



## FL SWITCH 2000 FL WLAN 1100/2100

Command-line Interface (CLI) User manual

User manual

Order No. —

# User manual

## FL CLI

2018-10-04

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Designation: UM EN FL CLI

Revision: 00

Order No.: —

This user manual is valid for:



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- Qualified application programmers and software engineers, who are familiar with the safety concepts of automation technology and applicable standards.

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This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety measures that follow this symbol to avoid possible injury or death.

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

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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)

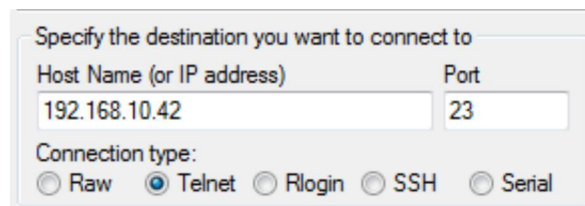
## 1.1 Using the Command Line Interface (CLI)

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.



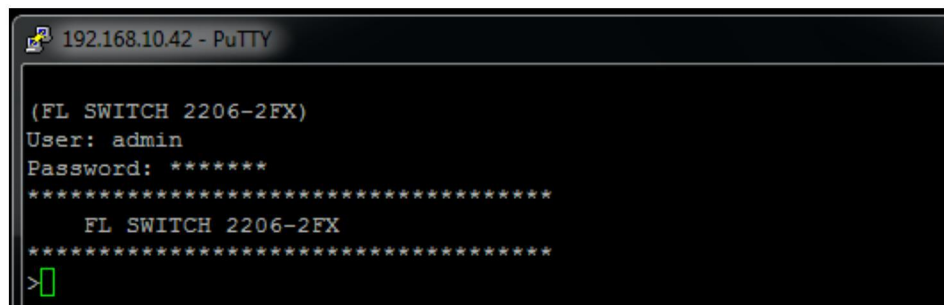
Specify the destination you want to connect to

