibilities:
    fwd-delay
    frd
>spanning-tree fwd-delay

```

1.7 Using the CLI network scripting UI

The CLI network scripting UI enables CLI commands from scripts to be loaded into the device via the network. This means that the device can be configured and diagnosed using a URL via a PC or from a controller. Each command that is entered is confirmed by the device, either with OK (config commands) or by outputting the device data (show commands).

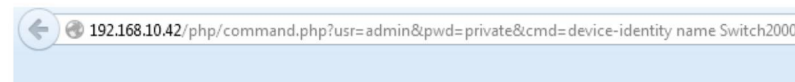
The command entry must follow a specific syntax:

```
http://ipaddress/php/command.php?usr=username&pwd=password&cmd=cli_command_1 | cli_command_2 | ....
```

The following examples illustrate the correct syntax for entering commands via the CLI network scripting UI:

Example: changing the device name

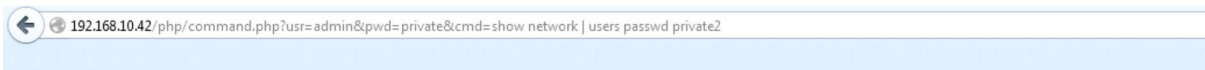
```
http://192.168.10.42/php/command.php?usr=admin&pwd=private&cmd=device-identity name Switch2000
```



OK

Example: displaying the network parameters and changing the user password

```
http://192.168.10.42/php/command.php?usr=admin&pwd=private&cmd=show network | users passwd private2
```



OK IP Assignment : bootp IP Address : 192.168.10.42 Network Mask : 255.255.255.0 Default Gateway : 0.0.0.0 Management VLAN : 1 ACD Mode : None ERROR

1 CLI commands

1.1 Port security commands

| ID | Command | Value range | Default | Answer |
|--------------------------------------|-----------------------------|--------------------|-------------------------------|--------|
| PSec001 | port-security status enable | {enable disable} | | OK |
| Description | | | | |
| Enable port security | | | | |
| Example | | | | |
| port-security status enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

| ID | Command | Value range | Default | Answer |
|--|--|--|-------------------------------|--------|
| PSec002 | port-security port <wifild> status <Status> | {none trap block pass IP-whitelist} | | OK |
| Description | | | | |
| Set port security mode for a specific port (WLAN 1, WLAN 2, etc.) | | | | |
| none: no security function | | | | |
| trap: (for SWITCH 7000 family only) send trap when a new device/new MAC address is detected | | | | |
| block: block everything except the exceptions entered (whitelist) for SWITCH 7000 family: whitelist filter for entered MAC addresses for WLAN family (access points only): whitelist filter for entered WLAN clients | | | | |
| pass: forward everything except the exceptions entered (blacklist) for WLAN family (access points only): blacklist filter for entered WLAN clients | | | | |
| IP-Whitelist: (WLAN family only) only packets for the specified IP addresses and ports are forwarded | | | | |
| Example | | | | |
| port-security port 101 status IP-whitelist | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| PSec003 | port-security port <wifild> add-ip <ip-address> <IP- Port> | IP address: (xxx.xxx.xxx.xxx) Port: (1... all) | | OK |
| Description | | | | |
| Create new filter entry An entry consists of IP and UDP/TCP port. Note: the command "port-security port 101 configure-ip" can be used to add a description. | | | | |
| Example | | | | |
| port-security port 101 add-ip 192.168.0.250 8881 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

| ID | Command | Value range | Default | Answer |
|--|--|---|-------------------------------|--------|
| PSec004 | port-security port <wifild> configure-ip <ip-address> <IP-Port> description <de- scription> | IP address: (xxx.xxx.xxx.xxx) Port: (1... all) | | OK |
| Description | | | | |
| Edit an existing filter entry. | | | | |
| Example | | | | |
| port-security port 101 configure-ip 192.168.0.250 8881 description "Testdesc1" | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

| ID | Command | Value range | Default | Answer |
|--|--|---|-------------------------------|--------|
| PSec005 | port-security port <wifild> remove-ip <ip-address> <IP-Port> | IP address: (xxx.xxx.xxx.xxx) Port: (1... all) | | OK |
| Description | | | | |
| Delete a security entry The entry to be deleted is specified by means of "IP address" and "Port". | | | | |
| Example | | | | |
| port-security port 101 remove-ip 192.168.0.250 8881 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

| ID | Command | Value range | Default | Answer |
|---|---|---|-------------------------------|--------|
| PSec006 | port-security port <wifild> add-mac <MAC> <VLAN> | MAC: (xx:xx:xx:xx:xx:xx) VLAN: for WLAN: 1 | | OK |
| Description | | | | |
| Create new filter entry An entry consists of MAC and VLAN. Always use "VLAN 1" for WLAN. Note: the command "port-security port 101 configure" can be used to add a description. | | | | |
| Example | | | | |
| port-security port 101 add-mac 00:A0:45:DD:5E:8C 1 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

| ID | Command | Value range | Default | Answer |
|--|---|---|-------------------------------|--------|
| PSec007 | port-security port <wifild> remove-mac <MAC> <VLAN> | MAC: (xx:xx:xx:xx:xx:xx) VLAN: for WLAN: 1 | | OK |
| Description | | | | |
| Remove filter entry. The entry is specified via MAC and VLAN. | | | | |
| Example | | | | |
| port-security port 101 remove-mac 00:a0:45:dd:5e:8c 1 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| PSec008 | port-security port <wifild> configure <MAC> <VLAN> description <description> | MAC: (xx:xx:xx:xx:xx:xx) VLAN: for WLAN: 1 description: (15 alphanumeric characters) | | OK |
| Description | | | | |
| Add or edit description for filter entry. The entry is specified via MAC and VLAN. | | | | |
| Example | | | | |
| port-security port 101 configure 00:a0:45:dd:5e:8c 1 description "Testdesc1" | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

| ID | Command | Value range | Default | Answer |
|---|-------------------------------------|-----------------------------|-------------------------------|--------|
| PSec009 | show port-security port <wifild> | show port-security port 101 | | |
| Description | | | | |
| Show all current security settings for the port | | | | |
| Example | | | | |
| show port-security port 101 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

1.2 WLAN Radius commands

| ID | Command | Value range | Default | Answer |
|--|---|-------------|-------------------------------|--------|
| WRad001 | users radius auth-server_id <Id> shared-secret | | | OK |
| Description | | | | |
| Shared secret (password) for login to Radius server | | | | |
| Example | | | | |
| users radius auth-server_id 1 shared-secret "MySecret" | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

| ID | Command | Value range | Default | Answer |
|---|--|-------------|-------------------------------|--------|
| WRad002 | users radius auth-server_id <Id> udp-port | | | OK |
| Description | | | | |
| Radius server port | | | | |
| Example | | | | |
| users radius auth-server_id 1 udp-port 8888 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

| ID | Command | Value range | Default | Answer |
|---|--|-------------|-------------------------------|--------|
| WRad003 | users radius auth-server_id <Id> ip-address | | | OK |
| Description | | | | |
| IP address of the Radius server Only "1" may be used as the Id at present. | | | | |
| Example | | | | |
| users radius auth-server_id 1 ip-address 192.168.0.250 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.61 | |

1.3 WLAN roaming commands

| ID | Command | Value range | Default | Answer |
|--|--|---|-------------------------------|--------|
| WRoa001 | wlan wifi config <wifild> roaming trigger-manual {normal bssid} <xx:xx:xx:xx:xx:xx> | “normal 00:00:00:00:00:00”: connection to best AP “bssid 00:a0:45:d8:b5:29”: the client establishes a con- nection (only) to the access point with the specified MAC address. To return to “normal” mode, the command “bssid 00:00:00:00:00:00” must be executed first. | normal | OK |
| Description | | | | |
| Starts a connection attempt to a defined access point. In “normal” mode, the client establishes a connection to the access point with the corresponding SSID and the best signal quality. In “bssid” mode, an attempt is made to establish a connection to a defined AP, even if other APs offer a stronger signal. For execution, the WLAN module must be enabled (“wlan global-activation enable”) and one of the client modes must be activated. | | | | |
| Example | | | | |
| wlan wifi config 101 roaming trigger-manual bssid 00:a0:45:d8:b5:29 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|---|-------------|-------------------------------|--------|
| WRoa002 | wlan wifi config <wifild> roaming bgScanIdle {value} | 1 ... 5000 | 2 [ms] | |
| Description | | | | |
| Time in ms during which no data to be transmitted is pending in order to be considered “free”. Waits until the network is “free” so that active communication is not interrupted by a scan. | | | | |
| Example | | | | |
| wlan wifi config 101 roaming bgScanIdle 2 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|--|-------------|-------------------------------|--------|
| WRoa003 | wlan wifi config <wifild> roaming rssiThrshForceS- can {value} | -1 ... -94 | -90 [dBm] | |
| Description | | | | |
| RSSI value below which a client performs a “forced scan”. A “forced scan” terminates an existing WLAN connection and performs an intensive search for a potential access point. This results in a relatively long communication interruption. For this reason, the threshold for normal operation should be set to a very low value. | | | | |
| Example | | | | |
| wlan wifi config 101 roaming rssiThrshForceScan -94 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|---|-------------|-------------------------------|--------|
| WRoa004 | wlan wifi config <wifild> roaming rssiChangeRoam {value} | 1 ... 94 | 4 [dB] | |
| Description | | | | |
| Minimum RSSI difference compared to a stronger access point which still results in a change. If an AP that has a higher signal strength than the current connection is found during a scan, a change only occurs if the new signal strength is better by at least this value. A higher value reduces the number of roaming operations | | | | |
| Example | | | | |
| wlan wifi config 101 roaming rssiChangeRoam 10 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|---|-------------|-------------------------------|--------|
| WRoa005 | wlan wifi config <wifild> roaming rssiChangeBgScan {value} | 1 ... 94 | 5 [dB] | |
| Description | | | | |
| Decrease in the RSSI value, which triggers another background scan. Below the background scan threshold, a new background scan is started if the signal strength has fallen by this amount since the last scan. | | | | |
| Example | | | | |
| wlan wifi config 101 roaming rssiChangeBgScan 3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|--|-------------|-------------------------------|--------|
| WRoa006 | wlan wifi config <wifild> roaming rssiThrshBgScan {value} | -1 ... -94 | -60 [dBm] | |
| Description | | | | |
| RSSI value below which a client performs a background scan. A background scan is started when the signal value of the active connection falls below this threshold value. A background scan briefly interrupts an existing WLAN connection and searches for other access points on other channels. The device then reverts back to the active connection. Below this threshold, the background scan is repeated at least every 10 s. | | | | |
| Example | | | | |
| wlan wifi config 101 roaming rssiThrshBgScan -65 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

1.4 WLAN Client commands

| ID | Command | Value range | Default | Answer |
