



Cisco Catalyst Blade Switch 3030 Debug Commands

This appendix describes the **debug** privileged EXEC commands that have been created or changed for use with the switch. These commands are helpful in diagnosing and resolving internetworking problems and should be enabled only under the guidance of Cisco technical support staff.



Because debugging output is assigned high priority in the CPU process, it can render the system unusable. For this reason, use the **debug** commands only to troubleshoot specific problems or during troubleshooting sessions with Cisco technical support staff. It is best to use the **debug** commands during periods of lower network traffic and fewer users. Debugging during these periods decreases the likelihood that increased **debug** command processing overhead will affect system use.

debug auto qos

Use the **debug auto qos** privileged EXEC command to enable debugging of the automatic quality of service (auto-QoS) feature. Use the **no** form of this command to disable debugging.

debug auto qos

no debug auto qos

- Syntax Description This command has no keywords or arguments.
- **Defaults** Auto-QoS debugging is disabled.
- Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines To display the QoS configuration that is automatically generated when auto-QoS is enabled, enable debugging *before* you enable auto-QoS. You enable debugging by entering the **debug auto qos** privileged EXEC command.

The undebug auto qos command is the same as the no debug auto qos command.

Examples This example shows how to display the QoS configuration that is automatically generated when auto-QoS is enabled:

Switch# debug auto gos AutoQoS debugging is on Switch# configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)# interface gigabitethernet0/1 Switch(config-if) # auto gos voip cisco-phone 21:29:41: mls qos map cos-dscp 0 8 16 26 32 46 48 56 21:29:41: mls qos 21:29:42: no mls qos srr-queue input cos-map 21:29:42: no mls qos srr-queue output cos-map 21:29:42: mls qos srr-queue input cos-map queue 1 threshold 3 0 21:29:42: mls qos srr-queue input cos-map queue 1 threshold 2 1 21:29:42: mls qos srr-queue input cos-map queue 2 threshold 1 2 21:29:42: mls qos srr-queue input cos-map queue 2 threshold 2 4 6 7 21:29:43: mls qos srr-queue input cos-map queue 2 threshold 3 3 5 21:29:43: mls qos srr-queue output cos-map queue 1 threshold 3 5 21:29:43: mls qos srr-queue output cos-map queue 2 threshold 3 3 6 7 21:29:44: mls qos srr-queue output cos-map queue 3 threshold 3 2 4 21:29:44: mls gos srr-queue output cos-map queue 4 threshold 2 1 21:29:44: mls qos srr-queue output cos-map queue 4 threshold 3 0

```
21:29:44: no mls qos srr-queue input dscp-map
21:29:44: no mls qos srr-queue output dscp-map
21:29:44: mls qos srr-queue input dscp-map queue 1 threshold 2 9 10 11 12 13 14 15
21:29:45: mls gos srr-queue input dscp-map queue 1 threshold 3 0 1 2 3 4 5 6 7
21:29:45: mls gos srr-queue input dscp-map queue 1 threshold 3 32
21:29:45: mls gos srr-queue input dscp-map queue 2 threshold 1 16 17 18 19 20 21 22 23
21:29:45: mls qos srr-queue input dscp-map queue 2 threshold 2 33 34 35 36 37 38 39 48
21:29:46: mls qos srr-queue input dscp-map queue 2 threshold 2 49 50 51 52 53 54 55 56
21:29:46: mls gos srr-queue input dscp-map queue 2 threshold 2 57 58 59 60 61 62 63
21:29:46: mls qos srr-queue input dscp-map queue 2 threshold 3 24 25 26 27 28 29 30 31
21:29:47: mls qos srr-queue input dscp-map queue 2 threshold 3 40 41 42 43 44 45 46 47
21:29:47: mls qos srr-queue output dscp-map queue 1 threshold 3 40 41 42 43 44 45 46 47
21:29:47: mls qos srr-queue output dscp-map queue 2 threshold 3 24 25 26 27 28 29 30 31
21:29:47: mls qos srr-queue output dscp-map queue 2 threshold 3 48 49 50 51 52 53 54 55
21:29:48: mls qos srr-queue output dscp-map queue 2 threshold 3 56 57 58 59 60 61 62 63
21:29:48: mls qos srr-queue output dscp-map queue 3 threshold 3 16 17 18 19 20 21 22 23
21:29:48: mls gos srr-queue output dscp-map queue 3 threshold 3 32 33 34 35 36 37 38 39
21:29:49: mls qos srr-queue output dscp-map queue 4 threshold 1 8
21:29:49: mls qos srr-queue output dscp-map queue 4 threshold 2 9 10 11 12 13 14 15
21:29:49: mls qos srr-queue output dscp-map queue 4 threshold 3 0 1 2 3 4 5 6 7
21:29:49: no mls qos srr-queue input priority-queue 1
21:29:49: no mls gos srr-queue input priority-queue 2
21:29:50: mls gos srr-queue input bandwidth 90 10
21:29:50: no mls qos srr-queue input buffers
21:29:50: mls qos queue-set output 1 buffers 10 10 26 54
21:29:50: interface GigabitEthernet0/1
21:29:50: mls qos trust device cisco-phone
21:29:50: mls gos trust cos
21:29:50: no queue-set 1
21:29:50: srr-queue bandwidth shape 10 0 0 0
21:29:50: srr-queue bandwidth share 10 10 60 20
```

Related Commands	Command	Description
	auto qos voip	Configures auto-QoS for voice over IP (VoIP) within a QoS domain.
	show auto qos	Displays the initial configuration that is generated by the automatic auto-QoS feature
	show debugging	Displays information about the types of debugging that are enabled.

