



3COM[®] SWITCH 4500 QUICK REFERENCE GUIDE

About the Web Interface

This guide details the commands available on the Web and the Command Line Interfaces. The tables contained in this document reference the CLI commands and the equivalent Web Interface menu items that allow the same configuration to be made using the web interface.

About the Command Line Interface

To use the command line interface (CLI) of your unit, please refer to the following points for assistance:

- When initially accessing the CLI, press Enter when prompted. The User View displays. This is indicated by the chevron brackets around the name of the unit at the prompt, for example, <4500>.
- In System View, square brackets appear around the name of the unit at the prompt, for example, [4500].
- You must be in the System View menu to access the configurable CLI commands.
- Some commands can be entered directly at any prompt from anywhere in the interface.
- If you enter part of a command followed by a ? (with no space between), the CLI will show you all the commands that begin in that way.

- **To display command parameters:**

At the prompt, enter the name of the command followed by a space and ?. For example:

```
<4500>boot ?
```

The following parameters are displayed:

```
boot-loader
bootrom
```

```
<4500>
```

To specify boot loader, enter the command as follows:

```
<4500>boot boot-loader ?
```

You only need to enter ? if parameters exist for the command.

- **To display parent menus:**

At the prompt, enter `quit`.

- **To display the User View menu:**

Press <CTRL+Z>.

- **To obtain help:**

At the prompt, enter ?.

- The term 'view' may be used interchangeably with the term 'menu'.
- The `undo` command is placed before the command you wish to undo, for example, `undo set authentication password`.
- <CTRL+A> places the cursor back to the start of the command line.
- Enter the first few characters of a command and press TAB to enter the full command without having to input the entire command (where there is only one command that starts with the entered characters).
- Use the Up Arrow key at the prompt to repeat the previous command string.
- Use Delete to delete the character after the cursor; Backspace deletes the character before the cursor.
- When entering physical port numbers, Enter the port number as `x/0/z`, where x is the unit number and z is the physical port number.

Further Information

For further information about how to use the command line interface, refer to the Command Reference Guide and the Configuration Guide, which are both available as PDF documents on the CD that accompanied the unit.

Menus

This section provides a summary of menus and commands supported by the agent for each of the supported hardware platform variants. Any matching web commands available in the web interface are also shown.

Commands marked with '*' are available on the Switch 4500 PWR only.

Table 1 Command Line Editing

<Ctrl+A>	Moves the cursor to the start of the command line
<Tab>	Command completion

Table 2 Commands Available in Any View

Command	Description	Web Command
?	Help	
display	Display current system information	
display acl	View detailed configuration information about the ACL	
display am	View the status of access management function	
display arp	View the ARP mapping table	
display arp timer aging	View the current setting of the dynamic ARP map aging timer	
display boot-loader	View the APP file used for this boot and the one that will be used at next boot	
display channel	View details about the information channel	
display clock	View the date and time	
display config-agent	View statistics of the configuration agent	
display connection	View the connection information of all or specified users	
display cpu	Display the occupancy of the CPU	
display current-configuration	Display the current configuration parameters	
display debugging	View the enabled debugging process	
display device	Display device information	
display dhcp client	View detailed information about address allocation to DHCP client	
display dhcp-server	View information about DHCP server group	
display dhcp-server interface vlan-interface	View information about the DHCP server group corresponding to the VLAN interface	
display diagnostic-information	View the current configuration information about all running modules	
display domain	View the configuration of ISP domains	
display dot1x	View the relevant information of 802.1x	
display fan	View the working state of the built-in fans	
display fib	View the summary of the Forwarding Information Base	
display fib ip_address	View the FIB entries matching a destination IP address (range)	
display fib acl	View the FIB entries matching a specific ACL	
display fib ip-prefix	View the FIB entries matching a specific prefix list	
display fib statistics	View the total number of FIB entries	
display ftm route	Display Fabric topology management route	
display ftm information	Display Fabric topology management information	
display ftm topology database	Display Fabric topology management database	
display ftp-server	View the parameters of the current FTP server	