|---|--|---|-------------------------------|--------|
| WCli001 | wlan wifi config <wifild> scb-manual-mac <value> | wlan wifi config 101 scb-manual-mac 00:A0:45:D8:B5:29 or wlan wifi config 101 scb-manual-mac 00:a0:45:d8:b5:29 | | |
| Description | | | | |
| MAC address that the WLAN device (SCB mode) uses to log into the WLAN. The MAC address of the end device that is connected to the LAN interface of the WLAN device is entered here. The WLAN device uses this MAC address for communication in the wireless network. This means that devices in the WLAN can reach the end device (L2-) in a transparent way. | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|--|---|-------------------------------|--------|
| WCli002 | wlan wifi config <wifild> scb-mode {auto manual} | auto: the WLAN device automatically adopts the MAC address of the end device from the last packet received at the LAN port (if end devices send packets with variable MAC addresses, communication may be aborted). manual: the MAC address used is assigned using the command "wlan wifi config <wifild> scb-manual-mac <value>". | auto | OK |
| Description | | | | |
| Selection of the method for adopting the end device MAC address | | | | |
| Example | | | | |
| wlan wifi config 101 scb-mode manual | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|--|-------------|-------------------------------|--------|
| WCli003 | wlan wifi config <wifild> start-scanning | | | OK |
| Description | | | | |
| Starts a scan process To perform a scan, the WLAN interface must first be enabled via "wlan global-activation enable". The scan results can be displayed via "show wlan wifi <wifild> scan-results". | | | | |
| Example | | | | |
| wlan wifi config 101 start-scanning | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|---|---|-------------------------------|--------|
| Wcli004 | wlan wifi config <wifild> channel-scanlist | all, 1..., 40, 44, ... (depending on the country setting) | all | OK |
| Description | | | | |
| Channels on which the client searches for an AP. Connections are established faster if fewer channels are scanned. | | | | |
| Example | | | | |
| wlan wifi config 101 channel-scanlist 1,6,40 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|--|--------------|-------------------------------|--------|
| Wcli005 | wlan wifi config <wifild> wds-aging-time {value} | 60...4294967 | 60 [s] | |
| Description | | | | |
| Time in seconds after which an ARP entry of an end device downstream of a client in FTB mode is discarded. The time can be increased for network devices that do not send ARP requests for a long period of time. | | | | |
| Example | | | | |
| wlan wifi config 101 wds-aging-time 60 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

1.5 WLAN AP commands

| ID | Command | Value range | Default | Answer |
|--|--|-------------|-------------------------------|--------|
| WAp001 | wlan wifi config <wifid> max-number-clients | 1 ... 10 | 10 | OK |
| Description | | | | |
| Maximum number of WLAN clients that can simultaneously log into this access point. Once the maximum number of clients has been authenticated at the access point, no further clients can be authenticated. | | | | |
| Example | | | | |
| wlan wifi config 101 max-number-clients 2 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|--|--|---------|--------|
| WAp002 | wlan wifi config <wifid> wds-broadcast {enable disable} | disable: only packets known to the WLAN device are forwarded. enable: unicast packets at end devices that are not known to this WLAN device are also forwarded (similar to a switch). | disable | |
| Description | | | | |
| Enables or disables the forwarding of a frame to an unknown MAC address. Activation of the WDS broadcast increases the load in the network; however, it enables a packet to be sent to devices that have not communicated for a long time without having to send another ARP request (see "wds-aging-time"). | | | | |
| Example | | | | |
| wlan wifi config 101 wds-broadcast enable | | | | |

| ID | Command | Value range | Default | Answer |
|---|--|---|---------|--------|
| WAp003 | wlan wifi config <wifid> hide-ssid {enable disable} | disable: the "beacon" packets contain the SSID. enable: the SSID is not displayed in the "beacon" packets. | disable | |
| Description | | | | |
| Enables or disables automatic transmission of the network ID (SSID). An access point with a "hidden SSID" cannot be identified during a scan, but it will usually be shown as an "unknown network". This feature offers a slight improvement in security. | | | | |
| Example | | | | |
| wlan wifi config 101 hide-ssid enable | | | | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| WAp004 | wlan wifi config <wifild> fast-eapol-retry {enable disable} | enable: the connection is terminated immediately in the event of an error. disable: standard-compliant timeouts are observed. | enable | OK |
| Description | | | | |
| Fast login retry on unsuccessful attempts (stabilizes roaming behavior). The feature may have to be deactivated for clients that respond very slowly. | | | | |
| Example | | | | |
| wlan wifi config 101 fast-eapol-retry disable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|---|---|-------------------------------|--------|
| WAp005 | wlan wifi config <wifild> wlan-channel {value} | In standard b, g, and n: (1)...(14) Active in standard a: (36) (40) (44) (48) (indoor8): automatic selection of 36 to 48 (indoor16): automatic selection of 36 to 140 (excluding 120, 124, 128) (Auto): automatic selection of 36 to 165 (indoor) or 100 to 165 (outdoor) Depending on the country settings: (52) (56) (60) (64) (132) (136) (140) (149) (153) (157) (161) (165) | 6 | OK |
| Description | | | | |
| Select WLAN channel (access point only). The possible settings depend on the selected 802.11 standard. This must be set accordingly beforehand. Note: if another VAP is configured as the client, the AP also follows the channel of the client (repeater). | | | | |
| Example | | | | |
| wlan wifi config 101 wlan-channel 40 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

1.6 WLAN VAP commands

| ID | Command | Value range | Default | Answer |
|---|---------------------------|-------------|-------------------------------|--------|
| WVap001 | wlan wifi create <wifild> | 102 | (101 vorhanden) | OK |
| Description | | | | |
| Create a virtual WLAN module (VAP). The first interface (101) is always available. The command is applied immediately ("wlan apply-settings" not required), but is not permanently saved (see "write"). | | | | |
| Example | | | | |
| wlan wifi create 102 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|---------------------------|-------------|-------------------------------|--------|
| WVap002 | wlan wifi delete <wifild> | 102 | | |
| Description | | | | |
| Delete a virtual WLAN module (VAP) The command is applied immediately ("wlan apply-settings" not required), but is not permanently saved (see "write"). The first interface (101) is always available and cannot be deleted. | | | | |
| Example | | | | |
| wlan wifi delete 102 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| WVap003 | wlan wifi config <wifild> operation-mode {ap ftb mcb scb monitor} | ap: access point ftb: "FullyTransparent-Bridge" client mode mcb: "MultiClientBridge" client mode scb: "SingleClientBridge" client mode monitor: monitor mode | ap | OK |
| Description | | | | |
| Select the operating mode of the virtual WLAN module Note: if a VAP is operating in "AP" mode, "SCB" client mode cannot be used for other VAPs. | | | | |
| Example | | | | |
| wlan wifi config 101 operation-mode ap | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|---|--|-------------------------------|--------|
| WVap007 | wlan wifi config <wifild> profile config <profileid> authentication | {none wpa-psk wep64 wep128 wpa2-psk wpa2-eap wpa+wpa2-psk} | wpa2-psk | |
| Description | | | | |
| Set authentication method. We recommend using "wpa2-psk". | | | | |
| Example | | | | |
| wlan wifi config 101 profile config 1 authentication "wpa2-psk" | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|---|-------------------------|-------------------------------|--------|
| WVap008 | wlan wifi config <wifild> profile config <profileid> encryption {aes tkip tkip+aes} | {aes tkip tkip+aes} | aes | |
| Description | | | | |
| Set encryption method. We recommend using "aes". | | | | |
| Example | | | | |
| wlan wifi config 101 profile config 1 encryption "aes" | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| WVap009 | wlan wifi config <wifild> profile config <profileid> psKey {value} | 8 - 63 characters: A...Z, a...z, 0...9, (space) \$%&/()=?![]{}+*-_<> ' WEP 64 (client only): 5 alphanumeric characters or 10 hex characters WEP 128 (client only): 13 alphanumeric characters or 26 hex characters | 2bchanged | |
| Description | | | | |
| Set password for encryption Possible entries depend on the security settings used. It is absolutely essential that a secure password is used in a productive network. | | | | |
| Example | | | | |
| wlan wifi config 101 profile config 1 psKey "My New-Password" | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

1.7 WLAN radio commands

| ID | Command | Value range | Default | Answer |
|-----------------------------------|------------------------------------|--------------------|---------|--------|
| WRd001 | wlan outdoor-mode {enable disable} | {enable disable} | disable | |
| Description | | | | |
| Configure device for use outdoors | | | | |
| Example | | | | |
| wlan outdoor-mode enable | | | | |

| ID | Command | Value range | Default | Answer |
|--------------------------------|----------------------------|-------------|---------|--------|
| WRd002 | wlan country <CountryName> | open | | |
| Description | | | | |
| Country ID of the access point | | | | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| WRd003 | wlan radio <hwld> antenna-mask <value> | 0x1: only port 1 (directional antenna) on 0x2: only port 2 (omnidirectional antenna) on 0x3: port 1 and 2 on | 0x3 | OK |
| Description | | | | |
| Enable/disable antenna connections To achieve full data throughput (MIMO), both antennas should be enabled in normal operation (0x3). For special applications, the range can be increased if the total transmission power is used for the directional antenna (0x1). | | | | |
| Example | | | | |
| wlan radio 1 antenna-mask 0x3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| WRd004 | wlan radio <hwld> aggregation-mode {enable disable} | enable: aggregation on disable: aggregation off | enable | OK |
| Description | | | | |
| Enable packet aggregation for the WLAN device. This function optimizes data throughput in standard n. | | | | |
| Example | | | | |
| wlan radio 1 aggregation-mode enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|--|---|-------------------------------|--------|
| WRd005 | wlan wifi config <wifild> 80211-mode {alblbglanlgn} | a: 5 GHz up to 54 Mbps b: 2.4 GHz up to 11 Mbps bg: 2.4 GHz up to 11 Mbps an: 5 GHz up to 300 Mbps gn: 2.4 GHz up to 300 Mbps | gn | OK |
| Description | | | | |
| Select WLAN band and standard. The standard must be selected before specifying a channel or channel list. | | | | |
| Example | | | | |
| wlan wifi config 101 80211-mode gn | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| WRd006 | wlan wifi config <wifild> channel-bandwidth {20Mhz 40Mhz} | 20mhz: use one WLAN channel 40mhz: bundle two WLAN channels | 20mhz | OK |
| Description | | | | |
| Bundling of two WLAN channels. If the 40 MHz option is selected, a second channel is automatically used if it is not occupied by other systems. | | | | |