debug backup

Use the **debug backup** privileged EXEC command to enable debugging of the Flex Links backup interface. Use the **no** form of this command to disable debugging.

debug backup {all | errors | events | vlan-load-balancing}

no debug backup {all | errors | events | vlan-load-balancing}

Syntax Description	all	Display all backup interface debug messages.
	errors	Display backup interface error or exception debug messages.
	events	Display backup interface event debug messages.
	vlan-load- balancing	Display backup interface VLAN load balancing.
Command Default	Backup interface de	bugging is disabled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(25)SEE	Modification This command was introduced.
Command History		
Command History Usage Guidelines	12.2(25)SEE 12.2(37)SE	This command was introduced.
	12.2(25)SEE 12.2(37)SE	This command was introduced. Added vlan-load-balancing keyword.

debug dot1x

Use the **debug dot1x** privileged EXEC command to enable debugging of the IEEE 802.1x authentication feature. Use the **no** form of this command to disable debugging.

debug dot1x {all | errors | events | feature | packets | registry | state-machine}

no debug dot1x {all | errors | events | feature | packets | registry | state-machine}

Syntax Description	all	Display all IEEE 802.1x authentication debug messages.
	errors	Display IEEE 802.1x error debug messages.
	events	Display IEEE 802.1x event debug messages.
	feature	Display IEEE 802.1x feature debug messages.
	packets	Display IEEE 802.1x packet debug messages.
	registry	Display IEEE 802.1x registry invocation debug messages.
	state-machine	Display state-machine related-events debug messages.
Note	Though visible in	the command-line help strings, the redundancy keyword is not supported.
Command Default	Debugging is dis	abled.
Command Default Command Modes	Debugging is dis Privileged EXEC	
Command Modes	Privileged EXEC	
Command Modes	Privileged EXEC	Modification
Command Modes Command History	Privileged EXEC Release 12.2(25)SEE	Modification
Command Modes Command History Usage Guidelines	Privileged EXEC Release 12.2(25)SEE	Modification This command was introduced.
Command Modes	Privileged EXEC Release 12.2(25)SEE The undebug do	Modification This command was introduced. t1x command is the same as the no debug dot1x command. Description

debug dtp

Use the **debug dtp** privileged EXEC command to enable debugging of the Dynamic Trunking Protocol (DTP) activity. Use the **no** form of this command to disable debugging.

debug dtp {aggregation | all | decision | events | oserrs | packets | queue | states | timers}

no debug dtp {aggregation | all | decision | events | oserrs | packets | queue | states | timers}

Syntax Description	aggregation	Display DTP user-message aggregation debug messages.
	all	Display all DTP debug messages.
	decision	Display the DTP decision-table debug messages.
	events	Display the DTP event debug messages.
	oserrs	Display DTP operating system-related error debug messages.
	packets	Display DTP packet-processing debug messages.
	queue	Display DTP packet-queueing debug messages.
	states	Display DTP state-transition debug messages.
	timers	Display DTP timer-event debug messages.
Defaults Command Modes	Debugging is disable Privileged EXEC	ed.
Command Modes	Privileged EXEC	
	Privileged EXEC Release	Modification
Command Modes	Privileged EXEC Release 12.2(25)SEE	
Command Modes Command History	Privileged EXEC Release 12.2(25)SEE	Modification This command was introduced.
Command Modes Command History Usage Guidelines	Privileged EXEC Release 12.2(25)SEE The undebug dtp compared	Modification This command was introduced. ommand is the same as the no debug dtp command.

debug eap

Use the **debug eap** privileged EXEC command to enable debugging of the Extensible Authentication Protocol (EAP) activity. Use the **no** form of this command to disable debugging.

 $debug \ dot1x \ \{all \ | \ authenticator \ | \ errors \ | \ events \ | \ md5 \ | \ packets \ | \ peer \ | \ sm \}$

no debug dot1x {all | authenticator | errors | events | md5 | packets | peer | sm}

Syntax Description	all	Display all EAP debug messages.
	authenticator	Display authenticator debug messages.
	errors	Display EAP error debug messages.
	events	Display EAP event debug messages.
	md5	Display EAP-MD5 debug messages.
	packets	Display EAP packet debug messages.
	peer	Display EAP peer debug messages.
	sm	Display EAP state-machine related-events debug messages.
Command Default Command Modes	Debugging is dis Privileged EXE0	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug d o	ot1x command is the same as the no debug dot1x command.
Related Commands	Command	Description
	show debuggin	g Displays information about the types of debugging that are enabled.
	show eap	Displays EAP registration and session information for the switch or for the specified port.

debug etherchannel

Use the **debug etherchannel** privileged EXEC command to enable debugging of the EtherChannel/PAgP shim. This shim is the software module that is the interface between the Port Aggregation Protocol (PAgP) software module and the port manager software module. Use the **no** form of this command to disable debugging.

debug etherchannel [all | detail | error | event | idb]

no debug etherchannel [all | detail | error | event | idb]

