

cd

To set the default Flash device for the system, use the **cd** command.

```
cd [[m/]device:]
```

Syntax Description	<i>m/</i>	(Optional) Module number of the supervisor engine containing the Flash device.
	<i>device</i> :	(Optional) Valid devices include bootflash and slot0 .

Defaults The default Flash device is bootflash.

Command Types Switch command.

Command Modes Normal.

Usage Guidelines A colon (:) is required after the specified device.
With commands where the device is an option, if the default device is not specified, the device set by the **cd** command is used.

Examples This example shows how to set the system default Flash device to bootflash:

```
Console> cd bootflash:  
Default flash device set to bootflash.  
Console>
```

Related Commands [pwd](#)

clear aclog

To disable ACL log rate limiting, use the **clear aclog** command.

clear aclog

Syntax Description This command has no arguments or keywords.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to disable ACL log rate limiting:

```
Console> (enable) clear aclog
ACL log rate limit is cleared.
If the ACLs-LOG were already applied, the rate limit mechanism will be disabled on system
restart, or after shut/no shut the interface.
Console> (enable)
```

Related Commands [set aclog ratelimit](#)
[show aclog](#)

clear alias

To clear the abbreviated versions of commands, use the **clear alias** command.

```
clear alias {name | all}
```

Syntax Description	<i>name</i>	Alternate identifier of the command.
	all	Clears every alternate identifier previously created.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to erase the arpdel alias:

```
Console> (enable) clear alias arpdel  
Command alias deleted.  
Console> (enable)
```

This example shows how to erase all the aliases:

```
Console> (enable) clear alias all  
Command alias table cleared. (1)  
Console> (enable)
```

(1) indicates the number of command aliases cleared.

Related Commands [set alias](#)
[show alias](#)

clear arp

To delete a specific entry or all entries from the ARP table, use the **clear arp** command.

```
clear arp [all | dynamic | permanent | static] {ip_addr}
```

Syntax Description	
all	(Optional) Clears all ARP entries.
dynamic	(Optional) Clears all dynamic ARP entries.
permanent	(Optional) Clears all permanent ARP entries.
static	(Optional) Clears all static ARP entries.
<i>ip_addr</i>	IP address to clear from the ARP table.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to remove IP address 198.133.219.209 from the ARP table:

```
Console> (enable) clear arp 198.133.219.209
ARP entry deleted.
Console> (enable)
```

This example shows how to remove all entries from the ARP table:

```
Console> (enable) clear arp all
ARP table cleared. (1)
Console> (enable)
```

(1) indicates the number of entries cleared.

This example shows how to remove all dynamically learned ARP entries:

```
Console> (enable) clear arp dynamic
Unknown host
Dynamic ARP entries cleared. (3)
Console> (enable)
```

This example shows how to clear all permanently entered ARP entries:

```
Console> (enable) clear arp permanent
Unknown host
Permanent ARP entries cleared. (5)
Console> (enable)
```

Related Commands [set arp](#)
[show arp](#)

clear banner motd

To clear the message-of-the-day banner, use the **clear banner motd** command.

clear banner motd

Syntax Description This command has no arguments or keywords.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear the message-of-the-day banner:

```
Console> (enable) clear banner motd
MOTD banner cleared
Console> (enable)
```

Related Commands [set banner motd](#)

clear boot auto-config

To clear the contents of the CONFIG_FILE environment variable used to specify the configuration files used during bootup, use the **clear boot auto-config** command.

clear boot auto-config [*mod*]

Syntax Description	<i>mod</i> (Optional) Module number of the supervisor engine containing the Flash device.
Defaults	This command has no default settings.
Command Types	Switch command.
Command Modes	Privileged.
Examples	<p>This example shows how to clear the auto-config file:</p> <pre> Console> (enable) clear boot auto-config CONFIG_FILE variable = Console> (enable) </pre>
Related Commands	<p>set boot auto-config show boot</p>

clear boot device

To clear the contents of the CONFIG_FILE environment variable used to specify the NAM startup configuration files used, use the **clear boot device** command.

clear boot device *mod*

Syntax Description	<i>mod</i>	Number of the module containing the Flash device.
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Defaults	This command has no default settings.
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Command Types	Switch command.
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Command Modes	Privileged.
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Usage Guidelines	This command is supported by the NAM module only.
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Examples	This example shows how to clear the NAM boot string from NVRAM for module 2:
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```
Console> (enable) clear boot device 2  
Device BOOT variable =  
Console> (enable)
```

Related Commands	set boot device show boot device
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clear boot system

To clear the contents of the BOOT environment variable and the configuration register setting, use the **clear boot system** command.

```
clear boot system all [mod]
```

```
clear boot system flash device:[filename] [mod]
```

Syntax Description

all	Clears the whole BOOT environment variable.
<i>mod</i>	(Optional) Module number of the supervisor engine containing the Flash device.
flash	(Optional) Clears the Flash device.
<i>device</i> :	Name of the Flash device.
<i>filename</i>	(Optional) Filename of the Flash device.

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Examples

This example shows how to clear the whole BOOT environment variable:

```
Console> (enable) clear boot system all
BOOT variable =
Console> (enable)
```

This example shows how to clear a specific device; note how the specified device is not listed:

```
Console> (enable) clear boot system flash bootflash:cat6000-sup.5-5-1.bin
BOOT variable = bootflash:cat6000-sup.6-1-1.bin,1;bootflash:cat6000-sup.5-5-2.
bin,1;
Console> (enable)
```

Related Commands

[set boot system flash](#)
[show boot](#)

clear cam

To delete a specific entry or all entries from the CAM table, use the **clear cam** command.