| Example | | | | |
| wlan wifi config 101 channel-bandwidth 40mhz | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|---|-------------|-------------------------------|--------|
| WRd007 | wlan wifi config <wifild> tx- power-radiated <value> | 5 ... 20 | 17 | OK |
| Description | | | | |
| Radiated transmission power in dBm (EIRP) The actual transmission power also depends on the regulatory conditions and may be lower than the value set. | | | | |
| Example | | | | |
| wlan wifi config 101 tx-power-radiated 20 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|--|-----------------------|-------------------------------|--------|
| WRd008 | wlan wifi config <wifild> fragment-thresh- old <value> | 0 ... 65535 (0: auto) | 0 | OK |
| Description | | | | |
| open | | | | |
| Example | | | | |
| wlan wifi config 101 fragment-threshold 1024 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

1.8 WLAN global commands

| ID | Command | Value range | Default | Answer |
|--|---|--------------------------------------|-------------------------------|--------|
| WGlo001 | wlan management-access {enable disable} | enable: WLAN on disable: WLAN off | enable | OK |
| Description | | | | |
| Enable/disable configuration access via WLAN | | | | |
| Example | | | | |
| wlan management-access disable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|---|--------------------------------------|-------------------------------|--------|
| WGlo002 | wlan global-activation {enable disable} | enable: WLAN on disable: WLAN off | disable | OK |
| Description | | | | |
| Enable/disable WLAN. The "LNK" LED lights up when the WLAN interface is enabled. | | | | |
| Example | | | | |
| wlan global-activation enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|--|---------------------|-------------|-------------------------------|--------|
| WGlo003 | wlan apply-settings | | | OK |
| Description | | | | |
| Apply setting. After making WLAN configuration changes, this command must be executed to apply all the changes. The changes will not be permanently saved with this command (see "write"). | | | | |
| Example | | | | |
| wlan apply-settings | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

| ID | Command | Value range | Default | Answer |
|---|------------------|-------------|-------------------------------|--------|
| WGlo004 | show wlan global | | | |
| Description | | | | |
| Displays general information about the wireless module settings | | | | |
| Example | | | | |
| show wlan global | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |

1.9 General commands

| ID | Command | Value range | Default | Answer |
|-----------------------------------|---------|-------------|-------------------------------|--------|
| GCom001 | reload | | | OK |
| Description | | | | |
| Device restart | | | | |
| Example | | | | |
| reload | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---------|-------------|-------------------------------|--------|
| GCom002 | logout | | | |
| Description | | | | |
| Exit the CLI session (unsaved changes will be lost). | | | | |
| Example | | | | |
| logout | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|---------|-------------|-------------------------------|------------------|
| GCom003 | help | | | Commandline help |
| Description | | | | |
| Open the CLI help | | | | |
| Example | | | | |
| help | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---------|-------------|-------------------------------|--------|
| GCom004 | quit | | | |
| Description | | | | |
| Exit the CLI session (unsaved changes will be lost). | | | | |
| Example | | | | |
| quit | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--------------------|-------------------|-------------|---------|--------|
| GCom005 | show tech-support | | | |
| Description | | | | |
| | | | | |
| Example | | | | |
| show tech-support | | | | |

| ID | Command | Value range | Default | Answer |
|---|--|--|--|--------|
| GCom006 | users passwd <username> <old-password> <new- password> <repeat-new- password> | <username> Current user name <old-password> Current password <new-password> New password (8 - 64 chars) | <username> = admin <password> = private | OK |
| Description | | | | |
| Change a user password | | | | |
| Example | | | | |
| user passwd admin private Switch123 Switch123 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.10 System commands

| ID | Command | Value range | Default | Answer |
|---|--------------|-------------|-------------------------------|--------|
| SCom001 | show version | | | ERROR |
| Description | | | | |
| Display the device description and hardware information: Serial number Hardware version Firmware version Bootloader version | | | | |
| Example | | | | |
| show version | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---------------|-------------|-------------------------------|---------------------|
| SCom002 | show sys-info | | | OK + parameter list |
| Description | | | | |
| Display the system information: Device name Object ID Device description Contact person Device location | | | | |
| Example | | | | |
| show sys-info | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--------------------------------|-----------------------|-------------------------------|--------|
| SCom003 | device-identity name <name> | <name> max. 256 chars | <name> = leer | OK |
| Description | | | | |
| Change the device name | | | | |
| Example | | | | |
| device-identity name Switch2008_2 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|---------------------------------|-------------------------------|--------|
| SCom004 | device-identity description <description> | <description> max. 256 chars | <description> = leer | OK |
| Description | | | | |
| Change the device description | | | | |
| Example | | | | |
| device-identity description Switch 2008 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-------------------------------------|-------------------------------------|---------------------------|-------------------------------|--------|
| SCom005 | device-identity location <location> | <location> max. 256 chars | <location> = leer | OK |
| Description | | | | |
| Change the device location | | | | |
| Example | | | | |
| device-identity location Building 2 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-----------------------------------|--------------------------|-------------------------------|--------|
| SCom006 | device-identity contact <contact> | <contact> max. 256 chars | <contact> = leer | OK |
| Description | | | | |
| Change the contact person | | | | |
| Example | | | | |
| device-identity contact Mr. Doe | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.11 Event Table commands

| ID | Command | Value range | Default | Answer |
|---|------------------|-------------|-------------------------------|------------------------|
| ETab001 | show event-table | | | Entries of event table |
| Description | | | | |
| Display the event table with the following columns: Index Event Device runtime | | | | |
| Example | | | | |
| show event-table | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-------------------|-------------|-------------------------------|--------|
| ETab002 | clear event-table | | | OK |
| Description | | | | |
| Delete/clear the event table | | | | |
| Example | | | | |
| clear event-table | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.12 MAC Address Table commands

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--------------------------------------|-------------|-------------------------------|------------------------|
| MTab001 | management-access {enable disable} | | | OK + MAC address table |
| Description | | | | |
| Display the MAC address table | | | | |
| Example | | | | |
| show mac-address-table | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|------------------------|--------------------------------------|-------------------------------|--------|
| MTab002 | wlan global-activation | enable: WLAN on disable: WLAN off | disable | OK |
| Description | | | | |
| Enable/disable WLAN The "LNK" LED lights up when the WLAN interface is enabled | | | | |
| Example | | | | |
| wlan global-activation enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.13 FW Image Handling commands

| ID | Command | Value range | Default | Answer |
|---|--------------------------------------|---|-------------------------------|--------|
| FImg001 | management-access {enable disable} | <ip-address> IP address (xxx.xxx.xxx.xxx) <filename> File name of the firmware image | | OK |
| Description | | | | |
| Transfer of a firmware image file to the device. The firmware update is performed immediately, the device then restarts and the CLI connection is terminated. | | | | |
| Example | | | | |
| file-transfer tftp write-to-device firmware 192.168.0.1 FL_SWITCH_2000_v1_00.bin | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.14 Memcard commands

| ID | Command | Value range | Default | Answer |
|--|--------------------------------------|-------------|-------------------------------|----------------|
| MCrd001 | management-access {enable disable} | | | OK + parameter |
| Description | | | | |
| Display the SD card information: Status of the SD card Status of the configuration file on the SD card Name of the configuration on the SD card IP address of the configuration creator Firmware version of the configuration creator Serial number of the SD card | | | | |
| Example | | | | |
| show mem-card | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|------------------------|--------------------------------------|-------------------------------|--------|
| MCrd002 | wlan global-activation | enable: WLAN on disable: WLAN off | disable | OK |
| Description | | | | |
| Enable/disable WLAN The "LNK" LED lights up when the WLAN interface is enabled | | | | |
| Example | | | | |
| wlan global-activation enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.15 Script Handling commands

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--------------------------------------|-------------|-------------------------------|--------|
| Scpt001 | management-access {enable disable} | | | |
| Description | | | | |
| | | | | |
| Example | | | | |
| show script | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|------------------------|--------------------------------------|-------------------------------|--------|
| Scpt002 | wlan global-activation | enable: WLAN on disable: WLAN off | disable | OK |
| Description | | | | |
| Enable/disable WLAN The "LNK" LED lights up when the WLAN interface is enabled | | | | |
| Example | | | | |
| wlan global-activation enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL WLAN 1100/2100 | | | 1.0 | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.16 Network commands

| ID | Command | Value range | Default | Answer |
|---|--------------|-------------|-------------------------------|-----------------|
| NW001 | show network | | | OK + Parameters |
| Description | | | | |
| Display the current network parameters: IP address assignment (static, BootP, DHCP) IP address Network mask Default gateway Management VLAN Address Conflict Detection (ACD) mode | | | | |
| Example | | | | |
| show network | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|---|--|--------|
| NW002 | network parms <ip-address> <netmask> [gateway] | <ip-address> IP address (xxx.xxx.xxx.xxx) <netmask> Subnet mask (xxx.xxx.xxx.xxx) [gateway] Default gateway (xxx.xxx.xxx.xxx) | <ip-address> = 0.0.0.0 <netmask> = 0.0.0.0 [gateway] = 0.0.0.0 | OK |