Syntax Description	all (Option	al) Display all EtherChannel debug messages.
	detail (Option	al) Display detailed EtherChannel debug messages.
	error (Option	al) Display EtherChannel error debug messages.
	event (Option	al) Debug major EtherChannel event messages.
	idb (Option	al) Display PAgP interface descriptor block debug messages.
Note	Though visible in the	command-line help strings, the linecard keyword is not supported.
efaults	Debugging is disabled	l.
Command Modes	Privileged EXEC	
Command Modes	Privileged EXEC	Modification
		Modification This command was introduced.
ommand History	Release 12.2(25)SEE	This command was introduced.
command History	Release 12.2(25)SEE If you do not specify a	This command was introduced. a keyword, all debug messages appear.
Command History	Release 12.2(25)SEE If you do not specify a	This command was introduced.
Command History Usage Guidelines	Release 12.2(25)SEE If you do not specify a	This command was introduced. a keyword, all debug messages appear.
	Release 12.2(25)SEE If you do not specify a The undebug etherch	This command was introduced. a keyword, all debug messages appear. annel command is the same as the no debug etherchannel command.

debug ip dhcp snooping

Use the **debug ip dhcp snooping** privileged EXEC command to enable debugging of DHCP snooping. Use the **no** form of this command to disable debugging.

debug ip dhcp snooping {*mac-address* | **agent** | **event** | **packet**}

no debug ip dhcp snooping {*mac-address* | **agent** | **event** | **packet**}

This command is available only if your switch is running the IP services image.

Syntax Description	mac-address	Display debug messages for a DHCP packet with the specified MAC address.
	agent	Display debug messages for DHCP snooping agents.
	event	Display debug messages for DHCP snooping events.
	packet	Display debug messages for DHCP snooping.
Defaults	Debugging is d	isabled.
Command Modes	Privileged EXE	EC
Command History	Release	Modification
Command History	Release 12.2(44)SE	Modification This command was introduced.
Command History Usage Guidelines Related Commands	12.2(44)SE	

debug ip verify source packet

Use the **debug ip verify source packet** privileged EXEC command to enable debugging of IP source guard. Use the **no** form of this command to disable debugging.

debug ip verify source packet

no debug ip verify source packet

Syntax Description	This command has no	arguments or keywords.
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- **Defaults** Debugging is disabled.
- **Command Modes** Privileged EXEC

Command History	Release	Modification
	12.2(44)SE	This command was introduced.

Usage Guidelines The **undebug ip verify source packet** command is the same as the **no debug ip verify source packet** command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled. For syntax information, select Cisco IOS Release 12.2 Configuration Guides and Command References > Cisco IOS
		Configuration Fundamentals Configuration Guide, Release 12.2 > System Management > Troubleshooting and Fault Management.

debug interface

Use the **debug interface** privileged EXEC command to enable debugging of interface-related activities. Use the **no** form of this command to disable debugging.

no debug interface {*interface-id* | **null** *interface-number* | **port-channel** *port-channel-number* | **vlan** *vlan-id*}

Syntax Description	interface-id	Display debug messages for the specified physical port, identified by type switch number/module number/ port, for example gigabitethernet 0/2 .
	null interface-number	Display debug messages for null interfaces. The <i>interface-number</i> is always 0 .
	port-channel port-channel-number	Display debug messages for the specified EtherChannel port-channel interface. The <i>port-channel-number</i> range is 1 to 48.
	vlan vlan-id	Display debug messages for the specified VLAN. The <i>vlan-id</i> range is 1 to 4094.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	• • •	ceyword, all debug messages appear. command is the same as the no debug interface command.
	The undebug interface	command is the same as the no debug interface command.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show etherchannel	Displays EtherChannel information for the channel.

debug interface {*interface-id* | **null** *interface-number* | **port-channel** *port-channel-number* | **vlan** *vlan-id*}

debug ip igmp filter

Use the **debug ip igmp filter** privileged EXEC command to enable debugging of Internet Group Management Protocol (IGMP) filter events. Use the **no** form of this command to disable debugging.

debug ip igmp filter

no debug ip igmp filter

Syntax Description	This command has no arguments or keywords.
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- **Defaults** Debugging is disabled.
- **Command Modes** Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The **undebug ip igmp filter** command is the same as the **no debug ip igmp filter** command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug ip igmp max-groups

Use the **debug ip igmp max-groups** privileged EXEC command to enable debugging of Internet Group Management Protocol (IGMP) maximum groups events. Use the **no** form of this command to disable debugging.

debug ip igmp max-groups

no debug ip igmp max-groups

Syntax Description This command has no arguments or keywords.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The undebug ip igmp max-groups command is the same as the no debug ip igmp max-groups command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug ip igmp snooping

Use the **debug igmp snooping** privileged EXEC command to enable debugging of Internet Group Management Protocol (IGMP) snooping activity. Use the **no** form of this command to disable debugging.

debug ip igmp snooping [group | management | querier | router | timer]

no debug ip igmp snooping [group | management | querier | router | timer]

Syntax Description	group	(Optional) Display IGMP snooping group activity debug messages.
	management	(Optional) Display IGMP snooping management activity debug messages.
	querier	(Optional) Display IGMP snooping querier debug messages.
	router	(Optional) Display IGMP snooping router activity debug messages.
	timer	(Optional) Display IGMP snooping timer event debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(25)SEE	Modification This command was introduced.
Command History Usage Guidelines	12.2(25)SEE	This command was introduced.
	12.2(25)SEE	
Usage Guidelines	The undebug ip igmp	This command was introduced. snooping command is the same as the no debug ip igmp snooping command.

