



Cisco WAAS Software Command Summary

This chapter summarizes the Cisco WAAS 6.4.1 software commands.

[Table 2-1](#) lists the WAAS commands (alphabetically) and indicates the command mode for each command. The commands used to access configuration modes are marked with an asterisk. Commands that do not indicate a particular mode are EXEC mode commands. The same command may have different effects when entered in a different command mode, so they are listed and documented separately. (See [Chapter 1, “Using the WAAS Command-Line Interface”](#) for a discussion about using CLI command modes.)

In [Table 2-1](#), in the Device Mode column “All” indicates that the particular CLI command is supported in both central-manager mode and application-accelerator mode.

Table 2-1 Command Summary

Command	Description	CLI Mode	Device Mode
(config) aaa accounting	Configures AAA accounting.	global configuration	All
(config) aaa authorization commands	Configures AAA authorization.	global configuration	All
(config) accelerator epm	Enables the EPM application accelerator.	global configuration	application- accelerator
(config) accelerator http	Enables the HTTP application accelerator.	global configuration	application- accelerator
(config) accelerator ica	Enables the ICA application accelerator.	global configuration	application- accelerator
(config) accelerator mapi	Enables the MAPI application accelerator.	global configuration	application- accelerator
(config) accelerator smb	Enables the SMB application accelerator.	global configuration	application- accelerator
(config) accelerator ssl	Enables the SSL application accelerator.	global configuration	application- accelerator
(config) alarm overload-detect	Configures the detection of an alarm overload.	global configuration	All
(config-scg) appnav-controller	Configures the IP address and description of an ANC to be added to the ANCG.	ANCG configuration	appnav-controller

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config-scx) appnav-controller-group	Configures the name of the ANCG.	service context configuration	appnav-controller
(config) asset	Configures the tag name for the asset tag string.	global configuration	All
(config-wccp-service) assignment-method	Configures the WCCP assignment method.	WCCP configuration	application- accelerator appnav-controller
(config-scx) authentication	Configures the service context authentication key.	service context configuration	appnav-controller
(config-sn) authentication	Configures the WN authentication key.	service node configuration	application- accelerator appnav-controller
(config-sn) node-discovery enable	Configures the node discovery of the service node in the AppNav Cluster.	service node configuration	application- accelerator appnav-controller
(config) authentication configuration	Configures administrative authentication and authorization parameters.	global configuration	All
(config)authentication enable	Configures enable authentication to use local admin user account password instead of using external authentication servers.	global configuration	application- accelerator central manager
(config) authentication content-request	Configures request for content authentication and authorization parameters.	global configuration	All
(config) authentication fail-over	Configures authentication failover if the primary authentication server is unreachable.	global configuration	All
(config) authentication login	Configures administrative login authentication and authorization parameters.	global configuration	All
(config) authentication strict-password-policy	Configures strong password policy parameters.	global configuration	All
(config) auto-discovery	Discovers origin servers that cannot receive TCP packets with options and adds the IP addresses to a blacklist for a specified number of minutes.	global configuration	application- accelerator
(config) auto-register	Enables the discovery of a primary interface on a WAE and its automatic registration with the WAAS Central Manager through DHCP.	global configuration	application- accelerator
(config-if) autosense	Sets the current interface to autosense.	interface configuration	All
(config-if) bandwidth	Sets the specified interface bandwidth to 10, 100, or 1000 Mbps.	interface configuration	All
(config) banner	Configures message-of-the-day, login, login and EXEC banners.	global configuration	All
(config-if) bridge-group	Configures the bridge group for an interface.	interface configuration	All
(config-ca) ca-certificate	Sets the certification authority file.	certification authority configuration	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>cd</code>	Changes the directory.	user-level EXEC and privileged-level EXEC	All
<code>(config) cdp</code>	Enables the Cisco Discovery Protocol (CDP) for the WAAS device.	global configuration	All
<code>(config-if) cdp</code>	Enables CDP on an interface.	interface configuration	All
<code>(config) central-manager</code>	In application-accelerator mode, used to specify the IP address of the WAAS Central Manager with which the WAE needs to register. In central-manager mode, used to specify the WAAS Central Manager's role and GUI port number.	global configuration	All
<code>(config-if) channel-group</code>	Configures the port channel group for an interface.	interface configuration	All
<code>(config-cipher-list) cipher</code>	Configures a cipher suite on the cipher list.	cipher list configuration	All
<code>(config-ssl-accelerated) cipher-list</code>	Configures secure socket layer (SSL) encryption cipher lists on a WAAS device.	SSL accelerated service configuration	All
<code>(config-ssl-global) cipher-list</code>	Configures secure socket layer (SSL) encryption cipher lists on a WAAS device.	SSL global service configuration	All
<code>(config-ssl-peering) cipher-list</code>	Configures secure socket layer (SSL) encryption cipher lists on a WAAS device.	SSL host peering service configuration	All
<code>(config-ssl-mgmt) cipher-list</code>	Configures secure socket layer (SSL) encryption cipher lists on a WAAS device.	SSL management service configuration	All
<code>(config-pmap) class</code>	Configures the service policy for a class map.	policy map configuration	application- accelerator appnav-controller
<code>(config) class-map</code>	Configures AppNav and optimization class maps.	global configuration	application- accelerator appnav-controller
<code>clear arp-cache</code>	Resets the ARP cache.	privileged-level EXEC	application- accelerator
<code>clear cache</code>	Resets the cached objects.	privileged-level EXEC	application- accelerator
<code>clear cdp</code>	Resets Cisco Discovery Protocol statistics.	privileged-level EXEC	All
<code>clear connection</code>	Resets one or more connections.	privileged-level EXEC	application- accelerator appnav-controller