```
clear cam mac_addr [vlan]
```

```
clear cam {dynamic | static | permanent} [vlan]
```

Syntax Description	
<i>mac_addr</i>	One or more MAC addresses.
<i>vlan</i>	(Optional) Number of the VLAN; valid values are from 1 to 1000 and from 1025 to 4094 .
dynamic	Clears the dynamic CAM entries from the CAM table.
static	Clears the static CAM entries from the CAM table.
permanent	Clears the permanent CAM entries from the CAM table.

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Examples

This example shows how to remove MAC address 00-40-0b-a0-03-fa from the CAM table:

```
Console> (enable) clear cam 00-40-0b-a0-03-fa
CAM table entry cleared.
Console> (enable)
```

This example shows how to clear dynamic entries from the CAM table:

```
Console> (enable) clear cam dynamic
Dynamic CAM entries cleared.
Console> (enable)
```

Related Commands

[set cam](#)
[show cam](#)

clear cam notification

To clear the CAM notification counters and history log, use the **clear cam notification** command.

clear cam notification {all | counters | history}

Syntax Description	all	Clears the CAM notification counters and history log.
	counters	Clears the CAM notification counters.
	history	Clears the CAM notification history log.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear the CAM notification counters and history log:

```
Console> (enable) clear cam notification all
MAC address notification counters and history log cleared.
Console> (enable)
```

This example shows how to clear the CAM notification counters:

```
Console> (enable) clear cam notification counters
MAC address notification counters cleared.
Console> (enable)
```

This example shows how to clear the CAM notification history log:

```
Console> (enable) clear cam notification history
MAC address notification history log cleared.
Console> (enable)
```

Related Commands

- [set cam notification](#)
- [set snmp trap](#)
- [show cam notification](#)

clear channel statistics

To clear PAgP statistical information, use the **clear channel statistics** command.

clear channel statistics

Syntax Description This command has no arguments or keywords.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear PAgP statistical information:

```
Console> (enable) clear channel statistics  
PAgP statistics cleared.  
Console> (enable)
```

Related Commands [show channel](#)

clear config

To clear the system or module configuration information stored in NVRAM, use the **clear config** command.

clear config {*mod* | **rmon** | **all** | **snmpv3** | **acl nvram** | **interface**}

Syntax Description		
<i>mod</i>		Number of the module.
rmon		Clears all RMON configurations, including the historyControlTable, the alarmTable, the eventTable, and the ringStation ControlTable.
all		Clears all module and system configuration information, including the IP address.
snmpv3		Clears all SNMP version 3 configurations.
acl nvram		Clears all ACL configurations.
interface		Clears all interface configurations.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Usage Guidelines When you use a Multilayer Switch Module (MSM), you can enter the **clear config** command to clear the portion of the MSM configuration retained by the Catalyst 6500 series switch supervisor engine. You must clear the portion of the configuration kept by the MSM at the router level (router> prompt).

Before using the **clear config all** command, save a backup of the configuration using the **copy** command.

Examples This example shows how to delete the configuration information in NVRAM on module 2:

```
Console> (enable) clear config 2
This command will clear module 2 configuration.
Do you want to continue (y/n) [n]? y
.....
Module 2 configuration cleared.
Console> (enable)
```

This example shows how to delete the configuration information stored in NVRAM on module 1 (the supervisor engine):

```
Console> (enable) clear config 1
This command will clear module 1 configuration.
Do you want to continue (y/n) [n]? y
.....
Module 1 configuration cleared.
host%
```

This example shows how to delete all the configuration information for the Catalyst 6500 series switches:

```
Console> (enable) clear config all
This command will clear all configuration in NVRAM.
Do you want to continue (y/n) [n]? y
.....
Connection closed by foreign host
host%
```

This example shows how to delete all the SNMP configuration information for the Catalyst 6500 series switches:

```
Console> (enable) clear config snmpv3
This command will clear SNMPv3 configuration in NVRAM.
Do you want to continue (y/n) [n]? y
.....
Connection closed by foreign host
host%
```

This example shows how to delete all ACL configuration information from NVRAM:

```
Console> (enable) clear config acl nvram
ACL configuration has been deleted from NVRAM.
Warning:Use the copy commands to save the ACL configuration to a file
and the 'set boot config-register auto-config' commands to configure the
auto-config feature.
Console> (enable)
```

Related Commands

[set config acl nvram](#)
[show config qos acl](#)

clear config pvlan

To clear all private VLAN configurations in the system including port mappings, use the **clear config pvlan** command.

clear config pvlan

Syntax Description This command has no arguments or keywords.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear all private VLAN configurations in the system:

```
Console> (enable) clear config pvlan
This command will clear all private VLAN configurations.
Do you want to continue (y/n) [n]? y
VLAN 15 deleted
VLAN 16 deleted
VLAN 17 deleted
VLAN 18 deleted
Private VLAN configuration cleared.
Console> (enable)
```

Related Commands

- [clear pvlan mapping](#)
- [clear vlan](#)
- [configure](#)
- [set vlan](#)
- [set pvlan](#)
- [set pvlan mapping](#)
- [show config](#)
- [show pvlan](#)
- [show pvlan mapping](#)
- [show vlan](#)

clear cops

To clear Common Open Policy Service (COPS) configurations, use the **clear cops** command.