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debug lacp

Use the debug lacp privileged EXEC command to enable debugging of Link Aggregation Control Protocol (LACP) activity. Use the **no** form of this command to disable debugging.

debug lacp [all | event | fsm | misc | packet]

no debug lacp [all | event | fsm | misc | packet]

ated Commands	Command show debugging	Description Displays information about the types of debugging that are enabled.
age Guidelines	The undebug lacp	command is the same as the no debug lacp command.
	12.2(25)SEE	This command was introduced.
mmand History	Release	Modification
mmand Modes	Privileged EXEC	
faults	Debugging is disab	led.
	packet (Optional) Display LACP packet debug messages.
	misc (Optional) Display miscellaneous LACP debug messages.
	fsm (Optional) Display LACP finite state-machine debug messages.
ntax Description		Optional) Display LACP event debug messages.
	all (Optional) Display all LACP debug messages.

debug mac-notification

Use the **debug mac-notification** privileged EXEC command to enable debugging of MAC notification events. Use the **no** form of this command to disable debugging.

debug mac-notification

no debug mac-notification

- **Defaults** Debugging is disabled.
- **Command Modes** Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The **undebug mac-notification** command is the same as the **no debug mac-notification** command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show mac address-table notification	Displays the MAC address notification information for all interfaces or the specified interface.

debug matm

Use the **debug matm** privileged EXEC command to enable debugging of platform-independent MAC address management. Use the **no** form of this command to disable debugging.

debug matm

no debug matm

- **Defaults** Debugging is disabled.
- **Command Modes** Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The **undebug matm** command is the same as the **no debug matm** command.

Related Commands	Command	Description
	debug platform matm	Displays information about platform-dependent MAC address management.
	show debugging	Displays information about the types of debugging that are enabled.

debug matm move update

Use the **debug matm move update** privileged EXEC command to enable debugging of MAC address-table move update message processing.

debug matm move update

no debug matm move update

Syntax Description	This command has no	arguments or keywords.
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- **Defaults** Debugging is disabled.
- Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The **undebug matm move update** command is the same as the **no debug matm move update** command.

elated Commands	Command	Description
	mac address-table move update {receive transmit}	Configures MAC address-table move update feature on the switch.
	show debugging	Displays information about the types of debugging that are enabled.
	show mac address-table move update	Displays the MAC address-table move update information on the switch.

debug monitor

Use the **debug monitor** privileged EXEC command to enable debugging of the Switched Port Analyzer (SPAN) feature. Use the **no** form of this command to disable debugging.

debug monitor {all | errors | idb-update | info | list | notifications | platform | requests | snmp}

no debug monitor {all | errors | idb-update | info | list | notifications | platform | requests | snmp}

Syntax Description	all	Display all SPAN debug messages.
	errors	Display detailed SPAN error debug messages.
	idb-update	Display SPAN interface description block (IDB) update-trace debug messages
	info	Display SPAN informational-tracing debug messages.
	list	Display SPAN port and VLAN-list tracing debug messages.
	notifications	Display SPAN notification debug messages.
	platform	Display SPAN platform-tracing debug messages.
	requests	Display SPAN request debug messages.
	snmp	Display SPAN and Simple Network Management Protocol (SNMP) tracing debug messages.
Defaults	Debugging is disable	ed.
Command Modes	Privileged EXEC	
Command Modes	Privileged EXEC	Modification
Defaults Command Modes Command History Usage Guidelines	Privileged EXEC Release 12.2(25)SEE	
Command Modes Command History Usage Guidelines	Privileged EXEC Release 12.2(25)SEE	Modification This command was introduced.
Command Modes Command History	Privileged EXEC Release 12.2(25)SEE	Modification This command was introduced. cor cor </td

debug mvrdbg

Use the **debug mvrdbg** privileged EXEC command to enable debugging of Multicast VLAN Registration (MVR). Use the **no** form of this command to disable debugging.

debug mvrdbg {all | events | igmpsn | management | ports}

no debug mvrdbg {all | events | igmpsn | management | ports}

Syntax Description	all	Display all MVR activity debug messages.
	events	Display MVR event-handling debug messages.
	igmpsn	Display MVR Internet Group Management Protocol (IGMP) snooping-activity debug messages.
	management	Display MVR management-activity debug messages.
	ports	Display MVR port debug messages.
Defaults	Debugging is disabl	ed.
Command Modes	Privileged EXEC	
	6	
Command History	Release	Modification
Command History		Modification This command was introduced.
Command History Usage Guidelines	Release 12.2(25)SEE	
Usage Guidelines	Release 12.2(25)SEE The undebug mvrd Command	This command was introduced. bg command is the same as the no debug mvrdbg command. Description
	Release 12.2(25)SEE The undebug mvrd	This command was introduced. bg command is the same as the no debug mvrdbg command.

debug nvram

Use the **debug nvram** privileged EXEC command to enable debugging of NVRAM activity. Use the **no** form of this command to disable debugging.

debug nvram

no debug nvram

Syntax Description	This command has no	arguments or keywords.
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- **Defaults** Debugging is disabled.
- **Command Modes** Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The **undebug nvram** command is the same as the **no debug nvram** command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug pagp

Use the **debug pagp** privileged EXEC command to enable debugging of Port Aggregation Protocol (PAgP) activity. Use the **no** form of this command to disable debugging.

debug pagp [all | dual-active | event | fsm | misc | packet]

no debug pagp [all | dual-active | event | fsm | misc | packet]