Command	Description	Web Command
<code>display history-command</code>	View the saved history of commands	
<code>display icmp statistics</code>	View the statistics information about ICMP packets	
<code>display igmp-snooping configuration</code>	View IGMP snooping configuration information	
<code>display igmp-snooping group</code>	View IP multicast groups and MAC multicast groups	
<code>display igmp-snooping statistics</code>	View the statistics information on IGMP snooping	
<code>display info-center</code>	View the configuration of system log and the information recorded in the memory buffer	
<code>display interface</code>	View port configuration information	Port -> Statistics
<code>display interface vlan-interface</code>	View the information about specified or all VLAN interfaces	
<code>display ip host</code>	View all the host names and the corresponding IP addresses	
<code>display ip interface vlan-interface</code>	View the information of an IP interface	
<code>display ip ip-prefix</code>	View the IP address prefix list	
<code>display ip socket</code>	Display the information about the sockets in the current system	
<code>display ip statistics</code>	View the statistics information about IP packets	
<code>display ip routing-table</code>	View the routing table summary	
<code>display ip routing-table X.X.X.X</code>	View the routing information of the specified destination address	
<code>display ip routing-table X.X.X.X X.X.X.X</code>	View the routing information in the specified destination address range	
<code>display ip routing-table acl</code>	View the route filtered through specified basic access control list (ACL)	
<code>display ip routing-table ip-prefix</code>	View the route information that passed the filtering rule according the input ip prefix list name	
<code>display ip routing-table protocol</code>	View the route information of specified protocol	
<code>display ip routing-table radix</code>	View radix tree of routing table	
<code>display ip routing-table statistics</code>	Summary statistics of all routes	
<code>display ip routing-table verbose</code>	Detail information of routing table	
<code>display isolate port</code>	View port isolation information	
<code>display lacp system-id</code>	View actor system ID	
<code>display link-aggregation interface</code>	View detailed link aggregation information at a designated port	
<code>display link-aggregation summary</code>	View summary information of all aggregation groups	
<code>display link-aggregation verbose</code>	View detailed information of a designated port	
<code>display local-user</code>	View the relevant information of all (or specified) local users	
<code>display local-server statistics</code>	View the configuration information of local RADIUS server group	
<code>display loopback-detection</code>	View if port loopback detection has been enabled and details	
<code>display mac-address</code>	View MAC address table information	
<code>display mac-address aging-time</code>	View the aging time of the dynamic entry in the MAC address table	
<code>display mac-authentication</code>	Display the global information on centralized MAC address authentication	
<code>display memory</code>	Display memory information	