```
clear cops roles role1 [role2]...
```

```
clear cops all-roles
```

```
clear cops server all [diff-serv | rsvp]
```

```
clear cops server ipaddr [diff-serv | rsvp]
```

```
clear cops domain-name
```

Syntax Description	roles <i>role#</i>	Specifies the roles to clear.
	all-roles	Clears all roles.
	server	Specifies the COPS server.
	all	Clears all server tables.
	diff-serv	(Optional) Specifies the differentiated services server table.
	rsvp	(Optional) Specifies the RSVP+ server table.
	<i>ipaddr</i>	IP address or IP alias of the server.
	domain-name	Specifies the domain name of the server.

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

You can use the **clear cops all-roles** command to clear all roles from all ports.

Examples

This example shows how to clear specific roles:

```
Console> (enable) clear cops roles backbone_port main_port
Roles cleared.
Console> (enable)
```

This example shows how to clear all roles:

```
Console> (enable) clear cops all-roles
All roles cleared.
Console> (enable)
```

This example shows how to clear all COPS servers:

```
Console> (enable) clear cops server all  
All COPS servers cleared.  
Console> (enable)
```

This example shows how to clear a specific COPS server:

```
Console> (enable) clear cops server my_server1  
All COPS servers cleared.  
Console> (enable)
```

This example shows how to clear the COPS domain name:

```
Console> (enable) clear cops domain-name  
Domain name cleared.  
Console> (enable)
```

Related Commands

[set cops](#)
[show cops](#)

clear counters

To clear MAC counters, EtherChannel MAC counters, port counters, and the channel traffic percentile, use the **clear counters** command.

```
clear counters [all | mod/ports]
```

Syntax Description	
all	(Optional) Specifies all ports.
<i>mod/ports</i>	(Optional) Number of the module and the ports on the module.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Usage Guidelines If you do not specify a range of ports to be cleared, then all ports on the switch are cleared.

Examples This example shows how to reset MAC and port counters to zero:

```
Console> (enable) clear counters
This command will reset all MAC and port counters reported in CLI and SNMP.
Do you want to continue (y/n) [n]? y
```

```
MAC and Port counters cleared.
Console> (enable)
```

This example shows how to reset MAC and port counters to zero for a specific module and port:

```
Console> (enable) clear counters 5/1
This command will reset MAC and port counters reported by the CLI for port(s) 5/1.
Do you want to continue (y/n) [n]? y
```

```
MAC and Port counters cleared.
Console> (enable)
```

Related Commands [restore counters](#)
[show port counters](#)

clear crypto key rsa

To remove all RSA public-key pairs, use the **clear crypto key rsa** command.

clear crypto key rsa

Syntax Description This command has no keywords or arguments.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Usage Guidelines The **crypto** commands are supported on systems that run these image types only:

- supk9 image—for example, cat6000-supk9.6-1-3.bin
- supcvk9 image—for example, cat6000-supcvk9.6-1-3.bin

Examples This example shows how to clear RSA key pairs:

```
Console> (enable) clear crypto key rsa
Do you really want to clear RSA keys (y/n) [n]? y
RSA keys has been cleared.
Console> (enable)
```

Related Commands [set crypto key rsa](#)
[show crypto key](#)

clear dot1x config

To disable dot1x on all ports and return values to the default settings, use the **clear dot1x config** command.

clear dot1x config

Syntax Description This command has no keywords or arguments.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to disable dot1x and return values to the default settings:

```
Console> (enable) clear dot1x config
This command will disable Dot1x and take values back to factory default.

Do you want to continue (y/n) [n]? y
Dot1x config cleared.
Console> (enable)
```

Related Commands

- [set port dot1x](#)
- [show dot1x](#)
- [show port dot1x](#)

clear dot1x guest-vlan

To remove any active 802.1x auto ports from the guest VLAN, use the **clear dot1x guest-vlan** command.

clear dot1x guest-vlan

Syntax Description This command has no keywords or arguments.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear the guest VLAN:

```
Console> (enable) clear dot1x guest-vlan
This command will deactivate all the ports on dot1x guest-vlan
Do you want to continue (y/n) [n]? y
Dot1x guest-vlan cleared
Console> (enable)
```

Related Commands

- [set dot1x](#)
- [set port dot1x](#)
- [show dot1x](#)
- [show port dot1x](#)

clear gmrp statistics

To clear all the GMRP statistics information from a specified VLAN or all VLANs, use the **clear gmrp statistics** command.

```
clear gmrp statistics {vlan | all}
```

Syntax Description	<i>vlan</i>	Number of the VLAN; valid values are from 1 to 1000 and from 1025 to 4094 .
	all	Specifies all VLANs.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear GMRP statistical information from all VLANs:

```
Console> (enable) clear gmrp statistics all  
GMRP statistics cleared.  
Console> (enable)
```

This example shows how to clear GMRP statistical information from VLAN 1:

```
Console> (enable) clear gmrp statistics 1  
GMRP statistics cleared from VLAN 1.  
Console> (enable)
```

Related Commands [show gmrp statistics](#)

clear gvrp statistics

To clear all the GVRP statistics information, use the **clear gvrp statistics** command.