Syntax Description	all	(Optional) Display all PAgP debug messages.
	dual-active	(Optional) Dispaly dual-active detection messages.
	event	(Optional) Display PAgP event debug messages.
	fsm	(Optional) Display PAgP finite state-machine debug messages.
	misc	(Optional) Display miscellaneous PAgP debug messages.
	packet	(Optional) Display PAgP packet debug messages.
Defaults	Debugging is disa	bled.
Command Modes	Privileged EXEC	
	Privileged EXEC	Modification
		Modification This command was introduced.
Command Modes Command History	Release	
	Release 12.2(25)SEE 12.2(46)SE	This command was introduced.
Command History	Release 12.2(25)SEE 12.2(46)SE	This command was introduced. The dual-active keyword was added.
Command History Usage Guidelines	Release 12.2(25)SEE 12.2(46)SE The undebug page	This command was introduced. The dual-active keyword was added. gp command is the same as the no debug pagp command. Description

debug platform acl

Use the **debug platform acl** privileged EXEC command to enable debugging of the access control list (ACL) manager. Use the **no** form of this command to disable debugging.

debug platform acl {all | exit | label | main | racl | vacl | vlmap | warn}

no debug platform acl {all | exit | label | main | racl | vacl | vlmap | warn}

Syntax Description		isplay all ACL manager debug messages.
		isplay ACL exit-related debug messages.
		isplay ACL label-related debug messages.
	main D	isplay the main or important ACL debug messages.
	racl D	isplay router ACL related debug messages.
	vacl D	isplay VLAN ACL-related debug messages.
	vlmap D	isplay ACL VLAN-map-related debug messages.
	warn D	isplay ACL warning-related debug messages.
<u> </u>	Though visible i	n the command-line help strings, the stack keyword is not supported.
	Debugging is dis	sabled.
Command Modes	Debugging is dis Privileged EXEC	sabled.
Command Modes	Debugging is dis Privileged EXEC Release	sabled.
command Modes	Debugging is dis Privileged EXEC	modification This command was introduced.
Command Modes	Debugging is dis Privileged EXEC Release 12.2(25)SEE	sabled.
Defaults Command Modes Command History Usage Guidelines	Debugging is dis Privileged EXEC Release 12.2(25)SEE 12.2(44)SE	modification This command was introduced.
Command Modes Command History	Debugging is dis Privileged EXEC Release 12.2(25)SEE 12.2(44)SE	Modification This command was introduced. The racl keyword was added.
Command Modes Command History	Debugging is dis Privileged EXEC Release 12.2(25)SEE 12.2(44)SE	Modification This command was introduced. The racl keyword was added.

debug platform backup interface

Use the **debug platform backup interface** privileged EXEC command to enable debugging of the Flex Links platform backup interface. Use the **no** form of this command to disable debugging.

debug platform backup interface

no debug platform backup interface

Syntax Description	This command has no arguments or keywords.
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- **Command Default** Platform backup interface debugging is disabled.
- Command Modes Privileged EXEC

 Release
 Modification

 12.2(25)SEE
 This command was introduced.

Usage Guidelines The undebug platform backup interface command is the same as the no platform debug backup interface command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform cli-redirection main

Use the **debug platform cli-redirection main** privileged EXEC command to enable debugging of the main (important) command-line interface (CLI) redirection events. Use the **no** form of this command to disable debugging.

debug platform cli-redirection main

no debug platform cli-redirection main

- **Syntax Description** This command has no arguments or keywords.
- **Defaults** Debugging is disabled.
- **Command Modes** Privileged EXEC

Command History	Release	Modification
	12.2(44)SE	This command was introduced.

Usage Guidelines The undebug platform cli-redirection main command is the same as the no debug platform cli-redirection main command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled. For
		syntax information, select Cisco IOS Release 12.2 Configuration Guides
		and Command References > Cisco IOS Configuration Fundamentals
		Configuration Guide, Release 12.2 > System Management >
		Troubleshooting and Fault Management.

debug platform cpu-queues

Use the **debug platform cpu-queues** privileged EXEC command to enable debugging of platform central processing unit (CPU) receive queues. Use the **no** form of this command to disable debugging.

debug platform cpu-queues {broadcast-q | cbt-to-spt-q | cpuhub-q | host-q | icmp-q | igmp-snooping-q | layer2-protocol-q | logging-q | remote-console-q | routing-protocol-q | rpffail-q | software-fwd-q | stp-q }

no debug platform cpu-queues {broadcast-q | cbt-to-spt-q | cpuhub-q | host-q | icmp-q | igmp-snooping-q | layer2-protocol-q | logging-q | remote-console-q | routing-protocol-q | rpffail-q | software-fwd-q | stp-q}

Syntax Description	broadcast-q	Display debug messages about packets received by the broadcast queue.
	cbt-to-spt-q	Display debug messages about packets received by the core-based tree to shortest-path tree (cbt-to-spt) queue.
	cpuhub-q	Display debug messages about packets received by the CPU heartbeat queue.
	host-q	Display debug messages about packets received by the host queue.
	icmp-q	Display debug messages about packets received by the Internet Control Message Protocol (ICMP) queue.
	igmp-snooping-q	Display debug messages about packets received by the Internet Group Management Protocol (IGMP)-snooping queue.
	layer2-protocol-q	Display debug messages about packets received by the Layer 2 protocol queue.
	logging-q	Display debug messages about packets received by the logging queue.
	remote-console-q	Display debug messages about packets received by the remote console queue.
	routing-protocol-q	Display debug messages about packets received by the routing protocol queue.
	rpffail-q	Display debug messages about packets received by the reverse path forwarding (RFP) failure queue.
	software-fwd-q	Debug packets received by the software forwarding queue.
	stp-q	Debug packets received by the Spanning Tree Protocol (STP) queue.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History

 History
 Release
 Modification

 12.2(25)SEE
 This command was introduced.