| Description | | | | |
| Change the network parameters: IP address Network mask Default gateway | | | | |
| Example | | | | |
| network parms 192.168.0.150 255.255.255.0 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--|---|-------------------------------|--------|
| NW003 | network protocol {bootp dhcp none} | {bootp dhcp none} Selection of the network protocol for IP address assignment | bootp | OK |
| Description | | | | |
| Change the IP address assignment | | | | |
| Example | | | | |
| network protocol dhcp | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-----------------------------|------------------------------|-------------------------------|--------|
| NW004 | network mgmt-vlan <vlan-id> | <vlan-id> VLAN ID (1 - 4000) | <vlan-id> = 1 | OK |
| Description | | | | |
| Change the management VLAN | | | | |
| Example | | | | |
| network mgmt-vlan 2 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|-------------------------------|--|-------------------------------|--------|
| NW005 | network acd-mode {acd none} | {acd none} Selection of the ACD mode | none | OK |
| Description | | | | |
| Change the ACD (Address Conflict Detection) mode | | | | |
| Example | | | | |
| network acd-mode acd | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.17 FLOS Services commands

| ID | Command | Value range | Default | Answer |
|---|--------------|-------------|-------------------------------|----------------|
| Mng001 | show service | | | OK + parameter |
| Description | | | | |
| Status indicator for all of the following services: Web server SNMP server CLI service CLI network scripting UI (CLI command entry via URL) | | | | |
| Example | | | | |
| show service | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--|--|-------------------------------|--------|
| Mng002 | service cli-service {disable telnet ssh} | {disable telnet ssh} Selection of the CLI service protocol | telnet | OK |
| Description | | | | |
| Change the CLI service protocol | | | | |
| Example | | | | |
| service cli-service telnet | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|-----------------------------------|-------------------------------|--------|
| Mng003 | service cli-network-script-ui {enable disable} | {enable disable} Enable/disable | enable | OK |
| Description | | | | |
| Activation/deactivation of the CLI network scripting UI (CLI command entry via URL) | | | | |
| Example | | | | |
| service cli-network-script-ui disable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|---|---|-------------------------------|--------|
| Mng004 | service web-server {disable http https} | {disable http https} Selection of the web server protocol | http | OK |
| Description | | | | |
| Change the web server protocol | | | | |
| Example | | | | |
| service web-server https | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--|---|-------------------------------|--------|
| Mng005 | service snmp-agent {disable snmp-v2 snmp-v3} | {disable snmp-v2 snmp-v3} Selection of the SNMP version | snmp-v2 | OK |
| Description | | | | |
| Change the SNMP server | | | | |
| Example | | | | |
| service snmp-agent snmp-v2 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.18 LLDP commands

| ID | Command | Value range | Default | Answer |
|---|------------------------|-------------|-------------------------------|--------------------------|
| LLDP001 | show lldp topology all | | | OK + LLDP topology table |
| Description | | | | |
| Tabular display of the LLDP topology with the following columns: Local port Chassis ID of the connected device IP address of the connected device Remote port of the connected device Description of the remote port on the connected device | | | | |
| Example | | | | |
| show lldp topology all | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|------------------|-------------|-------------------------------|-----------------|
| LLDP002 | show lldp global | | | OK + Parameters |
| Description | | | | |
| Display the configuration parameters: LLDP status LLDP transmission interval LLDP transmit port LLDP receive port | | | | |
| Example | | | | |
| show lldp global | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--------------------------------------|-----------------------|-------------------------------|-------------------------|
| LLDP003 | show lldp topology port-no <port-no> | <port-no> Port number | | OK + LLDP port topology |
| Description | | | | |
| Display the topology information at a port: Complete chassis ID Complete port name System name System description | | | | |
| Example | | | | |
| show lldp topology port-no 3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--------------------------------|---------------------------------------|-------------------------------|--------|
| LLDP004 | lldp status {enable disable} | {enable disable} Enable/ disable | enable | OK |
| Description | | | | |
| Change the LLDP status | | | | |
| Example | | | | |
| lldp status enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---------------------------------------|--------------------------|--|-------------------------------|--------|
| LLDP005 | lldp tx-interval <value> | <value> Interval in seconds (5 - 32768) | 5 | OK |
| Description | | | | |
| Change the LLDP transmission interval | | | | |
| Example | | | | |
| lldp tx-interval 10 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---------------------------------------|-------------------------------------|---|-------------------------------|--------|
| LLDP006 | lldp port-tx enable <port- list> | <port-list> Comma-sepa- rated list of port numbers | all enable | OK |
| Description | | | | |
| Activation of the LLDP transmit ports | | | | |
| Example | | | | |
| lldp port-tx enable 3,4,8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--------------------------------------|---|-------------------------------|--------|
| LLDP007 | lldp port-tx disable <port- list> | <port-list> Comma-sepa- rated list of port numbers | no disable | OK |
| Description | | | | |
| Deactivation of the LLDP transmit ports | | | | |
| Example | | | | |
| lldp port-tx disable 3,4,8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--------------------------------------|---------------------------------|--|-------------------------------|--------|
| LLDP008 | lldp port-rx enable <port-list> | <port-list> Comma-separated list of port numbers | all enable | OK |
| Description | | | | |
| Activation of the LLDP receive ports | | | | |
| Example | | | | |
| lldp port-rx enable 3,4,8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|----------------------------------|--|-------------------------------|--------|
| LLDP009 | lldp port-rx disable <port-list> | <port-list> Comma-separated list of port numbers | no disable | OK |
| Description | | | | |
| Deactivation of the LLDP receive ports | | | | |
| Example | | | | |
| lldp port-rx disable 3,4,8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.19 Port Features commands

| ID | Command | Value range | Default | Answer |
|---|--------------------|-------------|-------------------------------|----------------|
| PFtr001 | show port-info all | | | OK + parameter |
| Description | | | | |
| Display the basic parameters of all ports: Port number Port name Port type Port status Port mode | | | | |
| Example | | | | |
| show port-info all | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|-------------------------------------|-----------------------|-------------------------------|----------------|
| PFtr002 | show port-info port-no <port-no> | <port-no> Port number | | OK + parameter |
| Description | | | | |
| Display the basic parameters of one port: Port number Port name Port type Port status Port mode Status flow control Status link monitoring | | | | |
| Example | | | | |
| show port-info port-no 3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|-------------------------------------|-----------------------|-------------------------------|----------------|
| PFtr003 | show port-stat port-no <port-no> | <port-no> Port number | | OK + parameter |
| Description | | | | |
| Display the port statistics of one port | | | | |
| Example | | | | |
| show port-stat port-no 3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|----------------------------------|-----------------------|-------------------------------|----------------|
| PFtr004 | show port-util port-no <port-no> | <port-no> Port number | | OK + parameter |
| Description | | | | |
| Display the RX and TX utilization of one port | | | | |
| Example | | | | |
| show port-util port-no 3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--------------------|-------------|-------------------------------|----------------|
| PFtr005 | show port-util all | | | OK + parameter |
| Description | | | | |
| Display the RX and TX utilization of all ports | | | | |
| Example | | | | |
| show port-util all | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--|--|-------------------------------|--------|
| PFtr006 | port <port-no> admin-mode {enable disable} | <port-no> Port number {enable disable} Enable/ disable | all enable | OK |
| Description | | | | |
| Activation/deactivation of a port | | | | |
| Example | | | | |
| port 3 admin-mode disable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|------------------------------|-----------------------|-------------------------------|--------|
| PFtr007 | port <port-no> modus autoneg | <port-no> Port number | | OK |
| Description | | | | |
| Activation/deactivation of auto-negotiation on one port | | | | |
| Example | | | | |
| port 3 modus autoneg | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---------------------------------|-----------------------|-------------------------------|--------|
| PFtr008 | port <port-no> modus auto10_100 | <port-no> Port number | | OK |
| Description | | | | |
| Activation/deactivation of auto-negotiation on one port (only 10/100 Mbps, not 1000 Mbps) | | | | |
| Example | | | | |
| port 3 modus auto10_100 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 2.01 | |

| ID | Command | Value range | Default | Answer |
|---|--|---|-------------------------------|--------|
| PFtr009 | port <port-no> modus speed <speed> {half-duplex full-duplex} | <port-no> Port number <speed> Transmission speed in Mbps (selection options: {10 100 1000}) {half-duplex full-duplex} Selection of the duplex mode | | OK |
| Description | | | | |
| Change the transmission speed and duplex mode on one port | | | | |
| Example | | | | |
| port 3 modus speed 100 half-duplex | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|----------------------------------|-----------------------|-------------------------------|--------|
| PFtr010 | port <port-no> modus faststartup | <port-no> Port number | | OK |
| Description | | | | |
| Activation/deactivation of Fast Startup mode on one port. | | | | |
| Example | | | | |
| port 3 modus faststartup | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-----------------------------------|---|-------------------------------|--------|
| PFtr011 | port <port-no> description <text> | <port-no> Port number <text> Port designation (0 - 31 chars) | <text> = leer | OK |
| Description | | | | |
| Change the port name | | | | |
| Example | | | | |
| port 3 description RingPort1 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|---|-------------------------------|--------|
| PFtr012 | port <port-no> link-monitoring {enable disable} | <port-no> Port number {enable disable} Enable/disable | all disable | OK |