```
clear gvrp statistics {mod/port | all}
```

Syntax Description	
<i>mod/port</i>	Number of the module and port.
all	Specifies all ports.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear all GVRP statistical information:

```
Console> (enable) clear gvrp statistics all
GVRP statistics cleared for all ports.
Console> (enable)
```

This example shows how to clear GVRP statistical information for module 2, port 1:

```
Console> (enable) clear gvrp statistics 2/1
GVRP statistics cleared on port 2/1.
Console> (enable)
```

Related Commands [set gvrp](#)
[show gvrp configuration](#)

clear igmp statistics

To clear IGMP snooping statistical information, use the **clear igmp statistics** command.

clear igmp statistics

Syntax Description This command has no arguments or keywords.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear IGMP statistical information:

```
Console> (enable) clear igmp statistics
IGMP statistics cleared.
Console> (enable)
```

Related Commands [set igmp](#)
[show igmp statistics](#)

clear ip alias

To clear IP aliases that were set using the **set ip alias** command, use the **clear ip alias** command.

```
clear ip alias {name | all}
```

Syntax Description	
	<i>name</i> IP address alias to delete.
	all Specifies that all previously set IP address aliases be deleted.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to delete a previously defined IP alias named babar:

```
Console> (enable) clear ip alias babar
IP alias deleted.
Console> (enable)
```

Related Commands [set ip alias](#)
[show ip alias](#)

clear ip dns domain

To clear the default DNS domain name, use the **clear ip dns domain** command.

clear ip dns domain

Syntax Description This command has no arguments or keywords.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear the default DNS domain name:

```
Console> (enable) clear ip dns domain
Default DNS domain name cleared.
Console> (enable)
```

Related Commands [set ip dns domain](#)
[show ip dns](#)

clear ip dns server

To remove a DNS server from the DNS server listing, use the **clear ip dns server** command.

```
clear ip dns server {ip_addr | all}
```

Syntax Description	
<i>ip_addr</i>	IP address of the DNS server you want to remove. An IP alias or a host name that can be resolved through DNS can also be used.
all	Specifies all the IP addresses in the DNS server listing to be removed.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to remove the DNS server at IP address 198.92.30.32 from the DNS server listing:

```
Console> (enable) clear ip dns server 198.92.30.32
198.92.30.32 cleared from DNS table.
Console> (enable)
```

This example shows how to remove all DNS servers from the DNS server listing:

```
Console> (enable) clear ip dns server all
All DNS servers cleared
Console> (enable)
```

Related Commands [set ip dns server](#)
[show ip dns](#)

clear ip permit

To remove a specified IP address and mask or all IP addresses and masks from the permit list, use the **clear ip permit** command.

clear ip permit all

clear ip permit {*ip_addr*} [*mask*] [**telnet** | **ssh** | **snmp** | **all**]

Syntax Description	
<i>ip_addr</i>	IP address to be cleared. An IP alias or a host name that can be resolved through DNS can also be used.
<i>mask</i>	(Optional) Subnet mask of the specified IP address.
telnet	(Optional) Clears the entries in the Telnet permit list.
ssh	(Optional) Clears the entries in the SSH permit list.
snmp	(Optional) Clears the entries in the SNMP permit list.
all	(Optional) Clears all permit lists.

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

The **clear ip permit all** command clears the permit list but does not change the state of the IP permit feature. A warning is displayed if all IP addresses are cleared from the permit list, and the feature is enabled. If a mask other than the default (255.255.255.255) has been configured, you must provide both the address and mask to clear a specific entry.

If the **telnet**, **ssh**, **snmp**, or **all** keyword is not specified, the IP address is removed from both the SNMP and Telnet permit lists.

Examples

These examples show how to remove IP addresses:

```
Console> (enable) clear ip permit 172.100.101.102
172.100.101.102 cleared from IP permit list.
Console> (enable)
```

```
Console> (enable) clear ip permit 172.160.161.0 255.255.192.0 snmp
172.160.128.0 with mask 255.255.192.0 cleared from snmp permit list.
Console> (enable)
```

```
Console> (enable) clear ip permit 172.100.101.102 telnet
172.100.101.102 cleared from telnet permit list.
Console> (enable)
```

clear ip permit

```
Console> (enable) clear ip permit all
IP permit list cleared.
WARNING
IP permit list is still enabled.
Console> (enable)
```

Related Commands

[set ip permit](#)
[show ip permit](#)

clear ip route

To delete IP routing table entries, use the **clear ip route** command.

clear ip route *destination gateway*

Syntax Description

destination IP address of the host or network. An IP alias or a host name that can be resolved through DNS can also be used.

gateway IP address or alias of the gateway router.

Defaults

The default is *destination*. If the destination is not the active default gateway, the actual destination is the default.

Command Types

Switch command.

Command Modes

Privileged.

Examples

This example shows how to delete the routing table entries using the **clear ip route** command:

```
Console> (enable) clear ip route 134.12.3.0 elvis  
Route deleted.  
Console> (enable)
```

Related Commands

[set ip route](#)
[show ip route](#)

clear kerberos clients mandatory

To disable mandatory Kerberos authentication for services on the network, use the **clear kerberos clients mandatory** command.

clear kerberos clients mandatory

Syntax Description This command has no arguments or keywords.

Defaults Kerberos clients are not set to mandatory.

Command Types Switch command.

Command Modes Privileged.

Usage Guidelines If you do not make Kerberos authentication mandatory and Kerberos authentication fails, the application attempts to authenticate users using the default method of authentication for that network service. For example, Telnet prompts for a password.

Examples This example shows how to clear mandatory Kerberos authentication:

```
Console> (enable) clear kerberos clients mandatory
Kerberos clients mandatory cleared
Console> (enable)
```

Related Commands [set kerberos clients mandatory](#)
[show kerberos](#)

clear kerberos credentials forward

To disable credentials forwarding, use the **clear kerberos credentials forward** command.

clear kerberos credentials forward

Syntax Description This command has no arguments or keywords.

Defaults The default is forwarding is disabled.

Command Types Switch command.

Command Modes Privileged.

Usage Guidelines If you have a ticket granting ticket (TGT) and are authenticated to a Kerberized switch, you can use the TGT to authenticate to a host on the network. If forwarding is not enabled and you try to list credentials after authenticating to a host, the output will show no Kerberos credentials are present.

Examples This example shows how to disable Kerberos credentials forwarding:

```
Console> (enable) clear kerberos credentials forward
Kerberos credentials forwarding disabled
Console> (enable)
```

Related Commands [set kerberos clients mandatory](#)
[set kerberos credentials forward](#)
[show kerberos](#)

clear kerberos creds

To delete all the Kerberos credentials, use the **clear kerberos creds** command.

clear kerberos creds

Syntax Description This command has no arguments or keywords.

Defaults The command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Usage Guidelines If you have a TGT and are authenticated to a Kerberized switch, you can use the TGT to authenticate to a host on the network.

Examples This example shows how to delete all Kerberos credentials:

```
Console> (enable) clear kerberos creds
Console> (enable)
```

Related Commands [set kerberos credentials forward](#)
[show kerberos](#)

clear kerberos realm

To clear an entry that maps the name of a Kerberos realm to a DNS domain name or a host name, use the **clear kerberos realm** command.

```
clear kerberos realm {dns_domain | host} kerberos_realm
```

Syntax Description

<i>dns_domain</i>	DNS domain name to map to a Kerberos realm.
<i>host</i>	IP address or name to map to a Kerberos realm.
<i>kerberos_realm</i>	IP address or name of a Kerberos realm.

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

You can map the name of a Kerberos realm to a DNS domain name or a host name with the [set kerberos realm](#) command.

Examples

This example shows how to clear an entry mapping a Kerberos realm to a domain name:

```
Console> (enable) clear kerberos realm CISCO CISCO.COM  
Kerberos DnsDomain-Realm entry CISCO - CISCO.COM deleted  
Console> (enable)
```

Related Commands

[set kerberos local-realm](#)
[set kerberos realm](#)
[show kerberos](#)

clear kerberos server

To clear a specified Key Distribution Center (KDC) entry, use the **clear kerberos server** command.

```
clear kerberos server kerberos_realm {hostname | ip_address} [port_number]
```

Syntax Description	
<i>kerberos_realm</i>	Name of a Kerberos realm.
<i>hostname</i>	Name of the host running the KDC.
<i>ip_address</i>	IP address of the host running the KDC.
<i>port_number</i>	(Optional) Number of the port on the module.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Usage Guidelines You can specify to the switch which KDC to use in a Kerberos realm. This command clears a server entry from the table.

Examples This example shows how to clear a KDC server entered on the switch:

```
Console> (enable) clear kerberos server CISCO.COM 187.0.2.1 750
Kerberos Realm-Server-Port entry CISCO.COM-187.0.2.1-750 deleted
Console> (enable)
```

Related Commands [set kerberos server](#)
[show kerberos](#)

clear key config-key

To remove a private 3DES key, use the **clear key config-key** command.

clear key config-key *string*

Syntax Description	<i>string</i> Name of the 3DES key; the name should be no longer than 8 bytes.
---------------------------	--

Defaults	This command has no default settings.
-----------------	---------------------------------------

Command Types	Switch command.
----------------------	-----------------

Command Modes	Privileged.
----------------------	-------------

Examples	This example shows how to remove a private 3DES key: <pre>Console> (enable) clear key config-key abcd Kerberos config key deleted Console> (enable)</pre>
-----------------	---

Related Commands	set key config-key
-------------------------	------------------------------------

clear l2protocol-tunnel cos

To clear the Layer 2 protocol tunneling CoS value for all ingress tunneling ports, use the **clear l2protocol-tunnel cos** command.

clear l2protocol-tunnel cos

Syntax Description This command has no arguments or keywords.

Defaults The CoS value is restored to 5.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear the Layer 2 protocol tunneling CoS value:

```
Console> (enable) clear l2protocol-tunnel cos
Default Cos set to 5.
Console> (enable)
```

Related Commands

- [clear l2protocol-tunnel statistics](#)
- [set l2protocol-tunnel cos](#)
- [set port l2protocol-tunnel](#)
- [show l2protocol-tunnel statistics](#)
- [show port l2protocol-tunnel](#)

clear l2protocol-tunnel statistics

To clear Layer 2 protocol tunneling statistics on a port or on all tunneling ports, use the **clear l2protocol-tunnel statistics** command.