 12.2(44)SE
 The routing-protocol-q and rpffail-q keywords were added.

Usage Guidelines The undebug platform cpu-queues command is the same as the no debug platform cpu-queues command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform dot1x

Use the **debug platform dot1x** privileged EXEC command to enable debugging of IEEE 802.1x events. Use the **no** form of this command to disable debugging.

debug platform dot1x {initialization | interface-configuration | rpc}

no debug platform dot1x {initialization | interface-configuration | rpc}

Syntax Description	initialization	Display IEEE 802.1x-authentication initialization sequence debug messages.
	interface-configuration	Display IEEE 802.1x interface configuration-related debug messages.
	грс	Display IEEE 802.1x remote procedure call (RPC) request debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug platform o	lot1x command is the same as the no debug platform dot1x command.
Usage Guidelines Related Commands	The undebug platform of the un	lot1x command is the same as the no debug platform dot1x command. Description

debug platform etherchannel

Use the **debug platform etherchannel** privileged EXEC command to enable debugging of platform-dependent EtherChannel events. Use the **no** form of this command to disable debugging.

debug platform etherchannel {init | link-up | rpc | warnings}

no debug platform etherchannel {init | link-up | rpc | warnings}

Syntax Description	init	Display EtherChannel module initialization debug messages.
	link-up	Display EtherChannel link-up and link-down related debug messages.
	rpc	Display EtherChannel remote procedure call (RPC) debug messages.
	warnings	Display EtherChannel warning debug messages.
Defaults	Debugging is disa	abled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
	The undebug platform etherchannel command is the same as the no debug platform etherchanne command.	
Usage Guidelines		tform etherchannel command is the same as the no debug platform etherchannel
Usage Guidelines Related Commands		tform etherchannel command is the same as the no debug platform etherchannel Description

debug platform fallback-bridging

Use the **debug platform fallback-bridging** privileged EXEC command to enable debugging of the platform-dependent fallback bridging manager. Use the **no** form of this command to disable debugging.

debug platform fallback-bridging [error | retry | rpc {events | messages}]

no debug platform fallback-bridging [error | retry | rpc {events | messages}]

Syntax Description	error	(Optional) Display fallback bridging manager error condition messages.	
, ,	retry	(Optional) Display fallback bridging manager retry messages.	
	rpc {events messages}	(Optional) Display fallback bridging debugging information. The keywords have these meanings:	
		• events—Display remote procedure call (RPC) events.	
		• messages—Display RPC messages.	
Defaults	Debugging is disabled.		
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(44)SE	This command was introduced.	
Usage Guidelines	If you do not specify a ke	eyword, all fallback bridging manager debug messages appear.	
	The undebug platform f fallback-bridging comm	fallback-bridging command is the same as the no debug platform nand.	
Related Commands	Command	Description	
	show debugging	Displays information about the types of debugging that are enabled. For syntax information, select Cisco IOS Release 12.2 Configuration Guides and Command References > Cisco IOS Configuration Fundamentals Configuration Guide, Release 12.2 > System Management > Troubleshooting and Fault Management.	

debug platform forw-tcam

Use the **debug platform forw-tcam** privileged EXEC command to enable debugging of the forwarding ternary content addressable memory (TCAM) manager. Use the **no** form of this command to disable debugging.

debug platform forw-tcam [adjustment | allocate | audit | error | move | read | write]

no debug platform forw-tcam [adjustment | allocate | audit | error | move | read | write]

Syntax Description	adjustment	(Optional) Display TCAM manager adjustment debug messages.
	allocate	(Optional) Display TCAM manager allocation debug messages.
	audit	(Optional) Display TCAM manager audit messages.
	error	(Optional) Display TCAM manager error messages.
	move	(Optional) Display TCAM manager move messages.
	read	(Optional) Display TCAM manager read messages.
	write	(Optional) Display TCAM manager write messages.
Defaults	Debugging is disal	bled.
Command Modes	Privilaged EXEC	
Command Modes	Privileged EXEC	
Command Modes	Privileged EXEC	
	Privileged EXEC	Modification
		Modification This command was introduced.
	Release	
Command History	Release 12.2(25)SEE	
Command Modes Command History Usage Guidelines	Release 12.2(25)SEE	This command was introduced.
Command History	Release 12.2(25)SEE If you do not spect	This command was introduced. ify a keyword, all forwarding TCAM manager debug messages appear.

debug platform ip arp inspection

Use the **debug platform ip arp inspection** privileged EXEC command to debug dynamic Address Resolution Protocol (ARP) inspection events. Use the **no** form of this command to disable debugging.

debug platform ip arp inspection {all | error | event | packet | rpc}

no debug platform ip arp inspection {all | error | event | packet | rpc}

Syntax Description	all	Display all dynamic ARP inspection debug messages.
	error	Display dynamic ARP inspection error debug messages.
	event	Display dynamic ARP inspection event debug messages.
	packet	Display dynamic ARP inspection packet-related debug messages.
	грс	Display dynamic ARP inspection remote procedure call (RPC) request debug messages.
Defaults	Debugging is disab	led.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(44)SE	This command was introduced.
Usage Guidelines	The undebug platform ip arp inspection command is the same as the no debug platform ip arp inspection command.	
Related Commands	Command	Description
	show inventory	Displays the dynamic ARP inspection configuration and operating state.
	show debugging	Displays information about the types of debugging that are enabled. For syntax information, select Cisco IOS Release 12.2 Configuration Guides and Command References > Cisco IOS Configuration Fundamentals

debug platform ip dhcp

Use the **debug platform ip dhcp** privileged EXEC command to debug DHCP events. Use the **no** form of this command to disable debugging.