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

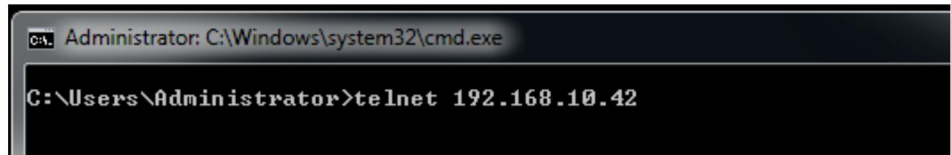


Figure 1-3 Establishing a Telnet connection via Windows command prompt

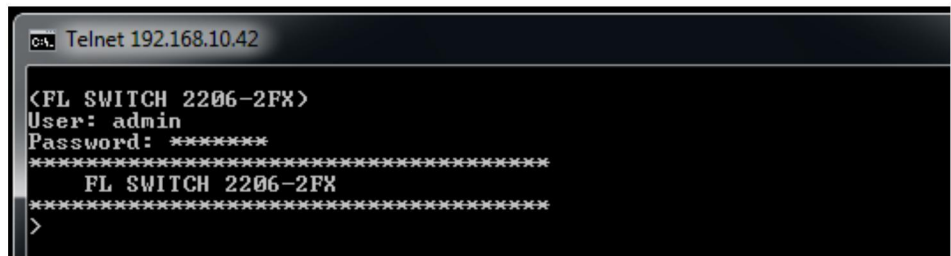


Figure 1-4 Command terminal in Windows command prompt

### 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).

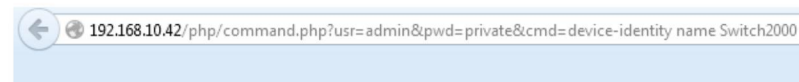
The command entry must follow a specific syntax:

```
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

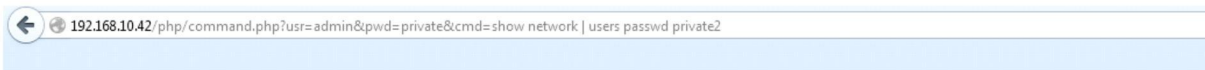
```
http://192.168.10.42/php/command.php?usr=admin&pwd=private&cmd=device-identity name Switch2000
```



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
<b>Description</b>				
Enable port security				
<b>Example</b>				
port-security status enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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				
<b>Example</b>				
port-security port 101 status IP-whitelist				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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.				
<b>Example</b>				
port-security port 101 add-ip 192.168.0.250 8881				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Edit an existing filter entry.				
<b>Example</b>				
port-security port 101 configure-ip 192.168.0.250 8881 description "Testdesc1"				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Delete a security entry The entry to be deleted is specified by means of "IP address" and "Port".				
<b>Example</b>				
port-security port 101 remove-ip 192.168.0.250 8881				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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.				
<b>Example</b>				
port-security port 101 add-mac 00:A0:45:DD:5E:8C 1				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Remove filter entry. The entry is specified via MAC and VLAN.				
<b>Example</b>				
port-security port 101 remove-mac 00:a0:45:dd:5e:8c 1				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Add or edit description for filter entry. The entry is specified via MAC and VLAN.				
<b>Example</b>				
port-security port 101 configure 00:a0:45:dd:5e:8c 1 description "Testdesc1"				
<b>Device range</b>			<b>As of firmware version</b>	
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		
<b>Description</b>				
Show all current security settings for the port				
<b>Example</b>				
show port-security port 101				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Shared secret (password) for login to Radius server				
<b>Example</b>				
users radius auth-server_id 1 shared-secret "MySecret"				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Radius server port				
<b>Example</b>				
users radius auth-server_id 1 udp-port 8888				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
IP address of the Radius server Only "1" may be used as the Id at present.				
<b>Example</b>				
users radius auth-server_id 1 ip-address 192.168.0.250				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi config 101 roaming trigger-manual bssid 00:a0:45:d8:b5:29				
<b>Device range</b>			<b>As of firmware version</b>	
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]	
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi config 101 roaming bgScanIdle 2				
<b>Device range</b>			<b>As of firmware version</b>	
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]	
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi config 101 roaming rssiThrshForceScan -94				
<b>Device range</b>			<b>As of firmware version</b>	
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]	
<b>Description</b>				
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				
<b>Example</b>				
wlan wifi config 101 roaming rssiChangeRoam 10				
<b>Device range</b>			<b>As of firmware version</b>	
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]	
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi config 101 roaming rssiChangeBgScan 3				
<b>Device range</b>			<b>As of firmware version</b>	
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]	
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi config 101 roaming rssiThrshBgScan -65				
<b>Device range</b>			<b>As of firmware version</b>	
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		
<b>Description</b>				
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.				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Selection of the method for adopting the end device MAC address				
<b>Example</b>				
wlan wifi config 101 scb-mode manual				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL WLAN 1100/2100			1.0	

ID	Command	Value range	Default	Answer
WCli003	wlan wifi config <wifild> start-scanning			OK
<b>Description</b>				
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".				
<b>Example</b>				
wlan wifi config 101 start-scanning				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Channels on which the client searches for an AP. Connections are established faster if fewer channels are scanned.				
<b>Example</b>				
wlan wifi config 101 channel-scanlist 1,6,40				
<b>Device range</b>			<b>As of firmware version</b>	
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]	
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi config 101 wds-aging-time 60				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi config 101 max-number-clients 2				
<b>Device range</b>			<b>As of firmware version</b>	
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	
<b>Description</b>				
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").				
<b>Example</b>				
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	
<b>Description</b>				
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.				
<b>Example</b>				
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
<b>Description</b>				
Fast login retry on unsuccessful attempts (stabilizes roaming behavior). The feature may have to be deactivated for clients that respond very slowly.				
<b>Example</b>				
wlan wifi config 101 fast-eapol-retry disable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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).				
<b>Example</b>				