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>clear dre</code>	Clears DRE configurations.	privileged-level EXEC	All
<code>clear ip</code>	Resets IP access list statistics.	privileged-level EXEC	All
<code>clear license</code>	Resets licensing configuration.	privileged-level EXEC	All
<code>clear logging</code>	Resets the syslog messages saved in a disk file.	privileged-level EXEC	All
<code>clear service-policy</code>	Clears AppNav and optimization class and policy map counters.	privileged-level EXEC	application- accelerator appnav-controller
<code>clear statistics</code>	Resets statistics data.	privileged-level EXEC	All
<code>clear statistics accelerator</code>	Resets all global statistics.	privileged-level EXEC	All
<code>clear statistics connection</code>	Resets connection statistics.	privileged-level EXEC	All
<code>clear statistics monitor appnav-controller traffic</code>	Resets traffic monitoring statistics for an AppNav Controller Interface Module.	privileged-level EXEC	appnav-controller
<code>clear transaction-log</code>	Archives the working transaction log file.	privileged-level EXEC	application accelerator
<code>clear users</code>	Resets user connections or unlocks users that have been locked out.	privileged-level EXEC	All
<code>clear windows-domain-log</code>	Clears user connections and unlocks users that have been locked out.	privileged-level EXEC	All
<code>(config-ssl-accelerated) client-cert-verify</code>	Enables verification of client certificates.	SSL accelerated service configuration	All
<code>(config-ssl-accelerated) client-cert-key</code>	Configures a certificate and private key	SSL accelerated service configuration	All
<code>(config-ssl-accelerated) client-version-rollback-check</code>	Disables the client SSL version rollback check.	SSL accelerated service configuration	All
<code>clock</code>	Manages the system clock.	privileged-level EXEC	All
<code>(config) clock</code>	Sets the summer daylight saving time of day and time zone.	global configuration	All
<code>cms</code>	Configures the parameters for the Centralized Management System (CMS) embedded database.	privileged-level EXEC	All
<code>cms secure-store</code>	Configures secure store encryption	privileged-level EXEC	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config) cms	Schedules the maintenance and enables the Centralized Management System on a specific WAAS device.	global configuration	All
configure*	Enters configuration mode from privileged EXEC mode.	privileged-level EXEC	All
copy disk	Copies configuration information or files from disk.	privileged-level EXEC	All
copy ftp	Copies files from an FTP server.	privileged-level EXEC	All
copy http	Copies files from an HTTP server.	privileged-level EXEC	All
copy monitoring-log	Copies SMB statistics data to the local disk or an FTP server.	privileged-level EXEC	All
copy running-config	Copies information from the current system configuration.	privileged-level EXEC	All
copy scp	Copies files from an SCP server.	privileged-level EXEC	All
copy secure-http	Copies files from an HTTP server.	privileged-level EXEC	All
copy startup-config	Copies information from the startup configuration.	privileged-level EXEC	All
copy sysreport	Copies system troubleshooting information.	privileged-level EXEC	All
copy system-status	Copies the system status for debugging reference.	privileged-level EXEC	All
copy tech-support	Copies system information for technical support.	privileged-level EXEC	All
copy tftp	Copies the software image from the TFTP server.	privileged-level EXEC	All
copy usb	Copies files from an external USB drive.	privileged-level EXEC	All
cpfile	Copies a file to the current directory.	privileged-level EXEC	All
crypto delete	Removes SSL certificate and key files.	privileged-level EXEC	application- accelerator
crypto export	Exports SSL certificate and key files.	privileged-level EXEC	application- accelerator
crypto generate	Generates a self-signed certificate or a certificate signing request.	privileged-level EXEC	All
crypto import	Imports SSL certificate and key files.	privileged-level EXEC	application- accelerator

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>crypto pki</code>	Initializes the PKI managed store.	privileged-level EXEC	All
<code>(config) crypto pki</code>	Configures public key infrastructure (PKI) encryption parameters.	global configuration	All
<code>(config) crypto ssl</code>	Configures secure sockets layer (SSL) encryption parameters.	global configuration	All
<code>debug aaa accounting</code>	Configures AAA accounting debugging.	privileged-level EXEC	All
<code>debug aaa authorization</code>	Configures AAA authorization debugging.	privileged-level EXEC	All
<code>debug accelerator</code>	Configures accelerator debugging.	privileged-level EXEC	application- accelerator
<code>debug all</code>	Configures all debugging.	privileged-level EXEC	All
<code>debug appnav-controller connection</code>	Configures AppNav Controller debugging.	privileged-level EXEC	appnav-controller
<code>debug appnav-controller drop capture</code>	Configures AppNav Controller debugging	privileged-level EXEC	appnav-controller
<code>debug authentication</code>	Configures authentication debugging.	privileged-level EXEC	All
<code>debug auto-discovery</code>	Configures auto discovery debugging.	privileged-level EXEC	application- accelerator
<code>debug buf</code>	Configures buffer manager debugging.	privileged-level EXEC	All
<code>debug cdp</code>	Configures CDP debugging.	privileged-level EXEC	All
<code>debug cli</code>	Configures CLI debugging.	privileged-level EXEC	All
<code>debug cmm</code>	Configures cluster membership manager debugging.	privileged-level EXEC	All
<code>debug cms</code>	Configures CMS debugging.	privileged-level EXEC	All
<code>debug connection</code>	Configures connection debugging.	privileged-level EXEC	application- accelerator
<code>debug controllers</code>	Configures interface controller capture debugging.	privileged-level EXEC	application- accelerator appnav-controller
<code>debug dataserver</code>	Configures data server debugging.	privileged-level EXEC	All
<code>debug dhcp</code>	Configures DHCP debugging.	privileged-level EXEC	All
<code>debug dre</code>	Configures DRE debugging.	privileged-level EXEC	application- accelerator