debug platform ip dhcp [all | error | event | packet | rpc]

no debug platform ip dhcp [all | error | event | packet | rpc]

Syntax Description	all	(Optional) Display all DHCP debug messages.
	error	(Optional) Display DHCP error debug messages.
	event	(Optional) Display DHCP event debug messages.
	packet	(Optional) Display DHCP packet-related debug messages.
	грс	(Optional) Display DHCP remote procedure call (RPC) request debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
sommunu mistory		
oommunu motory	12.2(25)SEE	This command was introduced.
Usage Guidelines		p dhcp command is the same as the no debug platform ip dhcp command.
Jsage Guidelines	The undebug platform ij Command	p dhcp command is the same as the no debug platform ip dhcp command. Description
Usage Guidelines	The undebug platform i	p dhcp command is the same as the no debug platform ip dhcp command.

debug platform ip igmp snooping

Use the **debug platform ip igmp snooping** privileged EXEC command to enable debugging of platform-dependent Internet Group Management Protocol (IGMP) snooping. Use the **no** form of this command to disable debugging.

- debug platform ip igmp snooping {all | di | error | event | group | mgmt | pak | retry | rpc | warn}
- debug platform ip igmp snooping pak {*ip-address* | error | ipopt | leave| query | report | rx | svi | tx}
- debug platform ip igmp snooping rpc [cfg | misc | vlan]
- no debug platform ip igmp snooping {all | di | error | event | group | mgmt | pak | retry | rpc | warn}

yntax Description	all	Display all IGMP snooping debug messages.
	di	Display IGMP snooping destination index (di) coordination remote procedure call (RPC) debug messages.
	error	Display IGMP snooping error messages.
	event	Display IGMP snooping event debug messages.
	group	Display IGMP snooping group debug messages.
	mgmt	Display IGMP snooping management debug messages.
	pak { <i>ip-address</i> error ipopt leave	Display IGMP snooping packet event debug messages. The keywords have these meanings:
	query report rx svi tx }	• <i>ip-address</i> —IP address of the IGMP group.
	5 v1 tA {	• error—Display IGMP snooping packet error debug messages.
		• ipopt —Display IGMP snooping IP bridging options debug messages.
		• leave—Display IGMP snooping leave debug messages.
		• query —Display IGMP snooping query debug messages.
		• report —Display IGMP snooping report debug messages.
		• rx —Display IGMP snooping received packet debug messages.
		• svi —Display IGMP snooping switched virtual interface (SVI) packet debug messages.
		• tx —Display IGMP snooping sent packet debug messages.
	retry	Display IGMP snooping retry debug messages.
	rpc [cfg misc vlan]	Display IGMP snooping remote procedure call (RPC) event debug messages The keywords have these meanings:
		• cfg—(Optional) Display IGMP snooping RPC debug messages.
		• misc —(Optional) IGMP snooping miscellaneous RPC debug messages.
		• vlan—(Optional) IGMP snooping VLAN assert RPC debug messages.
	warn	Display IGMP snooping warning messages.

<u>)</u> Note

Though visible in the command-line help strings, the **rpc l3mm** keyword is not supported.

Defaults	Debugging is disabled	l.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	<u> </u>	This command was introduced. m ip igmp snooping command is the same as the no debug platform ip igmp
	The undebug platfor	
Usage Guidelines	The undebug platfor snooping command.	m ip igmp snooping command is the same as the no debug platform ip igmp

debug platform ip multicast

Use the **debug platform ip multicast** privileged EXEC command to enable debugging of IP multicast routing. Use the **no** form of this command to disable debugging.

debug platform ip multicast {all | mdb | mdfs-rp-retry | midb | mroute-rp | resources | retry | rpf-throttle | snoop-events | software-forward | swidb-events | vlan-locks}

no debug platform ip multicast {all | mdb | mdfs-rp-retry | midb | mroute-rp | resources | retry | rpf-throttle | snoop-events | software-forward | swidb-events | vlan-locks}

Syntax Description	all	Display all platform IP-multicast event debug messages.
		Note Using this command can degrade the performance of the switch.
	mdb	Display IP-multicast debug messages for multicast distributed fast switching (MDFS) multicast descriptor block (mdb) events.
	mdfs-rp-retry	Display IP-multicast MDFS rendezvous point (RP) retry event debug messages.
	midb	Display IP-multicast MDFS multicast interface descriptor block (MIDB) debug messages.
	mroute-rp	Display IP-multicast RP event debug messages.
	resources	Display IP-multicast hardware resource debug messages.
	retry	Display IP-multicast retry processing event debug messages.
	rpf-throttle	Display IP-multicast reverse path forwarding (RPF) throttle event debug messages.
Defaults	snoop-events	Display IP-multicast IGMP snooping event debug messages.
	software-forward	Display IP-multicast software forwarding event debug messages.
	swidb-events	Display IP-multicast MDFS software interface descriptor block (swidb) or global event debug messages.
	vlan-locks Debugging is disabled	Display IP-multicast VLAN lock and unlock event debug messages.
		d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.1(11)AX	This command was introduced.
Usage Guidelines The undebug platform ip multicast command is the same as the no debug platform ip multicast command.