```
clear l2protocol-tunnel statistics [mod/port]
```

Syntax Description	<i>mod/port</i> (Optional) Number of the module and port on the module. See the “Usage Guidelines” section for more information.
Defaults	This command has no default settings.
Command Types	Switch command.
Command Modes	Privileged.
Usage Guidelines	If you do not specify a module and port number, the Layer 2 protocol tunneling statistics for all tunneling ports and all VLANs are cleared.
Examples	This example shows how to clear the Layer 2 protocol tunneling statistics for a single port: <pre>Console> (enable) clear l2protocol-tunnel statistics 7/1 Layer 2 Protocol Tunneling statistics cleared on port 7/1. Console> (enable)</pre>
Related Commands	clear l2protocol-tunnel cos set l2protocol-tunnel cos set port l2protocol-tunnel show l2protocol-tunnel statistics show port l2protocol-tunnel

clear lacp-channel statistics

To clear Link Aggregation Control Protocol (LACP) statistical information, use the **clear lacp-channel statistics** command.

clear lacp-channel statistics

Syntax Description This command has no keywords or arguments.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Normal.

Usage Guidelines For differences between PAgP and LACP, refer to the “Guidelines for Port Configuration” section of the “Configuring EtherChannel” chapter of the *Catalyst 6500 Series Switch Software Configuration Guide*.

Examples This example shows how to clear LACP statistical information:

```
Console> (enable) clear lacp-channel statistics  
LACP channel counters are cleared.  
Console> (enable)
```

Related Commands

- [set channelprotocol](#)
- [set lacp-channel system-priority](#)
- [set port lacp-channel](#)
- [set spantree channelcost](#)
- [set spantree channelvlancost](#)
- [show lacp-channel](#)
- [show port lacp-channel](#)

clear lda

To remove the accelerated server load balancing (ASLB) MLS entries or MAC addresses from the switch, use the **clear lda** command.

clear lda mls

```
clear lda mls [destination ip_addr_spec] [source ip_addr_spec] [protocol protocol
src-port src_port dst-port dst_port]
```

```
clear lda vip {all | vip | vip tcp_port}
```

```
clear lda mac {all | router_mac_address}
```

Syntax Description	
mls	Removes an LDA MLS entry.
destination <i>ip_addr_spec</i>	(Optional) Full destination IP address or a subnet address in these formats: <i>ip_addr</i> , <i>ip_addr/netmask</i> , or <i>ip_addr/maskbit</i> .
source <i>ip_addr_spec</i>	(Optional) Full source IP address or a subnet address in these formats: <i>ip_addr</i> , <i>ip_addr/netmask</i> , or <i>ip_addr/maskbit</i> .
protocol <i>protocol</i>	(Optional) Specifies additional flow information (protocol family and protocol port pair) to be matched; valid values include tcp , udp , icmp , or a decimal number for other protocol families.
src-port <i>src_port</i>	(Optional) Specifies the number of the TCP/UDP source port (decimal). Used with dst-port to specify the port pair if the protocol is tcp or udp . 0 indicates “do not care.”
dst-port <i>dst_port</i>	(Optional) Specifies the number of the TCP/UDP destination port (decimal). Used with src-port to specify the port pair if the protocol is tcp or udp . 0 indicates “do not care.”
vip all	Removes all VIP couples (set using the set lda command).
vip vip	Specifies a VIP.
vip vip <i>tcp_port</i>	Specifies a VIP and port couple.
mac all	Clears all ASLB router MAC addresses.
mac <i>router_mac_address</i>	Clears a specific router MAC address.

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

This command is supported only on switches configured with the Supervisor Engine 1 with Layer 3 Switching Engine WS-F6K-PFC (Policy Feature Card).

Entering the **destination** keyword specifies the entries matching the destination IP address specification, entering the **source** keyword specifies the entries matching the source IP address specification, and entering an *ip_addr_spec* can specify a full IP address or a subnet address. If you do not specify a keyword, it is treated as a wildcard, and all entries are displayed.

When entering the *ip_addr_spec*, use the full IP address or a subnet address in one of the following formats: *ip_addr*, *ip_addr/netmask*, or *ip_addr/maskbit*.

If you do not enter any keywords, the LD is removed from the switch and the LD configuration is removed from NVRAM.

If you do not enter any keywords with the **clear lda mls** command, all ASLB MLS entries are cleared.

Examples

This example shows how to clear the ASLB MLS entry at a specific destination address:

```
Console> (enable) clear lda mls destination 172.20.26.22
MLS IP entry cleared.
Console> (enable)
```

This example shows how to delete a VIP and port pair (VIP 10.0.0.8, port 8):

```
Console> (enable) clear lda vip 10.0.0.8 8
Successfully deleted vip/port pairs.
Console> (enable)
```

This example shows how to clear all ASLB router MAC addresses:

```
Console> (enable) clear lda mac all
Successfully cleared Router MAC address.
Console> (enable)
```

This example shows how to clear a specific ASLB router MAC address:

```
Console> (enable) clear lda mac 1-2-3-4-5-6
Successfully cleared Router MAC address.
Console> (enable)
```

Related Commands

[commit lda](#)
[set lda](#)
[show lda](#)

clear localuser

To delete a local user account from the switch, use the **clear localuser** command.

clear localuser *name*

Syntax Description

<i>name</i>	Specifies the local user account.
-------------	-----------------------------------

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Examples

This example shows how to delete a local user account:

```
Console> (enable) clear localuser troy  
Local user cleared.  
Console> (enable)
```

Related Commands

[set localuser](#)
[show localuser](#)

clear log

To delete module, system error log, or dump log entries, use the **clear log** command.

clear log [*mod*]

clear log dump

Syntax Description	
<i>mod</i>	(Optional) Module number.
dump	Clears dump log entries.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Usage Guidelines If you do not specify a module number, the system error log for the entire system is erased.

Examples This example shows how to clear the system error log:

```
Console> (enable) clear log
System error log cleared.
Console> (enable)
```

This example shows how to clear the dump log:

```
Console> (enable) clear log dump
Console> (enable)
```

Related Commands [show log](#)

clear log command

To clear the command log entry table, use the **clear log command** command.

clear log command [*mod*]

Syntax Description

mod (Optional) Number of the module.

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

The command log entry table is a history log of the commands sent to the switch from the console or Telnet.

Examples

This example shows how to clear the command log table for the switch:

```
Console> (enable) clear log command  
Local-log cleared  
Console> (enable)
```

This example shows how to clear the command log table for a specific module:

```
Console> (enable) clear log command 3  
Module 3 log cleared.  
Console> (enable)
```

Related Commands

[show log command](#)

clear logging buffer

To clear the system logging buffer, use the **clear logging buffer** command.

clear logging buffer

Syntax Description This command has no arguments or keywords.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to clear the system logging buffer:

```
Console> (enable) clear logging buffer
System logging buffer cleared.
Console> (enable)
```

Related Commands [show logging buffer](#)

clear logging level

To reset the logging level for a facility or for all facilities to their default settings, use the **clear logging level** command.

```
clear logging level {facility | all}
```

Syntax Description

<i>facility</i>	Name of the facility to reset; facility types are listed in Table 2-1 .
all	Resets all facilities.

Table 2-1 Facility Types

Facility Name	Definition
all	All facilities
acl	access control list
cdp	Cisco Discovery Protocol
cops	Common Open Policy Service Protocol
dtp	Dynamic Trunking Protocol
dvlan	Dynamic VLAN
earl	Enhanced Address Recognition Logic
fileSYS	file system facility
gvrp	GARP VLAN Registration Protocol
ip	Internet Protocol
kernel	Kernel
ld	ASLB facility
mcast	Multicast
mgmt	Management
mls	Multilayer Switching
pagp	Port Aggregation Protocol
protfilt	Protocol Filter
pruning	VTP pruning
privatevlan	Private VLAN facility
qos	Quality of Service
radius	Remote Access Dial-In User Service
rsvp	ReSerVation Protocol
security	Security
snmp	Simple Network Management Protocol

Table 2-1 Facility Types (continued)

Facility Name	Definition
spantree	Spanning Tree Protocol
sys	System
tac	Terminal Access Controller
tcp	Transmission Control Protocol
telnet	Terminal Emulation Protocol
tftp	Trivial File Transfer Protocol
udld	User Datagram Protocol
vmpls	VLAN Membership Policy Server
vtp	Virtual Terminal Protocol

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Examples

This example shows how to reset a specific facility back to its default settings:

```
Console> (enable) clear logging level dtp
Current session and default severities of facility <dtp> set to factory default values.
Console> (enable)
```

This example shows how to reset all facilities back to their default settings:

```
Console> (enable) clear logging level all
Current session and default severities of all facilities set to factory default values.
Console> (enable)
```

Related Commands

[set logging level](#)
[show logging](#)

clear logging server

To delete a syslog server from the system log server table, use the **clear logging server** command.

```
clear logging server ip_addr
```

Syntax Description	<i>ip_addr</i> IP address of the syslog server to be deleted.
---------------------------	---

Defaults	This command has no default settings.
-----------------	---------------------------------------

Command Types	Switch command.
----------------------	-----------------

Command Modes	Privileged.
----------------------	-------------

Examples	This example shows how to delete a syslog server from the configuration: <pre>Console> (enable) clear logging server 171.69.192.207 System log server 171.69.192.207 removed from system log server table. Console> (enable)</pre>
-----------------	--

Related Commands	set logging server show logging
-------------------------	--

clear mls cef

To clear CEF summary statistics, use the **clear mls cef** command.

clear mls cef

Syntax Description This command has no arguments or keywords.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Usage Guidelines This command is supported on Catalyst 6500 series switches configured with the Supervisor Engine 2 with Layer 3 Switching Engine II (PFC2) only.

Examples This example shows how to clear CEF summary information:

```
Console> (enable) clear mls cef
CEF statistics cleared.
Console> (enable)
```

Related Commands [show mls cef summary](#)

clear mls entry

To clear MLS entries in the Catalyst 6500 series switches, use the **clear mls entry** command.

```
clear mls entry [ip | ipx] all
```

```
clear mls entry ip destination ip_addr_spec [source ip_addr_spec] [protocol protocol]
[src-port src_port] [dst-port dst_port]
```