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>debug egress-method</code>	Configures egress method debugging.	privileged-level EXEC	application- accelerator
<code>debug encryption-service</code>	Configures encryption service debugging.	privileged-level EXEC	All
<code>debug fda</code>	Configures flow distribution agent service debugging.	privileged-level EXEC	All
<code>debug fdm</code>	Configures flow distribution manager service debugging.	privileged-level EXEC	All
<code>debug filtering</code>	Configures filtering debugging.	privileged-level EXEC	application- accelerator
<code>debug flow</code>	Configures network traffic flow debugging.	privileged-level EXEC	All
<code>debug generic-gre</code>	Configures generic GRE egress method debugging.	privileged-level EXEC	application- accelerator
<code>debug hw-raid</code>	Configures hardware RAID debugging.	privileged-level EXEC	All
<code>debug imd</code>	Configures interface manager debugging.	privileged-level EXEC	All
<code>debug inline</code>	Configures inline debugging.	privileged-level EXEC	All
<code>debug key-manager</code>	Configures key manager debugging.	privileged-level EXEC	central-manager
<code>debug logging</code>	Configures logging debugging.	privileged-level EXEC	All
<code>debug monapi</code>	Configures monitoring API debugging.	privileged-level EXEC	central-manager
<code>debug nplogd</code>	Configures NP log daemon debugging.	privileged-level EXEC	appnav-controller
<code>debug ntp</code>	Configures NTP debugging.	privileged-level EXEC	All
<code>debug punt</code>	Configures punt handler debugging.	privileged-level EXEC	appnav-controller
<code>debug rbcpc</code>	Configures RBCP debugging.	privileged-level EXEC	application- accelerator
<code>debug rmd</code>	Configures route manager debugging.	privileged-level EXEC	All
<code>debug rpc</code>	Configures record remote procedure calls debugging.	privileged-level EXEC	All
<code>debug service-insertion</code>	Configures service-insertion module debugging.	privileged-level EXEC	All
<code>debug service-policy</code>	Configures service policy debugging.	privileged-level EXEC	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>debug snmp</code>	Configures SNMP debugging.	privileged-level EXEC	All
<code>debug standby</code>	Configures standby debugging.	privileged-level EXEC	application- accelerator
<code>debug statistics</code>	Configures statistics debugging.	privileged-level EXEC	All
<code>debug tfo</code>	Configures TFO flow optimization debugging.	privileged-level EXEC	application- accelerator
<code>debug translog</code>	Configures transaction logging debugging.	privileged-level EXEC	application- accelerator
<code>debug wccp</code>	Configures WCCP information debugging.	privileged-level EXEC	application- accelerator
<code>(config-std-nacl) delete</code>	Deletes a line from the standard ACL.	standard ACL configuration	All
<code>(config-ext-nacl) delete</code>	Deletes a line from the extended ACL.	extended ACL configuration	All
<code>delfile</code>	Deletes a file.	privileged-level EXEC	All
<code>deltree</code>	Deletes a directory and its subdirectories.	privileged-level EXEC	All
<code>(config-std-nacl) deny</code>	Adds a line to a standard access list that specifies the type of packets that you want the WAAS device to drop.	standard ACL configuration	All
<code>(config-ext-nacl) deny</code>	Adds a line to an extended access-list that specifies the type of packets that you want the WAAS device to drop.	extended ACL configuration	All
<code>(config-ca) description</code>	Configures a description for the certification authority.	certification authority configuration	All
<code>(config-cmap) description</code>	Configures the class map description.	class map configuration	application- accelerator appnav-controller
<code>(config-if) description</code>	Configures the description for an interface.	interface configuration	All
<code>(config-pmap) description</code>	Configures the policy map description.	policy map configuration	application- accelerator appnav-controller
<code>(config-scg) description</code>	Configures the ANC description.	ANCG configuration	appnav-controller
<code>(config-scxt) description</code>	Configures the service context description.	service context configuration	appnav-controller
<code>(config-sn) description</code>	Configures the WN description.	service node configuration	application- accelerator appnav-controller

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config-sng) description	Configures the WNG description.	service node group configuration	appnav-controller
(config-ssl-accelerated) description	Configures a description for SSL accelerated service.	SSL accelerated service configuration	All
(config) device mode	Specifies the device mode of the WAAS device.	global configuration	All
dir	Displays the files in a long list format.	user-level EXEC and privileged-level EXEC	All
disable	Turns off the privileged EXEC commands.	privileged-level EXEC	All
disk	Configures the disks on the WAAS device.	privileged-level EXEC	All
(config) disk disk-name	Disables the disk for online removal.	global configuration	application-accelerator central-manager
(config) disk cache	Configures Akamai cache and Object cache partitions	global configuration	application-accelerator
(config) disk encrypt	Enables disk encryption.	global configuration	application- accelerator
(config) disk error-handling	Configures how the disk errors should be handled.	global configuration	All
(config) disk logical shutdown	Shuts down the RAID-5 logical disk drive.	global configuration	All
(config) disk object-cache extend	Enables extended object cache.	global configuration	All
(config-pmap-c) distribute	Configures the WAAS node group to which to distribute traffic in an AppNav policy rule.	policy map class configuration	appnav-controller
dnslookup	Resolves a DNS hostname.	user-level EXEC and privileged-level EXEC	All
(config) dre	Enables and configures DRE auto bypass and load monitor settings.	global configuration	application- accelerator
(config-wccp-service) egress-method	Configures the WCCP egress method.	WCCP configuration	application- accelerator appnav-controller
enable*	Accesses the privileged EXEC commands.	user-level EXEC	All
(config-scxt) enable	Enables or disables the service context.	service context configuration	appnav-controller