Command	Description	Web Command
<code>display ntp sessions</code>	NTP connection	
<code>display ntp status</code>	NTP status and configuration information	
<code>display ntp trace</code>	Trace the time synchronization information	
<code>display packet-filter interface</code>	View active ACL interface information	
<code>display packet-filter unit id</code>	View active ACL unit identifier	
<code>display password-control</code>	Display password-control information	
<code>display password-control blacklist</code>	Display blacklist information	
<code>display password-control super</code>	Display super user's password-control information	
<code>display poe disconnect*</code>	Display PoE Disconnect Mode	
<code>display poe interface*</code>	Specify interface e1, 0, n	
<code>display poe powersupply*</code>	Display PoE Power Supply Status	
<code>display port</code>	View ports where link type is Hybrid, Trunk, or a combination	
<code>display power</code>	View the working state of the built-in power supply	
<code>display qos cos-local-precedence-map</code>	View "COS->Local-precedence" map	
<code>display qos-interface [x]</code>	View QoS setting information of all interfaces. X = unit number or interface information (E1,0,1)	
<code>display qos-interface [x] line-rate</code>	View the parameter setting of traffic rate limitation in the interface output direction. X = unit number or interface information (E1,0,1)	
<code>display qos-interface [x] mirrored-to</code>	View the settings of the traffic mirror X= unit number or interface information (E1, 0, 1)r	
<code>display qos-interface [x] traffic-limit</code>	View the settings of traffic limit. X= unit number or interface information (E1,0,1)	
<code>display radius</code>	View the configuration information of all RADIUS server groups or a specified one	
<code>display radius statistics</code>	View the statistics information of RADIUS packet	
<code>display remote ping</code>	Display the remote-ping test history and the latest test results.	
<code>display remote-ping history</code>	Display remote-ping history table	
<code>display remote-ping results</code>	Display remote-ping results table	
<code>display rip</code>	View the current RIP running state	
<code>display rmon alarm</code>	View RMON alarm information	
<code>display rmon event</code>	View RMON events	
<code>display rmon eventlog</code>	View RMON event log	
<code>display rmon history</code>	View the latest RMON history sampling information	
<code>display rmon prialarm</code>	Display alarm information about extended RMON	
<code>display rmon statistics</code>	View RMON statistics	
<code>display route-policy</code>	View the configured route policy	
<code>display router id</code>	Display the router's ID	
<code>display rsa local-key-pair public</code>	Display local key pair and public key of the server	
<code>display rsa peer-public-key</code>	Display a designated RSA public key	
<code>display saved-configuration</code>	View configuration files stored in flash memory of the Switch	
<code>display schedule reboot</code>	Display the configuration of the schedule reboot terminal service parameters of the current router	
<code>display snmp-agent</code>	View information about the SNMP-agent engine ID of current device	
<code>display snmp-agent community</code>	View the currently configured community names	

Command	Description	Web Command
<code>display snmp-agent group</code>	View group name, safe mode, state of various views and storage modes	
<code>display snmp-agent mib-view</code>	View the MIB view configuration information of the Switch	
<code>display snmp-agent statistics</code>	View current state of SNMP communication	
<code>display snmp-agent sys-info</code>	View the system information of SNMP configuration	
<code>display snmp-agent usm-user</code>	View information of all the SNMP usernames in the group username list	
<code>display ssh server status</code>	Display the SSH server status information	
<code>display ssh server session</code>	Display SSH server session information	
<code>display ssh server-info</code>	Display SSH Server information	
<code>display ssh user-information</code>	Display information of about the user, including username, corresponding key, and authentication type	
<code>display startup</code>	Display configuration filenames used for system start-up.	
<code>display stop-accounting-buffer radius-scheme</code>	View the stop accounting buffer radius-scheme requests	
<code>display stop-accounting-buffer session id</code>	Display the stop accounting session identifier	
<code>display stop-accounting-buffer time-range</code>	View the stop accounting time range	
<code>display stop-accounting-buffer user-name</code>	Display the stop accounting user name	
<code>display tcp statistics</code>	View the statistics information about TCP packets	
<code>display tcp status</code>	View the TCP connection state	
<code>display this</code>	Display the running configuration of the current view	
<code>display udp-helper server</code>	View the information of destination Helper server corresponding to a VLAN interface	
<code>display udp statistics</code>	View UDP traffic statistic information	
<code>display unit</code>	View information about the port in a specific unit. Specify unit number and interface.	
<code>display user-interface</code>	View information about the user interface	
<code>display users</code>	View information about the current user interface	
<code>display version</code>	Display software version, issue date and the basic hardware configurations	
<code>display voice vlan oui</code>	Display the OUI address supported by the current system	
<code>display voice vlan status</code>	Display information about Voice VLAN features	
<code>display vlan</code>	View information about the specified or all VLANs	
<code>display xrn-fabric</code>	View the information of the entire xrn fabric	
<code>quit</code>	Exit from current command view	
<code>super</code>	Assign user a higher user level.	
<code>return</code>	Return to user view from any view other than user view	
<code>tracert</code>	Check the network routes and troubleshoot the network	

Table 3 User View

<4500>

Command	Description	Web Command
<code>boot boot-loader</code>	Specify the application file (.app) used for booting the Switch	
<code>boot bootrom</code>	Upgrade bootrom	
<code>cd</code>	Change the current directory	
<code>clock datetime</code>	Configure the current date and time	

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