| Description | | | | |
| Activation/deactivation of link monitoring on one port | | | | |
| Example | | | | |
| port 3 link-monitoring disable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|---|-------------------------------|--------|
| PFtr013 | port <port-no> flow-control {enable disable} | <port-no> Port number {enable disable} Enable/disable | all disable | OK |
| Description | | | | |
| Activation/deactivation of flow control on one port | | | | |
| Example | | | | |
| port 3 flow-control disable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.20 Port Mirroring commands

| ID | Command | Value range | Default | Answer |
|--|------------------|-------------|-------------------------------|----------------|
| PMir001 | show port-mirror | | | OK + parameter |
| Description | | | | |
| Display the port mirroring parameters: Global status Receive port (mirroring port) Mirrored ports (incoming traffic) Mirrored ports (outgoing traffic) | | | | |
| Example | | | | |
| show port-mirror | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---------------------------------------|-----------------------------------|-------------------------------|--------|
| PMir002 | port-mirror status {enable disable} | {enable disable} Enable/disable | disable | OK |
| Description | | | | |
| Activation/deactivation of the global port mirroring status | | | | |
| Example | | | | |
| port-mirror status enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|----------------------------|-----------------------|-------------------------------|--------|
| PMir003 | port-mirror dest <port-no> | <port-no> Port number | 1 | OK |
| Description | | | | |
| Change the receive port (mirroring port) | | | | |
| Example | | | | |
| port-mirror dest 8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|--|-------------------------------|--------|
| PMir004 | port-mirror ingress enable <port-list> | <port-list> Comma-separated list of port numbers | all disable | OK |
| Description | | | | |
| Activation of RX port mirroring (incoming traffic) on multiple ports | | | | |
| Example | | | | |
| port-mirror ingress enable 3,4,8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|--|-------------------------------|--------|
| PMir005 | port-mirror ingress disable <port-list> | <port-list> Comma-separated list of port numbers | all disable | OK |
| Description | | | | |
| Deactivation of RX port mirroring (incoming traffic) on multiple ports | | | | |
| Example | | | | |
| port-mirror ingress disable 3,4,8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|--|-------------------------------|--------|
| PMir006 | port-mirror egress enable <port-list> | <port-list> Comma-separated list of port numbers | all disable | OK |
| Description | | | | |
| Activation of TX port mirroring (outgoing traffic) on multiple ports | | | | |
| Example | | | | |
| port-mirror egress enable 3,4,8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| PMir007 | port-mirror egress disable <port-list> | <port-list> Comma-separated list of port numbers | all disable | OK |
| Description | | | | |
| Deactivation of TX port mirroring (outgoing traffic) on multiple ports | | | | |
| Example | | | | |
| port-mirror egress disable 3,4,8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.21 VLAN commands

| ID | Command | Value range | Default | Answer |
|-----------------------------------|------------------|-------------|-------------------------------|----------------|
| Vlan001 | show vlan global | | | OK + parameter |
| Description | | | | |
| Display the current VLAN mode | | | | |
| Example | | | | |
| show vlan global | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|------------------------|-------------|-------------------------------|------------------------|
| Vlan002 | show vlan static-table | | | OK + VLAN static table |
| Description | | | | |
| Display the static VLAN table: VLAN ID VLAN name Device ports (untagged) Device ports (tagged) | | | | |
| Example | | | | |
| show vlan static-table | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|-------------------------|-------------|---------|--------|
| Vlan003 | show vlan current-table | | | |
| Description | | | | |
| Display the current VLAN table: VLAN ID VLAN name Device ports (untagged) Device ports (tagged) | | | | |
| Example | | | | |
| show vlan current-table | | | | |

| ID | Command | Value range | Default | Answer |
|---|----------------------|-------------|-------------------------------|----------------------|
| Vlan004 | show vlan port-table | | | OK + VLAN port table |
| Description | | | | |
| Display the port-based static VLAN table for all ports: VLAN ID VLAN name Device ports (untagged) Device ports (tagged) | | | | |
| Example | | | | |
| show vlan port-table | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--------------------------|-----------------------|-------------------------------|----------------|
| Vlan005 | show vlan port <port-no> | <port-no> Port number | | OK + parameter |
| Description | | | | |
| Display the port-based static VLAN table for one port: VLAN ID VLAN name Device ports (untagged) Device ports (tagged) | | | | |
| Example | | | | |
| show vlan port 3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|-----------------------------|------------------------------|-------------------------------|----------------|
| Vlan006 | show vlan vlan-id <vlan-id> | <vlan-id> VLAN ID (1 - 4000) | | OK + parameter |
| Description | | | | |
| Display the VLAN information for a VLAN: VLAN ID VLAN name Device ports (untagged) Device ports (tagged) | | | | |
| Example | | | | |
| show vlan vlan-id 3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|------------------------------------|---|-------------------------------|--------|
| Vlan007 | vlan status {transparent tagged} | {transparent tagged} Selection of the VLAN mode | transparent | OK |
| Description | | | | |
| Change the VLAN mode | | | | |
| Example | | | | |
| vlan status tagged | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-----------------------|------------------------------|-------------------------------|--------|
| Vlan008 | vlan create <vlan-id> | <vlan-id> VLAN ID (1 - 4000) | | OK |
| Description | | | | |
| Create a new static VLAN | | | | |
| Example | | | | |
| vlan create 5 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-----------------------|------------------------------|-------------------------------|--------|
| Vlan009 | vlan delete <vlan-id> | <vlan-id> VLAN ID (1 - 4000) | | OK |
| Description | | | | |
| Delete a static VLAN | | | | |
| Example | | | | |
| vlan delete 5 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--|--|-------------------------------|--------|
| Vlan010 | vlan static <vlan-id> name <vlan-name> | <vlan-id> VLAN ID (1 - 4000) <vlan-name> VLAN name (0 - 31 chars) | | OK |
| Description | | | | |
| Change the name of a static VLAN | | | | |
| Example | | | | |
| vlan static 5 name VLAN_5 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| Vlan011 | vlan static <vlan-id> tagged-mem-ports <port-list> | <vlan-id> VLAN ID (1 - 4000) <port-list> Comma-separated list of port numbers | | OK |
| Description | | | | |
| Assignment of device ports (tagged) to a VLAN | | | | |
| Example | | | | |
| vlan static 5 tagged-mem-ports | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| Vlan012 | vlan static <vlan-id> untagged-mem-ports <port-list> | <vlan-id> VLAN ID (1 - 4000) <port-list> Comma-separated list of port numbers | | OK |
| Description | | | | |
| Assignment of device ports (untagged) to a VLAN | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-------------------------------------|---|--|-------------------------------|--------|
| Vlan013 | vlan static <vlan-id> no-member <port-list> | <vlan-id> VLAN ID (1 - 4000) <port-list> Comma-separated list of port numbers | | OK |
| Description | | | | |
| Removal of device ports from a VLAN | | | | |
| Example | | | | |
| vlan static 5 no-member | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|------------------------------------|---|-------------------------------|--------|
| Vlan014 | vlan port <port-no> vlan <vlan-id> | <port-no> Port number <vlan-id> VLAN ID (1 - 4000) | | OK |
| Description | | | | |
| Assignment of a default VLAN ID to a port | | | | |
| Example | | | | |
| vlan port 3 vlan 5 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--------------------------------------|---|-------------------------------|--------|
| Vlan015 | vlan port <port-no> priority <value> | <port-no> Port number <value> Priority (0 - 7) | 0 | OK |
| Description | | | | |
| Assignment of a default priority to a port | | | | |
| Example | | | | |
| vlan port 3 priority | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|--|-------------------------------|--------|
| Vlan016 | vlan port <port-no> ingress-filter {enable disable} | <port-no> Port number {enable disable} Enable/disable | all disable | OK |
| Description | | | | |
| Activation/deactivation of the ingress filter at a port | | | | |
| Example | | | | |
| vlan port 3 ingress-filter disable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.22 Multicast commands

| ID | Command | Value range | Default | Answer |
|--|---------------------|-------------|-------------------------------|----------------|
| MC001 | show multicast igmp | | | OK + parameter |
| Description | | | | |
| Display the IGMP snooping information: Status IGMP Snooping Snoop Aging Time IGMP Query Version Query interval Status of IGMP extension FUQ Status of IGMP extension BUQ Status of IGMP extension auto query port List of static query ports | | | | |
| Example | | | | |
| show multicast igmp | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|------------------------------|-------------|---------|---------------------|
| MC002 | show multicast static-groups | | | OK + parameter list |
| Description | | | | |
| Tabular display of the static multicast groups with the following columns: Multicast address VLAN ID Member ports including status | | | | |
| Example | | | | |
| show multicast static-groups | | | | |

| ID | Command | Value range | Default | Answer |
|--|-------------------------------|-------------|-------------------------------|--------------------------------|
| MC003 | show multicast current-groups | | | OK + current multi-cast groups |
| Description | | | | |
| Tabular display of the current multicast groups with the following columns: VLAN ID Multicast address Port member | | | | |
| Example | | | | |
| show multicast current-groups | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|-----------------------------------|-------------------------------|--------|
| MC004 | multicast igmp snoop status {enable disable} | {enable disable} Enable/disable | disable | OK |
| Description | | | | |
| Activation/deactivation of IGMP snooping | | | | |
| Example | | | | |
| multicast igmp snoop status enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|------------------------------------|---|-------------------------------|--------|
| MC005 | multicast igmp snoop aging <value> | <value> Aging time in seconds (30 - 3600) | <value> = 300 | OK |
| Description | | | | |
| Change the aging time | | | | |
| Example | | | | |
| multicast igmp snoop aging | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--|--|-------------------------------|--------|
| MC006 | multicast igmp querier version {disable v1 v2} | {disable v1 v2} Selection of the querier version | disable | OK |
| Description | | | | |
| Change the querier version | | | | |