wlan wifi config 101 wlan-channel 40				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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").				
<b>Example</b>				
wlan wifi create 102				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL WLAN 1100/2100			1.0	

ID	Command	Value range	Default	Answer
WVap002	wlan wifi delete <wifild>	102		
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi delete 102				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi config 101 operation-mode ap				
<b>Device range</b>			<b>As of firmware version</b>	
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	
<b>Description</b>				
Set authentication method. We recommend using "wpa2-psk".				
<b>Example</b>				
wlan wifi config 101 profile config 1 authentication "wpa2-psk"				
<b>Device range</b>			<b>As of firmware version</b>	
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	
<b>Description</b>				
Set encryption method. We recommend using "aes".				
<b>Example</b>				
wlan wifi config 101 profile config 1 encryption "aes"				
<b>Device range</b>			<b>As of firmware version</b>	
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	
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi config 101 profile config 1 psKey "My New-Password"				
<b>Device range</b>			<b>As of firmware version</b>	
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	
<b>Description</b>				
Configure device for use outdoors				
<b>Example</b>				
wlan outdoor-mode enable				

ID	Command	Value range	Default	Answer
WRd002	wlan country <CountryName>	open		
<b>Description</b>				
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
<b>Description</b>				
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).				
<b>Example</b>				
wlan radio 1 antenna-mask 0x3				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Enable packet aggregation for the WLAN device. This function optimizes data throughput in standard n.				
<b>Example</b>				
wlan radio 1 aggregation-mode enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Select WLAN band and standard. The standard must be selected before specifying a channel or channel list.				
<b>Example</b>				
wlan wifi config 101 80211-mode gn				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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.				
<b>Example</b>				
wlan wifi config 101 channel-bandwidth 40mhz				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Radiated transmission power in dBm (EIRP) The actual transmission power also depends on the regulatory conditions and may be lower than the value set.				
<b>Example</b>				
wlan wifi config 101 tx-power-radiated 20				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
open				
<b>Example</b>				
wlan wifi config 101 fragment-threshold 1024				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Enable/disable configuration access via WLAN				
<b>Example</b>				
wlan management-access disable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Enable/disable WLAN. The "LNK" LED lights up when the WLAN interface is enabled.				
<b>Example</b>				
wlan global-activation enable				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL WLAN 1100/2100			1.0	

ID	Command	Value range	Default	Answer
WGlo003	wlan apply-settings			OK
<b>Description</b>				
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").				
<b>Example</b>				
wlan apply-settings				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL WLAN 1100/2100			1.0	

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

## 1.9 General commands

ID	Command	Value range	Default	Answer
GCom001	reload			OK
<b>Description</b>				
Device restart				
<b>Example</b>				
reload				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

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

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

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

ID	Command	Value range	Default	Answer
GCom005	show tech-support			
<b>Description</b>				
<b>Example</b>				
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
<b>Description</b>				
Change a user password				
<b>Example</b>				
user passwd admin private Switch123 Switch123				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

## 1.10 System commands

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

ID	Command	Value range	Default	Answer
SCom002	show sys-info			OK + parameter list
<b>Description</b>				
Display the system information: Device name Object ID Device description Contact person Device location				
<b>Example</b>				
show sys-info				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the device name				
<b>Example</b>				
device-identity name Switch2008_2				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the device description				
<b>Example</b>				
device-identity description Switch 2008				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the device location				
<b>Example</b>				
device-identity location Building 2				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the contact person				
<b>Example</b>				
device-identity contact Mr. Doe				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the event table with the following columns: Index Event Device runtime				
<b>Example</b>				
show event-table				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

ID	Command	Value range	Default	Answer
ETab002	clear event-table			OK
<b>Description</b>				
Delete/clear the event table				
<b>Example</b>				
clear event-table				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the MAC address table				
<b>Example</b>				
show mac-address-table				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Enable/disable WLAN The "LNK" LED lights up when the WLAN interface is enabled				
<b>Example</b>				
wlan global-activation enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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.				
<b>Example</b>				
file-transfer tftp write-to-device firmware 192.168.0.1 FL_SWITCH_2000_v1_00.bin				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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				
<b>Example</b>				