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config-sn) enable	Enables or disables a WN.	service node configuration	application- accelerator appnav-controller
(config-wccp-service) enable	Enables or disables WCCP.	WCCP configuration	application- accelerator appnav-controller
(config-if) encapsulation dot1Q	Sets the VLAN ID of traffic leaving an inline group interface.	interface configuration	application- accelerator
(config) end	Exits configuration and privileged EXEC modes.	global configuration	All
(config) exec-timeout	Configures the length of time that an inactive Telnet or SSH session remains open.	global configuration	All
exit	Exits from privileged EXEC mode.	privileged-level EXEC	All
(config) exit	Exits from global configuration mode.	global configuration	All
(config-if) exit	Exits from interface configuration mode.	interface configuration	All
(config-std-nacl) exit	Exits from standard ACL configuration mode.	standard ACL configuration	All
(config-ext-nacl) exit	Exits from extended ACL configuration mode.	extended ACL configuration	All
(config-wccp-service) exit	Exits from WCCP configuration mode.	WCCP configuration	application- accelerator appnav-controller
(config-if) failover timeout	Configures the maximum time for the inline interface to transition traffic to another port after a failure event.	interface configuration	All
(config-wccp-service) failure-detection	Configure the WCCP failure detection timeout.	WCCP configuration	application- accelerator appnav-controller
find-pattern	Searches for a particular pattern in a file.	privileged-level EXEC	All
(config) flow monitor	Configures network traffic flow monitoring.	global configuration	application- accelerator
(config-if) full-duplex	Sets the current interface to the full-duplex mode.	interface configuration	All
(config-if) half-duplex	Sets the current interface to half-duplex mode.	interface configuration	All
help	Provides assistance for the WAAS command-line interface in EXEC mode.	user-level EXEC and privileged-level EXEC	All
(config) help	Provides assistance for the WAAS command-line interface.	global configuration	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config) hostname	Configures the hostname of the WAAS device in global configuration mode.	global configuration	All
(config) inetd	Enables FTP, RCP, and TFTP services.	global configuration	All
(config) inline	Configures the ports on an interface module to operate in inline mode.	global configuration	application- accelerator
(config-if) inline	Configures inline interception for an inlineGroup interface.	interface configuration	All
(config) inline vlan-id-connection-check	Enables VLAN ID checking on intercepted traffic.	global configuration	application- accelerator
(config-ssl-accelerated) inservice	Enables the accelerated service.	SSL accelerated service configuration	All
install	Installs a new image into Flash memory.	privileged-level EXEC	All
(config) interception	Configures an interception access list.	global configuration	All
(config) interception-method	Configures an interception access list.	global configuration	application- accelerator appnav-controller
(config) interface GigabitEthernet*	Configures a Gigabit Ethernet interface. Provides access to interface configuration mode.	global configuration	All
(config) interface InlineGroup*	Configures a Inline Group channel, or standby interface. Provides access to interface configuration mode.	global configuration	All
(config) interface PortChannel*	Configures a port channel interface. Provides access to interface configuration mode.	global configuration	All
(config) interface standby*	Configures a standby interface. Provides access to interface configuration mode.	global configuration	All
(config) interface TenGigabitEthernet*	Configures a 10-Gigabit Ethernet interface. Provides access to interface configuration mode.	global configuration	All
(config) ip	Configures the initial network device configuration settings (for example, the IP address of the default gateway) on a WAAS device.	global configuration	All
(config-if) ip	Configures the IP address, subnet mask, or DHCP IP address negotiation on the interface of the WAAS device or inline module.	interface configuration	All
(config-if) ip access-group	Controls the connections on a specific interface by applying a predefined access list.	interface configuration	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config) ip access-list*	Creates and modifies the access lists for controlling access to interfaces or applications. Provides access to ACL configuration mode.	global configuration	All
(config) ip icmp rate-limit unreachable	Limits the rate at which Internet Control Message Protocol (ICMP) destination unreachable messages are generated.	global configuration	All
(config) ip unreachable df	Enables the IP unreachable ICMP service.	global configuration	All
(config) kerberos	Configures user authentication against a Kerberos database.	global configuration	All
(config) kernel kdb	Enables the kernel debugger configuration mode.	global configuration	All
(config) kernel kdump enable	Enables the kernel crash dump mechanism.	global configuration	All
less	Displays the contents of a file using the LESS application.	user-level EXEC and privileged-level EXEC	All
license add	Adds a software license.	privileged-level EXEC	All
(config) line	Specifies the terminal line settings.	global configuration	All
(config-std-nacl) list	Displays a list of specified entries within the standard ACL	standard ACL configuration	All
(config-ext-nacl) list	Displays a list of specified entries within the extended ACL	extended ACL configuration	All
lls	Displays the files in a long list format.	user-level EXEC and privileged-level EXEC	All
(config-if) load-interval	Configures the statistics polling interval for an interface.	interface configuration	All
(config) logging console	Configures system logging (syslog) to the console.	global configuration	All
(config) logging disk	Configures system logging (syslog) to a disk file.	global configuration	All
(config) logging facility	Sets the facility parameter for system logging (syslog).	global configuration	All
(config) logging host	Configures system logging (syslog) to a remote host.	global configuration	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>ls</code>	Lists the files and subdirectories in a directory on the device hard disk.	user-level EXEC and privileged-level EXEC	All
<code>lsusb</code>	Lists the files and subdirectories in a directory on a USB storage device.	user-level EXEC and privileged-level EXEC	All
<code>(config-ssl-global) machine-cert-key</code>	Configures a certificate and private key.	SSL global service configuration	All
<code>(config-cmap) match peer</code>	Configures a match condition based on peer ID for a class map.	class map configuration	application- accelerator appnav-controller
<code>(config-cmap) match protocol</code>	Configures a match condition based on layer 7 protocol for a class map.	class map configuration	application- accelerator appnav-controller
<code>(config-cmap) match tcp</code>	Configures a match condition based on source and/or destination IP address and port for a class map.	class map configuration	application- accelerator appnav-controller
<code>mkdir</code>	Makes a directory.	privileged-level EXEC	All
<code>mkfile</code>	Makes a file (for testing).	privileged-level EXEC	All
<code>monitor appnav-controller traffic</code>	Enable traffic monitoring on an AppNav Controller Interface Module.	privileged-level EXEC	appnav-controller
<code>(config-pmap-c) monitor-load</code>	Configures the application accelerator to monitor in an AppNav policy rule.	policy map class configuration	appnav-controller
<code>(config-std-nacl) move</code>	Moves a line to a new position within the standard ACL	standard ACL configuration	All
<code>(config-ext-nacl) move</code>	Moves a line to a new position within the extended ACL	extended ACL configuration	All
<code>(config-if) mtu</code>	Sets the interface Maximum Transmission Unit (MTU) packet size.	interface configuration	All
<code>(config) ntp</code>	Configures the NTP server.	global configuration	All
<code>ntpdate</code>	Sets the NTP server name.	privileged-level EXEC	All
<code>(config-pki-global-settings) ocsp</code>	Configures the URL to be used as the global settings for the Online Certificate Status Protocol (OCSP) protocol revocation status checking.	PKI global-settings configuration	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config-pmap-c) optimize	Configures optimization actions in a WAAS optimization policy.	policy map class configuration	application- accelerator appnav-controller
packet-capture	Captures packets.	privileged-level EXEC	All
(config-pmap-c) pass-through	Configures the pass-through action in an AppNav or optimization policy rule.	policy map class configuration	application- accelerator appnav-controller
(config-wccp-service) password	Configures the WCCP service password.	WCCP configuration	application- accelerator appnav-controller
(config) peer	Enables/disables peer optimization.	global configuration	application- accelerator
(config-ssl-peering) peer-cert-verify	Enables verification of peer certificates.	SSL host peering service configuration	All
(config-ssl-mgmt) peer-cert-verify	Enables verification of peer certificates.	SSL management service configuration	All
(config-std-nacl) permit	Adds a line to a standard access list that specifies the type of packets that you want the WAAS device to permit for further processing.	standard ACL configuration	All
(config-ext-nacl) permit	Adds a line to an extended access list that specifies the type of packets that you want the WAAS device to permit for further processing.	extended ACL configuration	All
ping	Sends the echo packets.	user-level EXEC and privileged-level EXEC	All
(config) policy-map	Configures AppNav and optimization policy maps.	global configuration	application- accelerator appnav-controller
(config) port-channel	Configures the port channel load-balancing options.	global configuration	All
(config) primary-interface	Configures a primary interface for the WAAS device.	global configuration	All
(config) radius-server	Enables and disables WAAS print services and configures an administrative group.	global configuration	All
pwd	Displays the present working directory.	user-level EXEC and privileged-level EXEC	All
(config) radius-server	Configures the RADIUS parameters on a WAAS device.	global configuration	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config-wccp-service) redirect-method	Configures the WCCP redirect method.	WCCP configuration	application- accelerator appnav-controller
reload	Halts a device and performs a cold restart.	privileged-level EXEC	All
rename	Renames a file.	privileged-level EXEC	All
restore	Restores a device to its manufactured default status.	privileged-level EXEC	All
(config-ca) revocation-check	Configures the certification authority revocation checking method.	certification authority configuration	All
(config-pki-global-settings) revocation-check	Configures the the global settings revocation checking method.	PKI global-settings configuration	All
rmdir	Removes a directory.	privileged-level EXEC	All
(config-wccp-service) router-list-num	Configures the WCCP router list.	WCCP configuration	application- accelerator appnav-controller
scp	Specifies the SCP client.	privileged-level EXEC	All
script	Checks the errors in a script or executes a script.	privileged-level EXEC	All
(config-ssl-accelerated) server-cert-key	Configures a certificate and private key.	SSL accelerated service configuration	All
(config-ssl-accelerated) server-cert-verify	Enables verification of server certificates.	SSL accelerated service configuration	All
(config-ssl-accelerated) server-domain	Configures the accelerated server domain and TCP port.	SSL accelerated service configuration	All
(config-ssl-accelerated) server-ip	Configures the accelerated server IP address and TCP port.	SSL accelerated service configuration	All
(config-ssl-accelerated) server-name	Configures the accelerated server hostname and TCP port.	SSL accelerated service configuration	All
(config) service-insertion	Configures AppNav entities.	global configuration	application- accelerator appnav-controller
(config-sng) service-node	Configures the IP address and description of a WN to be added to the WNG.	service node group configuration	appnav-controller