| Example | | | | |
| multicast igmp querier version v2 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|---|---|-------------------------------|--------|
| MC007 | multicast igmp querier interval <value> | <value> Querier interval in seconds (10 - 3600) | <value> = 125 | OK |
| Description | | | | |
| Change the querier interval | | | | |
| Example | | | | |
| multicast igmp querier interval | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|-----------------------------------|-------------------------------|--------|
| MC008 | multicast igmp extension fuq {enable disable} | {enable disable} Enable/disable | enable | OK |
| Description | | | | |
| Activation/deactivation of the IGMP extension FUQ | | | | |
| Example | | | | |
| multicast igmp extension fuq enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|-----------------------------------|-------------------------------|--------|
| MC009 | multicast igmp extension buq {enable disable} | {enable disable} Enable/disable | enable | OK |
| Description | | | | |
| Activation/deactivation of the IGMP extension BUQ | | | | |
| Example | | | | |
| multicast igmp extension buq enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|-----------------------------------|-------------------------------|--------|
| MC010 | multicast igmp extension auto-query {enable disable} | {enable disable} Enable/disable | enable | OK |
| Description | | | | |
| Activation/deactivation of the IGMP extension auto query port | | | | |
| Example | | | | |
| multicast igmp extension auto-query disable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|-------------|-------------------------------|--------|
| MC011 | multicast igmp extension clear-auto-query | | | OK |
| Description | | | | |
| Delete all auto query ports | | | | |
| Example | | | | |
| multicast igmp extension clear-auto-query | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|--|-------------------------------|--------|
| MC012 | multicast igmp extension static-query-port add <port-list> | <port-list> Comma-separated list of port numbers | | OK |
| Description | | | | |
| Add static query ports | | | | |
| Example | | | | |
| multicast igmp extension static-query-port add | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|--|-------------------------------|--------|
| MC013 | multicast igmp extension static-query-port remove <port-list> | <port-list> Comma-separated list of port numbers | | OK |
| Description | | | | |
| Delete static query ports | | | | |
| Example | | | | |
| multicast igmp extension static-query-port remove | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|--|---------|--------|
| MC014 | multicast static create <mac-address> <vlan-id> | <mac-address> Multicast MAC address (xx:xx:xx:xx:xx:xx) <vlan-id> Multicast VLAN ID | | OK |
| Description | | | | |
| Generate a new static multicast group | | | | |
| Example | | | | |
| multicast static create 01:00:5e:00:18:0e 1 | | | | |

| ID | Command | Value range | Default | Answer |
|---|---|--|---------|--------|
| MC015 | multicast static delete <mac-address> <vlan-id> | <mac-address> Multicast MAC address (xx:xx:xx:xx:xx:xx) <vlan-id> Multicast VLAN ID | | OK |
| Description | | | | |
| Delete an existing static multicast group | | | | |
| Example | | | | |
| multicast static delete 01:00:5e:00:18:0e 1 | | | | |

| ID | Command | Value range | Default | Answer |
|---|--|---|---------|--------|
| MC016 | multicast static configure <mac-address> <vlanid> static-mem-ports <port-list> | <mac-address> Multicast MAC address (xx:xx:xx:xx:xx:xx) <vlan-id> Multicast VLAN ID <port-list> Comma-sepa- rated list of port numbers | | OK |
| Description | | | | |
| Add ports to a static multicast group | | | | |
| Example | | | | |
| multicast static configure 01:00:5e:00:18:0e 1 static-mem-ports 3,5,8 | | | | |

| ID | Command | Value range | Default | Answer |
|--|---|---|---------|--------|
| MC017 | multicast static configure <mac-address> <vlanid> forbidden-mem-ports <port- list> | <mac-address> Multicast MAC address (xx:xx:xx:xx:xx:xx) <vlan-id> Multicast VLAN ID <port-list> Comma-sepa- rated list of port numbers | | OK |
| Description | | | | |
| Forbid membership of ports in a static multicast group | | | | |
| Example | | | | |
| multicast static configure 01:00:5e:00:18:0e 1 forbidden-mem-ports 3,5,8 | | | | |

| ID | Command | Value range | Default | Answer |
|--|---|---|---------|--------|
| MC018 | multicast static configure <mac-address> <vlanid> no-member <port-list> | <mac-address> Multicast MAC address (xx:xx:xx:xx:xx:xx) <vlan-id> Multicast VLAN ID <port-list> Comma-sepa- rated list of port numbers | | OK |
| Description | | | | |
| Delete ports from a static multicast group | | | | |
| Example | | | | |
| multicast static configure 01:00:5e:00:18:0e 1 no-member 3,5,8 | | | | |

1.23 RSTP commands

| ID | Command | Value range | Default | Answer |
|---|---------------------------|-------------|-------------------------------|----------------|
| RSTP001 | show spanning-tree global | | | OK + parameter |
| Description | | | | |
| Display the RSTP information: Status RSTP Mode Status Large Tree Support Status Fast Ring Detection Bridge Priority Bridge Hello Time Bridge Forward Delay Bridge Max Age MAC address of the root Root Port Root Cost Number of topology changes Last topology change Hello Time Forward Delay Max Age | | | | |
| Example | | | | |
| show spanning-tree global | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|-----------------------|-------------------------------|----------------|
| RSTP002 | show spanning-tree port port-no <port-no> | <port-no> Port number | | OK + parameter |
| Description | | | | |
| Display the RSTP information for a specific port: Status RSTP Mode Admin Path Cost Operating Path Cost Status Auto Edge Status Admin Edge Status Operating Edge Priority Number of forward transitions MAC address of the root MAC address of the bridge Port ID Cost | | | | |
| Example | | | | |
| show spanning tree port port-no 3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|-----------------------------|-------------|-------------------------------|-----------|
| RSTP003 | show spanning-tree port all | | | OK + Port |
| Description | | | | |
| Tabular display of the RSTP information for a specific port with the following columns: Port number Status RSTP Mode Path Cost Operating Edge Blocking State Protocol Role | | | | |
| Example | | | | |
| show spanning-tree port all | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|---|-----------------------------------|--|--------|
| RSTP004 | spanning-tree status {disable 802.1w} | {disable 802.1w} Disable/enable | Firmware revision 1.00: disable From Firmware revision 2.01: 802.1w | OK |
| Description | | | | |
| Activation/deactivation of RSTP | | | | |
| Example | | | | |
| spanning-tree status 802.1w | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--------------------------------------|-----------------------------------|-------------------------------|--------|
| RSTP005 | spanning-tree lts {enable disable} | {enable disable} Enable/disable | disable | OK |
| Description | | | | |
| Activation/deactivation of Large Tree Support | | | | |
| Example | | | | |
| spanning-tree lts enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--------------------------------------|-----------------------------------|-------------------------------|--------|
| RSTP006 | spanning-tree frd {enable disable} | {enable disable} Enable/disable | disable | OK |
| Description | | | | |
| Activation/deactivation of Fast Ring Detection | | | | |
| Example | | | | |
| spanning-tree frd enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-----------------------------------|---|-------------------------------|--------|
| RSTP007 | spanning-tree bdg-prio <value> | <value> Bridge Priority (0 - 61440 in increments of 4096) | <value> = 32768 | OK |
| Description | | | | |
| Change the Bridge Priority | | | | |
| Example | | | | |
| spanning-tree bdg-prio 4096 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-------------------------------------|--|-------------------------------|--------|
| RSTP008 | spanning-tree hello-time <value> | <value> Hello time in seconds (1 - 10) | <value> = 2 | OK |
| Description | | | | |
| Change the Bridge Hello Time | | | | |
| Example | | | | |
| spanning-tree hello-time 3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|------------------------------------|--|-------------------------------|--------|
| RSTP009 | spanning-tree fwd-delay <value> | <value> Bridge Forward Delay in seconds (4 - 30) | <value> = 15 | OK |
| Description | | | | |
| Change the Bridge Forward Delay | | | | |
| Example | | | | |
| spanning-tree fwd-delay 20 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|----------------------------------|--|-------------------------------|--------|
| RSTP010 | spanning-tree max-age <value> | <value> Bridge Max Age in seconds (6 - 40) | <value> = 20 | OK |
| Description | | | | |
| Change the Bridge Max Age | | | | |
| Example | | | | |
| spanning-tree max-age 25 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| RSTP011 | spanning-tree port <port-no> status {enable disable} | <port-no> Port number {enable disable} Enable/disable | all enable | OK |
| Description | | | | |
| Activation/deactivation of RSTP for a specific port | | | | |
| Example | | | | |
| spanning-tree port 3 status disable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|--|-------------------------------|--------|
| RSTP012 | spanning-tree port <port-no> path-cost <value> | <port-no> Port number <value> Path cost (0 = automatic detection based on the current port speed; 1 - 200000000 = manual setting) | <value> = 0 | OK |
| Description | | | | |
| Change the path cost for a specific port | | | | |
| Example | | | | |
| spanning-tree port 3 path-cost 20000 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| RSTP013 | spanning-tree port <port-no> auto-edge {enable disable} | <port-no> Port number {enable disable} Enable/disable | all enable | |
| Description | | | | |
| Activation/deactivation of Auto Edge for a specific port | | | | |
| Example | | | | |
| spanning-tree port 3 auto-edge enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|--|-------------------------------|--------|
| RSTP014 | spanning-tree port <port-no> admin-edge {edge non-edge} | <port-no> Port number {edge non-edge} Selection of Admin Edge | all non-edge | |
| Description | | | | |
| Activation/deactivation of Admin Edge for a specific port | | | | |
| Example | | | | |
| spanning-tree port 3 admin-edge non-edge | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|---|-------------------------------|--------|
| RSTP015 | spanning-tree port <port-no> priority <value> | <port-no> Port number <value> Priority (0 - 240 in increments of 16) | <value> = 128 | OK |
| Description | | | | |
| Change the priority for a specific port | | | | |
| Example | | | | |
| spanning-tree port 3 priority 192 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|-----------------------|-------------------------------|--------|
| RSTP016 | spanning-tree port <port-no> force-rstp | <port-no> Port number | | OK |
| Description | | | | |
| Force change from STP to RSTP for a specific port | | | | |
| Example | | | | |
| spanning-tree port 3 force-rstp | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.24 MRP commands

| ID | Command | Value range | Default | Answer |
|---|----------|-------------|-------------------------------|----------------|
| MRP001 | show mrp | | | OK + parameter |