show mem-card				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Enable/disable WLAN The "LNK" LED lights up when the WLAN interface is enabled				
<b>Example</b>				
wlan global-activation enable				
<b>Device range</b>			<b>As of firmware version</b>	
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}			
<b>Description</b>				
<b>Example</b>				
show script				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Enable/disable WLAN The "LNK" LED lights up when the WLAN interface is enabled				
<b>Example</b>				
wlan global-activation enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the current network parameters: IP address assignment (static, BootP, DHCP) IP address Network mask Default gateway Management VLAN Address Conflict Detection (ACD) mode				
<b>Example</b>				
show network				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the network parameters: IP address Network mask Default gateway				
<b>Example</b>				
network parms 192.168.0.150 255.255.255.0				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the IP address assignment				
<b>Example</b>				
network protocol dhcp				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the management VLAN				
<b>Example</b>				
network mgmt-vlan 2				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the ACD (Address Conflict Detection) mode				
<b>Example</b>				
network acd-mode acd				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	



## 1.17 FLOS Services commands

ID	Command	Value range	Default	Answer
Mng001	show service			OK + parameter
<b>Description</b>				
Status indicator for all of the following services: Web server SNMP server CLI service CLI network scripting UI (CLI command entry via URL)				
<b>Example</b>				
show service				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the CLI service protocol				
<b>Example</b>				
service cli-service telnet				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of the CLI network scripting UI (CLI command entry via URL)				
<b>Example</b>				
service cli-network-script-ui disable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the web server protocol				
<b>Example</b>				
service web-server https				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the SNMP server				
<b>Example</b>				
service snmp-agent snmp-v2				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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				
<b>Example</b>				
show lldp topology all				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

ID	Command	Value range	Default	Answer
LLDP002	show lldp global			OK + Parameters
<b>Description</b>				
Display the configuration parameters: LLDP status LLDP transmission interval LLDP transmit port LLDP receive port				
<b>Example</b>				
show lldp global				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the topology information at a port: Complete chassis ID Complete port name System name System description				
<b>Example</b>				
show lldp topology port-no 3				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the LLDP status				
<b>Example</b>				
lldp status enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the LLDP transmission interval				
<b>Example</b>				
lldp tx-interval 10				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation of the LLDP transmit ports				
<b>Example</b>				
lldp port-tx enable 3,4,8				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Deactivation of the LLDP transmit ports				
<b>Example</b>				
lldp port-tx disable 3,4,8				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation of the LLDP receive ports				
<b>Example</b>				
lldp port-rx enable 3,4,8				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Deactivation of the LLDP receive ports				
<b>Example</b>				
lldp port-rx disable 3,4,8				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the basic parameters of all ports: Port number Port name Port type Port status Port mode				
<b>Example</b>				
show port-info all				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the basic parameters of one port: Port number Port name Port type Port status Port mode Status flow control Status link monitoring				
<b>Example</b>				
show port-info port-no 3				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the port statistics of one port				
<b>Example</b>				
show port-stat port-no 3				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the RX and TX utilization of one port				
<b>Example</b>				
show port-util port-no 3				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

ID	Command	Value range	Default	Answer
PFtr005	show port-util all			OK + parameter
<b>Description</b>				
Display the RX and TX utilization of all ports				
<b>Example</b>				
show port-util all				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of a port				
<b>Example</b>				
port 3 admin-mode disable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of auto-negotiation on one port				
<b>Example</b>				
port 3 modus autoneg				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of auto-negotiation on one port (only 10/100 Mbps, not 1000 Mbps)				
<b>Example</b>				
port 3 modus auto10_100				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the transmission speed and duplex mode on one port				
<b>Example</b>				
port 3 modus speed 100 half-duplex				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

ID	Command	Value range	Default	Answer
PFtr010	port <port-no> modus fast-startup	<port-no> Port number		OK
<b>Description</b>				
Activation/deactivation of Fast Startup mode on one port.				
<b>Example</b>				
port 3 modus faststartup				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the port name				
<b>Example</b>				
port 3 description RingPort1				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of link monitoring on one port				
<b>Example</b>				
port 3 link-monitoring disable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of flow control on one port				
<b>Example</b>				
port 3 flow-control disable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the port mirroring parameters: Global status Receive port (mirroring port) Mirrored ports (incoming traffic) Mirrored ports (outgoing traffic)				
<b>Example</b>				