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config-scxt) service-node-group	Configures the name of a WNG.	service context configuration	appnav-controller
(config) service-policy	Configures AppNav and optimization policy.	global configuration	application- accelerator appnav-controller
(config-pmap-c)service-policy	Configures a nested policy map in an AppNav policy rule.	policy map class configuration	appnav-controller
(config-scxt) service-policy	Configures the name of the AppNav policy.	service context configuration	appnav-controller
(config-pmap-c) set ip dscp	Configures the DSCP marking in a WAAS optimization policy.	policy map class configuration	application- accelerator appnav-controller
setup	Configures the basic configuration settings. Invokes the interactive setup utility.	privileged-level EXEC	All
show aaa accounting	Displays the AAA accounting configuration.	user-level EXEC and privileged-level EXEC	All
show aaa authorization	Displays the AAA authorization configuration.	user-level EXEC and privileged-level EXEC	All
show accelerator	Displays the status and configuration of the application accelerators.	privileged-level EXEC	application- accelerator
show alarms	Displays information on various types of alarms, their status, and history.	privileged-level EXEC	All
show appnav-controller flow-distribution	Displays ANC flow distribution information.	privileged-level EXEC	application- accelerator appnav-controller
show arp	Displays the ARP entries.	privileged-level EXEC	All
show authentication	Displays the authentication configuration.	user-level EXEC and privileged-level EXEC	All
show auto-discovery	Displays auto-discovery information for a WAE.	user-level EXEC and privileged-level EXEC	application- accelerator
show auto-register	Displays the status of the autoregistration feature for a WAE.	privileged-level EXEC	application- accelerator
show banner	Displays the message of the day, login, and EXEC banner settings.	privileged-level EXEC	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>show bmc</code>	Displays the Baseboard Management Controller information.	user-level EXEC and privileged-level EXEC	application- accelerator
<code>show cache</code> <code>http-metadatabcache</code>	Displays HTTP metadata cache information.	privileged-level EXEC	application- accelerator
<code>show cdp</code>	Displays the CDP configuration.	privileged-level EXEC	All
<code>show class-map</code>	Displays the matching criteria configured for a class map.	privileged-level EXEC	application- accelerator appnav-controller
<code>show clock</code>	Displays the system clock.	user-level EXEC and privileged-level EXEC	All
<code>show cms</code>	Displays the management service information.	privileged-level EXEC	All
<code>show cms secure-store</code>	Displays the secure disk encryption status.	privileged-level EXEC	All
<code>show crypto</code>	Displays crypto layer information.	user-level EXEC and privileged-level EXEC	All
<code>show debugging</code>	Displays the state of each debugging option.	privileged-level EXEC	All
<code>show device-id</code>	Displays the device ID.	user-level EXEC and privileged-level EXEC	All
<code>show device-mode</code>	Displays the device mode.	privileged-level EXEC	All
<code>show disks</code>	Displays the disk configurations.	user-level EXEC and privileged-level EXEC	All
<code>show filtering list</code>	Displays TFO flow information for a WAE.	privileged-level EXEC	application- accelerator
<code>show flash</code>	Displays the flash memory information.	privileged-level EXEC	All
<code>show flow record</code>	Displays collection information for a WAE device.	EXEC	application-accelerator central-manager
<code>show hardware</code>	Displays the system hardware information.	privileged-level EXEC	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
show hosts	Displays the IP domain name, name servers, IP addresses, and host table.	user-level EXEC and privileged-level EXEC	All
show inetd	Displays the status of TCP/IP services.	privileged-level EXEC	All
show interception-method	Displays the interception method.	privileged-level EXEC	application- accelerator appnav-controller
show interface	Displays the hardware interface information.	privileged-level EXEC	All
show inventory	Displays the system inventory information.	privileged-level EXEC	All
show ip access-list	Displays the information about access lists that are defined and applied to specific interfaces or applications.	privileged-level EXEC	All
show ip routes	Displays the IP routing table.	privileged-level EXEC	All
show kdump	Displays the kernel crash dump information.	privileged-level EXEC	All
show kerberos	Displays the Kerberos authentication configuration.	user-level EXEC and privileged-level EXEC	All
show key-manager	Displays the key manager information for a WAAS device.	privileged-level EXEC	All
show license	Displays the license information.	privileged-level EXEC	All
show logging	Displays the system logging configuration.	user-level EXEC and privileged-level EXEC	All
show memory	Displays the memory blocks and statistics.	privileged-level EXEC	All
show monitor	Displays the status of traffic monitoring on an AppNav Controller Interface Module.	privileged-level EXEC	appnav-controller
show ntp	Displays the NTP configuration status.	user-level EXEC and privileged-level EXEC	All
show peer optimization	Displays the configured serial peers for a WAE.	privileged-level EXEC	application- accelerator
show policy-map	Displays the configured policy map rules.	privileged-level EXEC	application- accelerator appnav-controller