| Description | | | | |
| Display the MRP information: Domain name MRP UUID MRP device status Status of MRP manager function MRP VLAN ID Ring port 1 Ring port 2 MRP manager priority level Ring status Counter for status change in the ring Last status change in the ring | | | | |
| Example | | | | |
| show mrp | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|------------------------------------|---|-------------------------------|--------|
| MRP002 | mrp mode {none client manager} | {none client manager} Selection of the MRP mode | none | OK |
| Description | | | | |
| Change the MRP device status | | | | |
| Example | | | | |
| mrp mode client | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-----------------------------------|--|------------------------------------|--------|
| MRP003 | mrp ports <mrp-port1> <mrp-port2> | <mrp-port1> Port number for MRP port 1 <mrp-port2> Port number for MRP port 2 | <mrp-port1> = 1 <mrp-port2> = 2 | OK |
| Description | | | | |
| Change the MRP ports | | | | |
| Example | | | | |
| mrp ports 3 4 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--------------------|------------------------------|-------------------------------|--------|
| MRP004 | mrp vlan <vlan-id> | <vlan-id> VLAN ID (1 - 4000) | <vlan-id> = 1 | OK |
| Description | | | | |
| Change the MRP VLAN ID | | | | |
| Example | | | | |
| mrp vlan 2 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|------------------------|---|--|--------|
| MRP005 | mrp uuid <UUID-string> | <UUID-string> MRP UUID (xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx) | <UUID-string> = ffffffff-ffff-ffff-ffff-ffffffffffff | OK |
| Description | | | | |
| Change the MRP UUID | | | | |
| Example | | | | |
| mrp uuid ffffffff-ffff-ffff-ffff-ffffffffffff | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--------------------------|---|-------------------------------|--------|
| MRP006 | mrp domain-name <string> | <string> MRP domain name (max. 256 chars) | <string> = default-mrpdomain | OK |
| Description | | | | |
| Change the MRP domain name | | | | |
| Example | | | | |
| mrp domain-name mrpdomain2 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|------------------------------|--|-------------------------------|--------|
| MRP007 | mrp manager-priority <value> | <value> MRP manager priority (0 - 61439 in increments of 4096) | <value> = 32768 | OK |
| Description | | | | |
| Change the MRP manager priority | | | | |
| Example | | | | |
| mrp manager-priority 4096 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.25 Security Context commands

| ID | Command | Value range | Default | Answer |
|-------------------------------------|------------------|-------------|-------------------------------|----------------|
| SecC001 | show sec-context | | | OK + parameter |
| Description | | | | |
| Display the security context status | | | | |
| Example | | | | |
| show sec-context | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|----------------------|-------------|-------------------------------|--------|
| SecC002 | sec-context generate | | | OK |
| Description | | | | |
| Generate a security context | | | | |
| Example | | | | |
| sec-context generate | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| SecC003 | file-transfer {tftp http} {write-to-device read-from-device} sec-context <ip-address> <filename> | {tftp http} Selection of the transfer method {write-to-device read-from-device} Selection of the transfer direction <ip-address> IP address (xxx.xxx.xxx.xxx) <filename> File name of the root CA certificate | | OK |
| Description | | | | |
| Transfer of a root CA certificate file to the device or from the device to the PC. | | | | |
| Example | | | | |
| file-transfer tftp write-to-device sec-context 192.168.0.1 cacert.cer | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.26 DHCP commands

| ID | Command | Value range | Default | Answer |
|-----------------------------------|------------------|-------------|-------------------------------|----------------|
| DHCP001 | show dhcp global | | | OK + parameter |
| Description | | | | |
| Display the global DHCP status | | | | |
| Example | | | | |
| show dhcp global | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--------------------------------|-------------|-------------------------------|------------------|
| DHCP002 | show dhcp server current-lease | | | OK + lease table |
| Description | | | | |
| Tabular display of the current DHCP leases (assigned IP addresses): Number Assigned IP address MAC address of the device Local port Status | | | | |
| Example | | | | |
| show dhcp server current-lease | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|-------------------------------|-------------|-------------------------------|------------------|
| DHCP003 | show dhcp server static-lease | | | OK + lease table |
| Description | | | | |
| Tabular display of the current static DHCP leases (assigned IP addresses): Number Assigned IP address MAC address of the device | | | | |
| Example | | | | |
| show dhcp server static-lease | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---------------------------------------|-----------------------|-------------------------------|----------------|
| DHCP004 | show dhcp server port-local <port-no> | <port-no> Port number | | OK + parameter |
| Description | | | | |
| Display the port-based DHCP server information: Port Status of the port-based DHCP server IP address Subnet mask Default gateway DNS server | | | | |
| Example | | | | |
| show dhcp server port-local 3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| DHCP005 | dhcp-service service {none relay-agent server} | {none relay-agent server} Selection of the DHCP server operating mode | none | OK |
| Description | | | | |
| Set the operating mode of the DHCP server | | | | |
| Example | | | | |
| dhcp-service service server | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|---|-------------------------------|--------|
| DHCP006 | dhcp-service relay-agent remote-id {ip mac} | {ip mac} Selection of the relay agent remote ID | ip | OK |
| Description | | | | |
| Change the relay agent remote ID | | | | |
| Example | | | | |
| dhcp-service relay-agent remote-id mac | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|---|-------------------------------|--------|
| DHCP007 | dhcp-service relay-agent server <ip-address> | <ip-address> IP address (xxx.xxx.xxx.xxx) | <ip-address> = 0.0.0.0 | OK |
| Description | | | | |
| Change the DHCP server in relay agent mode | | | | |
| Example | | | | |
| dhcp-service relay-agent server 192.168.0.2 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|--|-------------------------------|--------|
| DHCP008 | dhcp-service relay-agent port-mode enable <port-list> | <port-list> Comma-separated list of port numbers | | OK |
| Description | | | | |
| Activation of the relay agent on multiple ports | | | | |
| Example | | | | |
| dhcp-service relay-agent port-mode enable 3,4,8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| DHCP009 | dhcp-service relay-agent port-mode disable <port-list> | <port-list> Comma-separated list of port numbers | | OK |
| Description | | | | |
| Deactivation of the relay agent on multiple ports | | | | |
| Example | | | | |
| dhcp-service relay-agent port-mode disable 3,4,8 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|---|-------------------------------|--------|
| DHCP010 | dhcp-service server pool-start-addr <ip-address> | <ip-address> IP address (xxx.xxx.xxx.xxx) | <ip-address> = 0.0.0.0 | OK |
| Description | | | | |
| Change the start address of the DHCP pool | | | | |
| Example | | | | |
| dhcp-service server pool-start-addr 192.168.0.3 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--------------------------------------|---|-------------------------------|--------|
| DHCP011 | dhcp-service server pool-size <size> | <size> DHCP pool size (depends on subnet) | <size> = 32 | OK |
| Description | | | | |
| Change the maximum number of IP addresses specified by the DHCP server (size of the address pool) | | | | |
| Example | | | | |
| dhcp-service server pool-size 20 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|--|-------------------------------|--------|
| DHCP012 | dhcp-service server net-mask <net-mask> | <net-mask> Subnet mask (xxx.xxx.xxx.xxx) | <net-mask> = 0.0.0.0 | OK |
| Description | | | | |
| Change the subnet mask that is assigned to the DHCP clients | | | | |
| Example | | | | |
| dhcp-service server net-mask 255.255.255.0 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|---|-------------------------------|--------|
| DHCP013 | dhcp-service server router-ip <ip-address> | <ip-address> IP address (xxx.xxx.xxx.xxx) | <ip-address> = 0.0.0.0 | OK |
| Description | | | | |
| Change the default gateway that is assigned to the DHCP clients | | | | |
| Example | | | | |
| dhcp-service server router-ip 192.168.0.1 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|---|-------------------------------|--------|
| DHCP014 | dhcp-service server dns-ip <ip-address> | <ip-address> IP address (xxx.xxx.xxx.xxx) | <ip-address> = 0.0.0.0 | OK |
| Description | | | | |
| Change the DNS server that is assigned to the DHCP clients | | | | |
| Example | | | | |
| dhcp-service server dns-ip 192.168.10.10 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|--|-------------------------------|--------|
| DHCP015 | dhcp-service server lease-time <value> | <value> DHCP lease time in seconds (300 - 2592000) | <value> = 3600 | OK |
| Description | | | | |
| Change the DHCP lease time (validity of the IP address assignment) | | | | |
| Example | | | | |
| dhcp-service server lease-time 3600 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|-----------------------------------|-------------------------------|--------|
| DHCP016 | dhcp-service server accept-bootp {enable disable} | {enable disable} Enable/disable | enable | OK |
| Description | | | | |
| Activation/deactivation of the acceptance of BootP requests by the DHCP server | | | | |
| Example | | | | |
| dhcp-service server accept-bootp enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|--|-------------------------------|--------|
| DHCP017 | dhcp-service server static-lease create <ip-address> <client-mac-address> | <ip-address> IP address (xxx.xxx.xxx.xxx) <client-mac-address> Client MAC address (xx:xx:xx:xx:xx:xx) | | OK |
| Description | | | | |
| Create a static IP assignment (DHCP lease) for a defined client address (MAC address) | | | | |
| Example | | | | |
| dhcp-service server static-lease create 192.168.0.20 XX:XX:XX:6C:D2:05 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|---|-------------------------------|--------|
| DHCP018 | dhcp-service server static-lease delete <ip-address> | <ip-address> IP address (xxx.xxx.xxx.xxx) | | OK |
| Description | | | | |
| Delete a statically assigned IP address (DHCP lease) | | | | |
| Example | | | | |
| dhcp-service server static-lease delete 192.168.0.20 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|-------------|-------------------------------|--------|
| DHCP019 | dhcp-service server static-lease clear | | | OK |
| Description | | | | |
| Delete all static IP assignments (DHCP lease) | | | | |
| Example | | | | |
| dhcp-service server static-lease clear | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| DHCP020 | dhcp-service server port-local <port-no> status {enable disable} | <port-no> Port number {enable disable} Enable/disable | all disable | OK |
| Description | | | | |