show port-mirror				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of the global port mirroring status				
<b>Example</b>				
port-mirror status enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the receive port (mirroring port)				
<b>Example</b>				
port-mirror dest 8				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation of RX port mirroring (incoming traffic) on multiple ports				
<b>Example</b>				
port-mirror ingress enable 3,4,8				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Deactivation of RX port mirroring (incoming traffic) on multiple ports				
<b>Example</b>				
port-mirror ingress disable 3,4,8				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation of TX port mirroring (outgoing traffic) on multiple ports				
<b>Example</b>				
port-mirror egress enable 3,4,8				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Deactivation of TX port mirroring (outgoing traffic) on multiple ports				
<b>Example</b>				
port-mirror egress disable 3,4,8				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

## 1.21 VLAN commands

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

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

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

ID	Command	Value range	Default	Answer
Vlan004	show vlan port-table			OK + VLAN port table
<b>Description</b>				
Display the port-based static VLAN table for all ports: VLAN ID VLAN name Device ports (untagged) Device ports (tagged)				
<b>Example</b>				
show vlan port-table				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the port-based static VLAN table for one port: VLAN ID VLAN name Device ports (untagged) Device ports (tagged)				
<b>Example</b>				
show vlan port 3				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the VLAN information for a VLAN: VLAN ID VLAN name Device ports (untagged) Device ports (tagged)				
<b>Example</b>				
show vlan vlan-id 3				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the VLAN mode				
<b>Example</b>				
vlan status tagged				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Create a new static VLAN				
<b>Example</b>				
vlan create 5				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Delete a static VLAN				
<b>Example</b>				
vlan delete 5				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the name of a static VLAN				
<b>Example</b>				
vlan static 5 name VLAN_5				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Assignment of device ports (tagged) to a VLAN				
<b>Example</b>				
vlan static 5 tagged-mem-ports				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Assignment of device ports (untagged) to a VLAN				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Removal of device ports from a VLAN				
<b>Example</b>				
vlan static 5 no-member				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Assignment of a default VLAN ID to a port				
<b>Example</b>				
vlan port 3 vlan 5				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Assignment of a default priority to a port				
<b>Example</b>				
vlan port 3 priority				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of the ingress filter at a port				
<b>Example</b>				
vlan port 3 ingress-filter disable				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

## 1.22 Multicast commands

ID	Command	Value range	Default	Answer
MC001	show multicast igmp			OK + parameter
<b>Description</b>				
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				
<b>Example</b>				
show multicast igmp				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

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

ID	Command	Value range	Default	Answer
MC003	show multicast current-groups			OK + current multi-cast groups
<b>Description</b>				
Tabular display of the current multicast groups with the following columns: VLAN ID Multicast address Port member				
<b>Example</b>				
show multicast current-groups				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of IGMP snooping				
<b>Example</b>				
multicast igmp snoop status enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the aging time				
<b>Example</b>				
multicast igmp snoop aging				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the querier version				
<b>Example</b>				
multicast igmp querier version v2				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the querier interval				
<b>Example</b>				
multicast igmp querier interval				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of the IGMP extension FUQ				
<b>Example</b>				
multicast igmp extension fuq enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of the IGMP extension BUQ				
<b>Example</b>				
multicast igmp extension buq enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of the IGMP extension auto query port				
<b>Example</b>				
multicast igmp extension auto-query disable				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

ID	Command	Value range	Default	Answer
MC011	multicast igmp extension clear-auto-query			OK
<b>Description</b>				
Delete all auto query ports				
<b>Example</b>				
multicast igmp extension clear-auto-query				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Add static query ports				
<b>Example</b>				
multicast igmp extension static-query-port add				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Delete static query ports				
<b>Example</b>				
multicast igmp extension static-query-port remove				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Generate a new static multicast group				
<b>Example</b>				
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
<b>Description</b>				
Delete an existing static multicast group				
<b>Example</b>				
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
<b>Description</b>				
Add ports to a static multicast group				
<b>Example</b>				
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
<b>Description</b>				
Forbid membership of ports in a static multicast group				
<b>Example</b>				
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
<b>Description</b>				
Delete ports from a static multicast group				
<b>Example</b>				
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
<b>Description</b>				