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>show policy-sub-class</code>	Displays the matching criteria and flows for an AppNav class map.	privileged-level EXEC	appnav-controller
<code>show processes</code>	Displays the process status.	privileged-level EXEC	All
<code>show radius-server</code>	Displays the RADIUS server information.	user-level EXEC and privileged-level EXEC	All
<code>show reload</code>	Displays scheduled reload information.	user-level EXEC and privileged-level EXEC	All
<code>show running-config</code>	Displays the current operating configuration.	privileged-level EXEC	All
<code>show service-insertion</code>	Displays information about the ANC configuration.	privileged-level EXEC	application- accelerator appnav-controller
<code>show service-policy</code>	Displays optimization or AppNav policy information.	privileged-level EXEC	application- accelerator appnav-controller
<code>show services</code>	Displays information related to services.	privileged-level EXEC	All
<code>show smb-conf</code>	Displays the smb-conf configurations.	privileged-level EXEC	All
<code>show snmp</code>	Displays the SNMP statistics.	user-level EXEC and privileged-level EXEC	All
<code>show ssh</code>	Displays the status and configuration of the Secure Shell (SSH) service.	privileged-level EXEC	All
<code>show startup-config</code>	Displays the startup configuration.	privileged-level EXEC	All
<code>show statistics accelerator</code>	Displays the application accelerator statistics information.	privileged-level EXEC	application- accelerator
<code>show statistics aoim</code>	Displays AO (accelerator) Information Manager statistics.	privileged-level EXEC	application- accelerator
<code>show statistics application</code>	Displays the status of the application statistics.	privileged-level EXEC	All
<code>show statistics appnav-controller</code>	Displays statistics for an ANC.	privileged-level EXEC	appnav-controller
<code>show statistics authentication</code>	Displays the authentication statistics.	user-level EXEC and privileged-level EXEC	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
show statistics auto-discovery	Displays TFO auto-discovery statistics for a WAE.	user-level EXEC and privileged-level EXEC	application- accelerator
show statistics class-default	Displays statistics information about the class-default class map.	privileged-level EXEC	application- accelerator appnav-controller
show statistics class-map	Displays statistics information about about class maps.	privileged-level EXEC	application- accelerator appnav-controller
show statistics connection	Displays the connection statistics for a WAE.	privileged-level EXEC	application- accelerator
show statistics connection auto-discovery	Displays the auto-discovery connection statistics for a WAE.	privileged-level EXEC	application- accelerator
show statistics connection closed	Displays the closed connection statistics for a WAE.	privileged-level EXEC	application- accelerator
show statistics connection conn-id	Displays the connection ID statistics for a WAE.	privileged-level EXEC	application- accelerator
show statistics connection egress-methods	Displays detailed egress method-related information about the connection segments for a WAE.	privileged-level EXEC	application- accelerator
show statistics connection optimized	Displays optimized information about the connection segments for a WAE.	privileged-level EXEC	application- accelerator
show statistics connection pass-through	Displays pass through information about the connection segments for a WAE.	privileged-level EXEC	application- accelerator
show statistics crypto ssl ciphers	Displays crypto SSL cipher usage statistics.	privileged-level EXEC	application- accelerator
show statistics datamover	Displays internal datamover information.	user-level EXEC and privileged-level EXEC	application- accelerator
show statistics dre	Displays the Data Redundancy Elimination (DRE) statistics for a WAE.	privileged-level EXEC	application- accelerator
show statistics filtering	Displays TFO flow statistics for a WAE.	user-level EXEC and privileged-level EXEC	application- accelerator
show statistics flow	Displays the flow statistics.	user-level EXEC and privileged-level EXEC	application- accelerator
show statistics generic-gre	Displays the generic GRE tunnel statistics.	user-level EXEC and privileged-level EXEC	application- accelerator