```
clear mls entry ipx destination ipx_addr_spec
```

Syntax Description	
ip	(Optional) Specifies IP MLS.
ipx	(Optional) Specifies IPX MLS.
all	Clears all MLS entries.
destination	Specifies the destination IP address.
<i>ip_addr_spec</i>	Full IP address or a subnet address in these formats: <i>ip_addr</i> , <i>ip_addr/netmask</i> , or <i>ip_addr/maskbit</i> .
source <i>ip_addr_spec</i>	(Optional) Specifies the source IP address.
protocol <i>protocol</i>	(Optional) Specifies additional flow information (protocol family and protocol port pair) to be matched; valid values are 0 to 255 or ip , ipinip , icmp , igmp , tcp , and udp .
src-port <i>src_port</i>	(Optional) Specifies the source port IP address; valid values are 1 to 65535, dns , ftp , smtp , telnet , x (X-Windows), www .
dst-port <i>dst_port</i>	(Optional) Specifies the destination port IP address; valid values are 1 to 65535, dns , ftp , smtp , telnet , x (X-Windows), www .
<i>ipx_addr_spec</i>	Full IPX address or a subnet address in these formats: <i>src_net[mask]</i> , <i>dest_net.dest_node</i> , or <i>dest_net/mask</i> .

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

This command is not supported on systems configured with the Supervisor Engine 2 with Layer 3 Switching Engine II (PFC2). To clear entries on systems configured with the Supervisor Engine 2 with Layer 3 Switching Engine II (PFC2), you must enter the **clear mls entry cef adjacency** command.

When entering the IPX address syntax, use the following format:

- IPX net address—1..FFFFFFE
- IPX node address—x.x.x where x is 0..FFFF
- IPX address—ipx_net.ipx_node (for example 3.0034.1245.AB45, A43.0000.0000.0001)

Up to 16 routers can be included explicitly as MLS-RPs.

To use a router as an MLS, you must meet these conditions:

- The router must be included (either explicitly or automatically) in the MLS-SE.
- The MLS feature must be enabled in the Catalyst 6500 series switches.
- The Catalyst 6500 series switches must know the router's MAC-VLAN pairs.

Use the following syntax to specify an IP subnet address:

- *ip_subnet_addr*—This is the short subnet address format. The trailing decimal number 00 in an IP address YY.YY.YY.00 specifies the boundary for an IP subnet address. For example, 172.22.36.00 indicates a 24-bit subnet address (subnet mask 172.22.36.00/255.255.255.0), and 173.24.00.00 indicates a 16-bit subnet address (subnet mask 173.24.00.00/255.255.0.0). However, this format can identify only a subnet address of 8, 16, or 24 bits.
- *ip_addr/subnet_mask*—This is the long subnet address format. For example, 172.22.252.00/255.255.252.00 indicates a 22-bit subnet address. This format can specify a subnet address of any bit number. To provide more flexibility, the *ip_addr* is a full host address, such as 172.22.253.1/255.255.252.00.
- *ip_addr/maskbits*—This is the simplified long subnet address format. The mask bits specify the number of bits of the network masks. For example, 172.22.252.00/22 indicates a 22-bit subnet address. The *ip_addr* is a full host address, such as 193.22.253.1/22, which has the same subnet address as the *ip_subnet_addr*.

If you do not use the **all** argument in the **clear mls entry** command, you must specify at least one of the other three keywords (**source**, **destination**, or **protocol**) and its arguments.

If no value or 0 is entered for *src_port* and *dest_port*, all entries are cleared.

When you remove a Multilayer Switch Module (MSM) from the Catalyst 6500 series switch, it is removed immediately from the inclusion list and all the MLS entries for the MSM are removed.

Examples

This example shows how to clear the MLS entries with destination IP address 172.20.26.22:

```
Console> (enable) clear mls entry destination 172.20.26.22
Multilayer switching entry cleared.
Console> (enable)
```

This example shows how to clear specific IP MLS entries for destination IP address 172.20.26.22:

```
Console> (enable) clear mls entry ip destination 172.20.26.22 source 172.20.22.113 protocol tcp 520 320
Multilayer switching entry cleared
Console> (enable)
```

This example shows how to clear specific IPX MLS entries for a destination IPX address:

```
Console> (enable) clear mls entry ipx destination 1.00e0.fefc.6000 source 3.0034.1245.AB45
IPX Multilayer switching entry cleared
Console> (enable)
```

Related Commands

[show mls entry](#)

clear mls entry cef adjacency

To clear CEF adjacency statistics, use the **clear mls entry cef adjacency** command.

clear mls entry cef adjacency

clear mls entry cef ip *[[ip_addr/]mask_len]* **adjacency**

clear mls entry cef ipx *[[ipx_addr/]mask_len]* **adjacency**

Syntax Description

ip	Specifies IP entries.
ipx	Specifies IPX entries.
<i>ip_addr</i>	(Optional) IP address of the entry.
<i>mask_len</i>	(Optional) Mask length associated with the IP or IPX address of the entry; valid values are from 0 to 32.
<i>ipx_addr</i>	(Optional) IPX address of the entry.

Defaults

This command has no default settings.

Command Types

Switch command.

Command Modes

Privileged.

Usage Guidelines

This command is supported on Catalyst 6500 series switches configured with the Supervisor Engine 2 with Layer 3 Switching Engine II (PFC2).

To clear MLS entries on systems configured with the Supervisor Engine 1 with Layer 3 Switching Engine WS-F6K-PFC (Policy Feature Card), enter the **clear mls entry** command.

The *ipx_addr* value is entered as 32-bit hexadecimal digits.

Examples

This example shows how to clear all adjacencies associated with CEF entries:

```
Console> (enable) clear mls cef entry adjacency
Adjacency statistics has been cleared.
Console> (enable)
```

Related Commands

[show mls entry cef](#)

clear mls exclude protocol

To remove a protocol port that has been excluded from shortcutting using the [set mls exclude protocol](#) command, use the **clear mls exclude protocol** command.

```
clear mls exclude protocol tcp | udp | both port
```

Syntax Description		
tcp		Specifies a TCP port.
udp		Specifies a UDP port.
both		Specifies that the port be applied to both TCP and UDP traffic.
<i>port</i>		Number of the port.

Defaults This command has no default settings.

Command Types Switch command.

Command Modes Privileged.

Examples This example shows how to set TCP packets in a protocol port to be hardware switched:

```
Console> (enable) clear mls exclude protocol tcp 25
TCP packets with protocol port 25 will be MLS switched.
Console> (enable)
```

Related Commands [set mls exclude protocol](#)
[show mls exclude protocol](#)