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				
<b>Example</b>				
show spanning-tree global				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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				
<b>Example</b>				
show spanning tree port port-no 3				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

ID	Command	Value range	Default	Answer
RSTP003	show spanning-tree port all			OK + Port
<b>Description</b>				
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				
<b>Example</b>				
show spanning-tree port all				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of RSTP				
<b>Example</b>				
spanning-tree status 802.1w				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of Large Tree Support				
<b>Example</b>				
spanning-tree lts enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of Fast Ring Detection				
<b>Example</b>				
spanning-tree frd enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the Bridge Priority				
<b>Example</b>				
spanning-tree bdg-prio 4096				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the Bridge Hello Time				
<b>Example</b>				
spanning-tree hello-time 3				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the Bridge Forward Delay				
<b>Example</b>				
spanning-tree fwd-delay 20				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the Bridge Max Age				
<b>Example</b>				
spanning-tree max-age 25				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of RSTP for a specific port				
<b>Example</b>				
spanning-tree port 3 status disable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the path cost for a specific port				
<b>Example</b>				
spanning-tree port 3 path-cost 20000				
<b>Device range</b>			<b>As of firmware version</b>	
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	
<b>Description</b>				
Activation/deactivation of Auto Edge for a specific port				
<b>Example</b>				
spanning-tree port 3 auto-edge enable				
<b>Device range</b>			<b>As of firmware version</b>	
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	
<b>Description</b>				
Activation/deactivation of Admin Edge for a specific port				
<b>Example</b>				
spanning-tree port 3 admin-edge non-edge				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the priority for a specific port				
<b>Example</b>				
spanning-tree port 3 priority 192				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Force change from STP to RSTP for a specific port				
<b>Example</b>				
spanning-tree port 3 force-rstp				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	



## 1.24 MRP commands

ID	Command	Value range	Default	Answer
MRP001	show mrp			OK + parameter
<b>Description</b>				
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				
<b>Example</b>				
show mrp				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the MRP device status				
<b>Example</b>				
mrp mode client				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the MRP ports				
<b>Example</b>				
mrp ports 3 4				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the MRP VLAN ID				
<b>Example</b>				
mrp vlan 2				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the MRP UUID				
<b>Example</b>				
mrp uuid ffffffff-ffff-ffff-ffff-ffffffffffff				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the MRP domain name				
<b>Example</b>				
mrp domain-name mrpdomain2				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the MRP manager priority				
<b>Example</b>				
mrp manager-priority 4096				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the security context status				
<b>Example</b>				
show sec-context				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

ID	Command	Value range	Default	Answer
SecC002	sec-context generate			OK
<b>Description</b>				
Generate a security context				
<b>Example</b>				
sec-context generate				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Transfer of a root CA certificate file to the device or from the device to the PC.				
<b>Example</b>				
file-transfer tftp write-to-device sec-context 192.168.0.1 cacert.cer				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

## 1.26 DHCP commands

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

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

ID	Command	Value range	Default	Answer
DHCP003	show dhcp server static-lease			OK + lease table
<b>Description</b>				
Tabular display of the current static DHCP leases (assigned IP addresses): Number Assigned IP address MAC address of the device				
<b>Example</b>				
show dhcp server static-lease				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Display the port-based DHCP server information: Port Status of the port-based DHCP server IP address Subnet mask Default gateway DNS server				
<b>Example</b>				
show dhcp server port-local 3				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Set the operating mode of the DHCP server				
<b>Example</b>				
dhcp-service service server				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the relay agent remote ID				
<b>Example</b>				
dhcp-service relay-agent remote-id mac				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the DHCP server in relay agent mode				
<b>Example</b>				
dhcp-service relay-agent server 192.168.0.2				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation of the relay agent on multiple ports				
<b>Example</b>				
dhcp-service relay-agent port-mode enable 3,4,8				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Deactivation of the relay agent on multiple ports				
<b>Example</b>				
dhcp-service relay-agent port-mode disable 3,4,8				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the start address of the DHCP pool				
<b>Example</b>				
dhcp-service server pool-start-addr 192.168.0.3				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the maximum number of IP addresses specified by the DHCP server (size of the address pool)				
<b>Example</b>				
dhcp-service server pool-size 20				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the subnet mask that is assigned to the DHCP clients				
<b>Example</b>				