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>show statistics icmp</code>	Displays the ICMP statistics.	user-level EXEC and privileged-level EXEC	All
<code>show statistics ip</code>	Displays the IP statistics.	user-level EXEC and privileged-level EXEC	All
<code>show statistics monitor appnav-controller traffic</code>	Displays traffic monitoring statistics for an AppNav Controller Interface Module.	user-level EXEC and privileged-level EXEC	appnav-controller
<code>show statistics netstat</code>	Displays the Internet socket connection statistics.	user-level EXEC and privileged-level EXEC	All
<code>show statistics pass-through</code>	Displays the pass-through statistics.	privileged-level EXEC	application- accelerator
<code>show statistics peer</code>	Displays the DRE peer statistics for a WAE.	privileged-level EXEC	application- accelerator
<code>show statistics policy-sub-class</code>	Displays the statistics for an AppNav class map.	privileged-level EXEC	appnav-controller
<code>show statistics punt</code>	Displays the punt statistics.	privileged-level EXEC	appnav-controller
<code>show statistics radius</code>	Displays the RADIUS authentication statistics.	user-level EXEC and privileged-level EXEC	All
<code>show statistics service-insertion</code>	Displays service context statistics.	user-level EXEC and privileged-level EXEC	appnav-controller
<code>show statistics services</code>	Displays the services statistics.	user-level EXEC and privileged-level EXEC	All
<code>show statistics sessions</code>	Displays the dynamic match session statistics.	user-level EXEC and privileged-level EXEC	application- accelerator appnav-controller
<code>show statistics snmp</code>	Displays the SNMP statistics.	user-level EXEC and privileged-level EXEC	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>show statistics synq</code>	Displays detailed parameters of the cpu utilization.	user-level EXEC and privileged-level EXEC	application- accelerator
<code>show statistics tacacs</code>	Displays the TACACS+ authentication and authorization statistics.	user-level EXEC and privileged-level EXEC	All
<code>show statistics tcp</code>	Displays the Transmission Control Protocol statistics.	user-level EXEC and privileged-level EXEC	All
<code>show statistics tfo</code>	Displays the Transport Flow Optimization (TFO) statistics for a WAE.	user-level EXEC and privileged-level EXEC	application- accelerator
<code>show statistics udp</code>	Displays the User Datagram Protocol (UDP) statistics.	user-level EXEC and privileged-level EXEC	All
<code>show statistics wccp</code>	Displays the WCCP statistics for a WAE.	user-level EXEC and privileged-level EXEC	application- accelerator
<code>show statistics windows-domain</code>	Displays the Windows domain configuration.	user-level EXEC and privileged-level EXEC	All
<code>show synq list</code>	Displays system file system information.	privileged-level EXEC	application- accelerator
<code>show sysfs volumes</code>	Displays the system file system (SYSFS) information.	user-level EXEC and privileged-level EXEC	All
<code>show tacacs</code>	Displays the TACACS+ configuration.	user-level EXEC and privileged-level EXEC	All
<code>show tcp</code>	Displays the TCP configuration.	user-level EXEC and privileged-level EXEC	All
<code>show tech-support</code>	Displays the system information for Cisco technical support.	privileged-level EXEC	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>show telnet</code>	Displays the Telnet services configuration.	privileged-level EXEC	All
<code>show tfo tcp</code>	Displays TFO TCP buffer information.	privileged-level EXEC	application- accelerator
<code>show transaction-logging</code>	Displays the transaction logging information for a WAE.	user-level EXEC and privileged-level EXEC	application- accelerator
<code>show user</code>	Displays information about a particular user.	privileged-level EXEC	All
<code>show users administrative</code>	Displays the administrative users.	user-level EXEC and privileged-level EXEC	All
<code>show version</code>	Displays the software version.	user-level EXEC and privileged-level EXEC	All
<code>show wccp</code>	Displays the WCCP information for a WAE.	user-level EXEC and privileged-level EXEC	application- accelerator
<code>show windows-domain</code>	Displays the Windows domain configuration.	user-level EXEC and privileged-level EXEC	All
<code>(config-if) shutdown</code>	Shuts down the specified interface.	interface configuration	All
<code>(config-sn) shutdown</code>	Configures the WN shutdown timeout.	service node configuration	application- accelerator appnav-controller
<code>shutdown</code>	Shuts down the device (stops all applications and operating system).	privileged-level EXEC	All
<code>(config) smb-conf</code>	Manually configures parameters in the Samba configuration file, <i>smb-conf</i> .	global configuration	All
<code>(config) snmp-server access-list</code>	Configures an access control list to allow access through an SNMP agent.	global configuration	All
<code>(config) snmp-server community</code>	Enables SNMP; sets the community string, optionally names the group, and enables the read-write access with the community string.	global configuration	All
<code>(config) snmp-server contact</code>	Specifies the text for the system contact MIB object.	global configuration	All
<code>(config) snmp-server enable traps</code>	Enables the SNMP traps.	global configuration	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config) snmp-server group	Defines a user security model group.	global configuration	All
(config) snmp-server host	Specifies the hosts to receive SNMP traps.	global configuration	All
(config) snmp-server location	Specifies the path for MIB object sysLocation.	global configuration	All
(config) snmp-server mib	Configures the persistence for the SNMP Event MIB.	global configuration	All
(config) snmp-server notify inform	Configures the SNMP inform request.	global configuration	All
(config) snmp-server trap-source	Configures the SNMP trap source.	global configuration	All
(config) snmp-server user	Defines a user who can access the SNMP engine.	global configuration	All
(config) snmp-server view	Defines an SNMPv2 MIB view.	global configuration	All