| Activation/deactivation of a port-based DHCP server | | | | |
| Example | | | | |
| dhcp-service server port-local 3 status enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|---|-------------------------------|--------|
| DHCP021 | dhcp-service server port-local <port-no> local-ip <ip-address> | <port-no> Port number <ip-address> IP address (xxx.xxx.xxx.xxx) | <ip-address> = 0.0.0.0 | OK |
| Description | | | | |
| Change an IP address assigned by a port-based DHCP server | | | | |
| Example | | | | |
| dhcp-service server port-local 3 local-ip 192.168.0.30 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|--|--|-------------------------------|--------|
| DHCP022 | dhcp-service server port-local <port-no> net-mask <net-mask> | <port-no> Port number <net-mask> Subnet mask (xxx.xxx.xxx.xxx) | <net-mask> = 0.0.0.0 | OK |
| Description | | | | |
| Change a subnet mask assigned by a port-based DHCP server | | | | |
| Example | | | | |
| dhcp-service server port-local 3 net-mask 255.255.255.0 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|---|-------------------------------|--------|
| DHCP023 | dhcp-service server port-local <port-no> router-ip <ip-address> | <port-no> Port number <ip-address> IP address (xxx.xxx.xxx.xxx) | <ip-address> = 0.0.0.0 | OK |
| Description | | | | |
| Change a default gateway address assigned by a port-based DHCP server | | | | |
| Example | | | | |
| dhcp-service server port-local 3 router-ip 192.168.0.1 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|---|-------------------------------|--------|
| DHCP024 | dhcp-service server port-local <port-no> dns-ip <ip-address> | <port-no> Port number <ip-address> IP address (xxx.xxx.xxx.xxx) | <ip-address> = 0.0.0.0 | OK |
| Description | | | | |
| Change a DNS server address assigned by a port-based DHCP server | | | | |
| Example | | | | |
| dhcp-service server port-local 3 dns-ip 192.168.10.10 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--------------------------------------|--------------------------------------|-------------|-------------------------------|--------|
| DHCP025 | dhcp-service server port-local-clear | | | OK |
| Description | | | | |
| Delete all port-based DHCP servers | | | | |
| Example | | | | |
| dhcp-service server port-local-clear | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.27 Alarm Output commands

| ID | Command | Value range | Default | Answer |
|--|-------------------------------|----------------------------------|-------------------------------|--------|
| AL001 | show alarm-output <output-no> | <output-no> Alarm contact number | | OK |
| Description | | | | |
| Display the alarm contact information: Alarm contact status Alarm contact output status (error state) Event status power supply interrupted Event status link down Event status configuration memory missing Event status MRP ring error | | | | |
| Example | | | | |
| show alarm-output 1 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--|---|-------------------------------|--------|
| AL002 | alarm-output <output-no> global {enable disable} | <output-no> Alarm contact number {enable disable} Enable/disable | enable | OK |
| Description | | | | |
| Change alarm contact status | | | | |
| Example | | | | |
| alarm-output 1 global enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|---|-------------------------------|--------|
| AL003 | alarm-output <output-no> pow-supply-lost {enable disable} | <output-no> Alarm contact number {enable disable} Enable/disable | enable | OK |
| Description | | | | |
| Change event status power supply interrupted | | | | |
| Example | | | | |
| alarm-output 1 pow-supply-lost enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--|--|-------------------------------|--------|
| AL004 | alarm-output <output-no> link-down {enable disable} | <output-no> Alarm contact number {enable disable} Enable/ disable | disable | OK |
| Description | | | | |
| Change event status link down | | | | |
| Example | | | | |
| alarm-output 1 link-down enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|------------------------------------|--|--|-------------------------------|--------|
| AL005 | alarm-output <output-no> mrp {enable disable} | <output-no> Alarm contact number {enable disable} Enable/ disable | disable | OK |
| Description | | | | |
| Change event status MRP ring error | | | | |
| Example | | | | |
| alarm-output 1 mrp enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| AL006 | alarm-output <output-no> plug-mem-miss {enable disable} | <output-no> Alarm contact number {enable disable} Enable/ disable | disable | OK |
| Description | | | | |
| Change event status configuration memory missing | | | | |
| Example | | | | |
| alarm-output 1 plug-mem-miss enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|--|---------|--------|
| AL007 | alarm-output <output-no> port-sec-violation {enable disable} | <output-no> Alarm contact number {enable disable} Enable/ disable | disable | OK |
| Description | | | | |
| Change event status violation of the port security | | | | |
| Example | | | | |
| alarm-output 1 port-sec-violation enable | | | | |

| ID | Command | Value range | Default | Answer |
|-------------------------------------|--|--|---------|--------|
| AL008 | alarm-output <output-no> dlr-ring-fail {enable disable} | <output-no> Alarm contact number {enable disable} Enable/ disable | disable | OK |
| Description | | | | |
| Change event status DLR error | | | | |
| Example | | | | |
| alarm-output 1 dlr-ring-fail enable | | | | |

1.28 QoS commands

| ID | Command | Value range | Default | Answer |
|--|------------------------|-------------|-------------------------------|----------------|
| QOS001 | show broadcast-limiter | | | OK + parameter |
| Description | | | | |
| Display the broadcast limiter information: Status of the broadcast limiter Broadcast threshold value Status of the multicast limiter Multicast threshold value Status of the unknown unicast limiter Unknown unicast threshold value | | | | |
| Example | | | | |
| show broadcast-limiter | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|---------------------------------------|-------------------------------|--------|
| QOS002 | broadcast-limiter broadcast status {enable disable} | {enable disable} Enable/ disable | disable | OK |
| Description | | | | |
| Change the broadcast limiter status | | | | |
| Example | | | | |
| broadcast-limiter broadcast status enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| QOS003 | broadcast-limiter broadcast threshold <value> | <value> Threshold value in frames per second (0 - 1048576 in increments of 1024) | <value> = 1024 | OK |
| Description | | | | |
| Change the broadcast limiter threshold | | | | |
| Example | | | | |
| broadcast-limiter broadcast threshold 2048 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|---------------------------------------|-------------------------------|--------|
| QOS004 | broadcast-limiter multicast status {enable disable} | {enable disable} Enable/ disable | disable | OK |
| Description | | | | |
| Change the multicast limiter status | | | | |
| Example | | | | |
| broadcast-limiter multicast status enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| QOS005 | broadcast-limiter multicast threshold <value> | <value> Threshold value in frames per second (0 - 1048576 in increments of 1024) | <value> = 1024 | OK |
| Description | | | | |
| Change the multicast limiter threshold | | | | |
| Example | | | | |
| broadcast-limiter multicast threshold 2048 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|---|---|-----------------------------------|-------------------------------|--------|
| QOS006 | broadcast-limiter unicast status {enable disable} | {enable disable} Enable/disable | disable | OK |
| Description | | | | |
| Change the unknown unicast limiter status | | | | |
| Example | | | | |
| broadcast-limiter unicast status enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.01 | |

| ID | Command | Value range | Default | Answer |
|--|---|--|-------------------------------|--------|
| QOS007 | broadcast-limiter unicast threshold <value> | <value> Threshold value in frames per second (0 - 1048576 in increments of 1024) | <value> = 1024 | OK |
| Description | | | | |
| Change the broadcast limiter threshold | | | | |
| Example | | | | |
| broadcast-limiter unicast threshold 2048 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.02 | |

1.29 Trap Manager commands

| ID | Command | Value range | Default | Answer |
|--|----------------|-------------|-------------------------------|-----------------------|
| TMgr001 | show snmp-trap | | | OK + trap status list |
| Description | | | | |
| Tabular display of the SNMP trap states with the following columns: Trap Name Status | | | | |
| Example | | | | |
| show snmp-trap | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-------------------------------------|---------------------------------------|-------------------------------|--------|
| TMgr002 | snmp-trap status {enable disable} | {enable disable} Enable/ disable | disable | OK |
| Description | | | | |
| Change the global SNMP status | | | | |
| Example | | | | |
| snmp-trap status enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|-----------------------------------|--|-------------------------------|--------|
| TMgr003 | snmp-trap server add <ip-address> | <ip-address> IP address (xxx.xxx.xxx.xxx) | | OK |
| Description | | | | |
| Add an SNMP trap server | | | | |
| Example | | | | |
| snmp-trap server add 192.168.0.50 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--------------------------------------|--------------------------------------|--|-------------------------------|--------|
| TMgr004 | snmp-trap server remove <ip-address> | <ip-address> IP address (xxx.xxx.xxx.xxx) | | OK |
| Description | | | | |
| Delete an SNMP trap server | | | | |
| Example | | | | |
| snmp-trap server remove 192.168.0.50 | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|--|--|--|-------------------------------|--------|
| TMgr005 | snmp-trap trap <trap> {enable disable} | <trap> SNMP trap (selection options: {mrp ip-conflict fw-status-chg port-sec-violation link-up link-down rstp-top-chg rstp-new-root rstp-link-fail pow-src-chg fw-config auth-fail user-pwd-chg sd-card-out sd-card-in config-diff warm-start cold-start}) | all enable | OK |
| Description | | | | |
| Change the SNMP trap states | | | | |
| Example | | | | |
| snmp-trap trap link-up,auth-fail,warm-start enable | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

| ID | Command | Value range | Default | Answer |
|-----------------------------------|--------------------------|-------------|-------------------------------|--------|
| TMgr006 | snmp-trap send-test-trap | | | OK |
| Description | | | | |
| Send a test trap | | | | |
| Example | | | | |
| snmp-trap send-test-trap | | | | |
| Device range | | | As of firmware version | |
| FLOS product range FL SWITCH 2000 | | | 1.00 | |

1.30 FLOS MTU commands

| ID | Command | Value range | Default | Answer |
|---|--------------|-------------|---------|--------|
| MTU001 | show mtu all | | | |
| Description | | | | |
| Display the MTU information for all ports | | | | |
| Example | | | | |
| show mtu all | | | | |

| ID | Command | Value range | Default | Answer |
|--|-------------------------|-----------------------|---------|--------|
| MTU002 | show mtu port <port-no> | <port-no> Port number | | |
| Description | | | | |
| Display the MTU information for one port | | | | |
| Example | | | | |
| show mtu port 2 | | | | |