dhcp-service server net-mask 255.255.255.0				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the default gateway that is assigned to the DHCP clients				
<b>Example</b>				
dhcp-service server router-ip 192.168.0.1				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the DNS server that is assigned to the DHCP clients				
<b>Example</b>				
dhcp-service server dns-ip 192.168.10.10				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the DHCP lease time (validity of the IP address assignment)				
<b>Example</b>				
dhcp-service server lease-time 3600				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of the acceptance of BootP requests by the DHCP server				
<b>Example</b>				
dhcp-service server accept-bootp enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Create a static IP assignment (DHCP lease) for a defined client address (MAC address)				
<b>Example</b>				
dhcp-service server static-lease create 192.168.0.20 XX:XX:XX:6C:D2:05				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Delete a statically assigned IP address (DHCP lease)				
<b>Example</b>				
dhcp-service server static-lease delete 192.168.0.20				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

ID	Command	Value range	Default	Answer
DHCP019	dhcp-service server static-lease clear			OK
<b>Description</b>				
Delete all static IP assignments (DHCP lease)				
<b>Example</b>				
dhcp-service server static-lease clear				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Activation/deactivation of a port-based DHCP server				
<b>Example</b>				
dhcp-service server port-local 3 status enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change an IP address assigned by a port-based DHCP server				
<b>Example</b>				
dhcp-service server port-local 3 local-ip 192.168.0.30				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change a subnet mask assigned by a port-based DHCP server				
<b>Example</b>				
dhcp-service server port-local 3 net-mask 255.255.255.0				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change a default gateway address assigned by a port-based DHCP server				
<b>Example</b>				
dhcp-service server port-local 3 router-ip 192.168.0.1				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change a DNS server address assigned by a port-based DHCP server				
<b>Example</b>				
dhcp-service server port-local 3 dns-ip 192.168.10.10				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

ID	Command	Value range	Default	Answer
DHCP025	dhcp-service server port-local-clear			OK
<b>Description</b>				
Delete all port-based DHCP servers				
<b>Example</b>				
dhcp-service server port-local-clear				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
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				
<b>Example</b>				
show alarm-output 1				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change alarm contact status				
<b>Example</b>				
alarm-output 1 global enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change event status power supply interrupted				
<b>Example</b>				
alarm-output 1 pow-supply-lost enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change event status link down				
<b>Example</b>				
alarm-output 1 link-down enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change event status MRP ring error				
<b>Example</b>				
alarm-output 1 mrp enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change event status configuration memory missing				
<b>Example</b>				
alarm-output 1 plug-mem-miss enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change event status violation of the port security				
<b>Example</b>				
alarm-output 1 port-sec-violation enable				

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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
<b>Description</b>				
Change event status DLR error				
<b>Example</b>				
alarm-output 1 dlr-ring-fail enable				

## 1.28 QoS commands

ID	Command	Value range	Default	Answer
QOS001	show broadcast-limiter			OK + parameter
<b>Description</b>				
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				
<b>Example</b>				
show broadcast-limiter				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the broadcast limiter status				
<b>Example</b>				
broadcast-limiter broadcast status enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the broadcast limiter threshold				
<b>Example</b>				
broadcast-limiter broadcast threshold 2048				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the multicast limiter status				
<b>Example</b>				
broadcast-limiter multicast status enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the multicast limiter threshold				
<b>Example</b>				
broadcast-limiter multicast threshold 2048				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the unknown unicast limiter status				
<b>Example</b>				
broadcast-limiter unicast status enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the broadcast limiter threshold				
<b>Example</b>				
broadcast-limiter unicast threshold 2048				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Tabular display of the SNMP trap states with the following columns: Trap Name Status				
<b>Example</b>				
show snmp-trap				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the global SNMP status				
<b>Example</b>				
snmp-trap status enable				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Add an SNMP trap server				
<b>Example</b>				
snmp-trap server add 192.168.0.50				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Delete an SNMP trap server				
<b>Example</b>				
snmp-trap server remove 192.168.0.50				
<b>Device range</b>			<b>As of firmware version</b>	
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
<b>Description</b>				
Change the SNMP trap states				
<b>Example</b>				
snmp-trap trap link-up,auth-fail,warm-start enable				
<b>Device range</b>			<b>As of firmware version</b>	
FLOS product range FL SWITCH 2000			1.00	

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

### 1.30 FLOS MTU commands

ID	Command	Value range	Default	Answer
MTU001	show mtu all			
<b>Description</b>				
Display the MTU information for all ports				
<b>Example</b>				
show mtu all				

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