ssh	Creates or deletes SNMP triggers on a MIB variable.	privileged-level EXEC	All
ssh	Allows secure encrypted communications between an untrusted client machine and a WAAS device over an insecure network.	user-level EXEC and privileged-level EXEC	All
(config) sshd	Configures the parameters for the Secure Shell (SSH) service.	global configuration	All
(config) ssh-key-generate	Generates a SSH host key.	global configuration	All
(config-if) standby	Configures an interface to be a backup for another interface.	interface configuration	All
(config) stats-collector logging	Configures SMB statistics logging.	global configuration	application- accelerator appnav-controller
(config) system jumbomtu	Configures a jumbo MTU on all interfaces.	global configuration	application- accelerator appnav-controller
(config) tacacs	Configures the TACACS+ parameters on a WAAS device.	global configuration	All
(config) tcp	Configures the TCP parameters.	global configuration	All
tcpdump	Dumps the TCP traffic on the network.	privileged-level EXEC	All
telnet	Starts the Telnet client.	user-level EXEC and privileged-level EXEC	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
(config) telnet enable	Enables the Telnet services.	global configuration	All
terminal	Sets the terminal output commands.	user-level EXEC and privileged-level EXEC	All
test	Performs diagnostic tests and displays the results.	user-level EXEC and privileged-level EXEC	All
tethereal	Analyzes network traffic from the command line.	privileged-level EXEC	All
(config) tfo exception	Configures TFO exception handling.	global configuration	application- accelerator
(config) tfo optimize	Configures TFO optimization for DRE or full generic optimization on the WAE.	global configuration	application- accelerator
(config) tfo tcp adaptive-buffer-sizing	Configures TFO optimization with TCP adaptive buffer sizing.	global configuration	application- accelerator
(config) tfo tcp keepalive	Configures TFO optimization with a TCP keepalive on a WAE.	global configuration	application- accelerator
(config) tfo tcp optimized-mss	Configures TFO optimization with an optimized-side TCP maximum segment size on a WAE.	global configuration	application- accelerator
(config) tfo tcp optimized-receive-buffer	Configures TFO optimization with an optimized-side receive buffer on a WAE.	global configuration	application- accelerator
(config) tfo tcp optimized-send-buffer	Configures TFO optimization with an optimized-side send buffer on a WAE.	global configuration	application- accelerator
(config) tfo tcp original-mss	Configures TFO optimization with an unoptimized-side TCP maximum segment size on the WAE.	global configuration	application- accelerator
(config) tfo tcp original-receive-buffer	Configures TFO optimization with an unoptimized-side receive buffer on a WAE.	global configuration	application- accelerator
(config) tfo tcp original-send-buffer	Configures TFO optimization with an unoptimized-side send buffer on a WAE.	global configuration	application- accelerator
(config) threshold-monitor	Configures monitoring thresholds in a WAAS deployment.	global configuration	application- accelerator appnav-controller
top	Displays the current top CPU activities.	privileged-level EXEC	All
traceroute	Traces the route to a remote host.	user-level EXEC and privileged-level EXEC	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>transaction-log</code>	Forces the transaction logging for TFO and export on a WAE.	privileged-level EXEC	application- accelerator
<code>type</code>	Displays a file.	user-level EXEC and privileged-level EXEC	All
<code>type-tail</code>	Displays the last several lines of a file.	user-level EXEC and privileged-level EXEC	All
<code>(config) username</code>	Establishes the username authentication.	global configuration	All
<code>(config-ssl-accelerated) version</code>	Specifies the type of SSL protocol to use for accelerated services.	SSL accelerated service configuration	All
<code>(config-ssl-global) version</code>	Specifies the type of SSL protocol to use for global services.	SSL global service configuration	All
<code>(config-ssl-peering) version</code>	Specifies the type of SSL protocol to use for management services.	SSL host peering service configuration	All
<code>(config-ssl-mgmt) version</code>	Specifies the type of SSL protocol to use for management services.	SSL management service configuration	All
<code>vm</code>	Initializes the virtual machine, and configures the host clock sync setting.	privileged-level EXEC	application- accelerator
<code>(config) wccp access-list</code>	Configures the IP access list for inbound Web Cache Coordination Protocol (WCCP) GRE-encapsulated traffic on a WAE.	global configuration	application- accelerator
<code>(config) wccp flow-redirect</code>	Enables the WCCP flow protection feature on a WAE.	global configuration	application- accelerator
<code>(config) wccp router-list</code>	Creates a router list on a WAE for use in the WCCP Version 2 services.	global configuration	application- accelerator
<code>(config) wccp shutdown</code>	Sets the maximum time interval after which the WAE will perform a clean shut down.	global configuration	application- accelerator
<code>(config) wccp tcp-promiscuous service-pair</code>	Configures and enables the TCP promiscuous mode service on a WAE.	global configuration	application- accelerator
<code>(config-wccp-service) weight</code>	Configures the weight assigned to a WAE.	WCCP configuration	application- accelerator appnav-controller
<code>waas-tcptrace</code>	Lists WAAS devices in the path to a destination host.	user-level EXEC and privileged-level EXEC	All

Table 2-1 Command Summary (continued)

Command	Description	CLI Mode	Device Mode
<code>whoami</code>	Displays the name of the current user.	user-level EXEC and privileged-level EXEC	All
<code>windows-domain</code>	Accesses Windows domain utilities.	privileged-level EXEC	All
<code>(config) windows-domain</code>	Configures Windows domain server options.	global configuration	All
<code>write</code>	Writes or erases the startup configurations to NVRAM or to a terminal session, or writes the MIB persistence configuration to disk.	privileged-level EXEC	All