When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the **session** *switch-number* privileged EXEC command. Then enter the **debug** command at the command-line prompt of the stack member. You also can use the **remote command** *stack-member-number LINE* privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled. For syntax information, select Cisco IOS Release 12.2 Configuration Guides and Command References > Cisco IOS Configuration Fundamentals Configuration Guide, Release 12.2 > System Management > Troubleshooting and Fault Management.

debug platform ip unicast

Use the **debug platform ip unicast** privileged EXEC command to enable debugging of platform-dependent IP unicast routing. Use the **no** form of this command to disable debugging.

debug platform ip unicast {adjacency | all | arp | dhcp | errors | events | interface | mpath | registries | retry | route | rpc | standby | statistics}

no debug platform ip unicast {adjacency | all | arp | dhcp | errors | events | interface | mpath | registries | retry | route | rpc | standby | statistics}

Syntax Description	adjacency	Display IP unicast routing adjacency programming event debug messages.			
	all	Display all platform IP unicast routing debug messages.			
		Note Using this command can degrade the performance of the switch.			
	arp	Display IP unicast routing Address Resolution Protocol (ARP) and ARP throttling debug messages.			
	dhcp	Display IP unicast routing DHCP dynamic address-related event debug messages.			
	errors	Display all IP unicast routing error debug messages, including resource allocation failures.			
	events	Display all IP unicast routing event debug messages, including registry and miscellaneous events.			
	interface	Display IP unicast routing interface event debug messages.			
	mpath	Display IP unicast routing multi-path adjacency programming event debug messages (present when performing equal or unequal cost routing).			
	registries	Display IP unicast routing forwarding information database (FIB), adjacency add, update, and delete registry event debug messages.			
	retry	Display IP unicast routing reprogram FIBs with ternary content addressable memory (TCAM) allocation failure debug messages.			
	route	Display IP unicast routing FIB TCAM programming event debug messages.			
	rpc	Display IP unicast routing Layer 3 unicast remote procedure call (RPC) interaction debug messages.			
	standby	Display IP unicast routing standby event debug messages, helpful in troubleshooting Hot Standby Routing Protocol (HSRP) issues.			
	statistics	Display IP unicast routing statistics gathering-related event debug messages.			
Defaults Command Modes	Debugging is disabled.				
	Privileged EXEC				
	č				
Command History	Release	Modification			
	12.1(11)AX	This command was introduced			

Usage Guidelines

The undebug platform ip unicast command is the same as the no debug platform ip unicast command.

When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the **session** *switch-number* privileged EXEC command. Then enter the **debug** command at the command-line prompt of the stack member. You also can use the **remote command** *stack-member-number LINE* privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled. For syntax information, select Cisco IOS Release 12.2 Configuration Guides and Command References > Cisco IOS Configuration Fundamentals Configuration Guide, Release 12.2 > System Management > Troubleshooting and Fault Management.

debug platform ipc

Use the **debug platform ipc** privileged EXEC command to enable debugging of the platform-dependent Interprocess Communication (IPC) Protocol. Use the **no** form of this command to disable debugging.

debug platform ipc {all | init | receive | send | trace}

no debug platform {all | init | receive | send | trace}

Syntax Description	all D	Display all platform IPC debug messages.
	N	ote Using this command can degrade the performance of the switch.
	init D	Display debug messages related to IPC initialization.
	receive D	Display IPC traces each time an IPC packet is received by the switch.
	send D	Display IPC traces each time an IPC packet is sent by the switch.
		Display IPC trace debug messages, tracing the code path as the IPC functions are xecuted.
efaults	Debugging is di	sabled.
ommand Modes	Privileged EXE	C
Command History	Release	Modification
	12.1(44)SE	This command was introduced.
Jsage Guidelines	The undebug p l	latform ipc command is the same as the no debug platform ipc.
Related Commands	Command	Description
	show debuggin	g Displays information about the types of debugging that are enabled. For syntax information, select Cisco IOS Release 12.2 Configuration Guides and Command References > Cisco IOS Configuration Fundamentals Configuration Guide, Release 12.2 > System Management > Troubleshooting and Fault Management.

debug platform led

Use the **debug platform led** privileged EXEC command to enable debugging of light-emitting diode (LED) actions. Use the **no** form of this command to disable debugging.

debug platform led {generic | signal}

no debug platform led {generic | signal}

Syntax Description	generic Display LED generic action debug messages.			
	signal Dis	play LED signal bit map debug messages.		
Note	Though visible in	Though visible in the command-line help strings, the stack keyword is not supported.		
Defaults	Debugging is disa	bled.		
Command Modes	Privileged EXEC			
Command History	Release	Modification		
	12.2(25)SEE	This command was introduced.		
Usage Guidelines	The undebug plan	form led command is the same as the no debug platform led command.		
Related Commands	Command	Description		
	show debugging	Displays information about the types of debugging that are enabled.		

debug platform matm

Use the **debug platform matm** privileged EXEC command to enable debugging of platform-dependent MAC address management. Use the **no** form of this command to disable debugging.

debug platform matm {aging | all | ec-aging | errors | learning | rpc | secure-address | warnings}

no debug platform matm {aging | all | ec-aging | errors | learning | rpc | secure-address | warnings}

Syntax Description	aging	Display MAC address aging debug messages.
	all	Display all platform MAC address management event debug messages.
	ec-aging	Display EtherChannel address aging-related debug messages.
	errors	Display MAC address management error messages.
	learning	Display MAC address management address-learning debug messages.
	rpc	Display MAC address management remote procedure call (RPC) related debug
		messages.
	secure-address	Display MAC address management secure address learning debug messages.
	warning	Display MAC address management warning messages.
Defaults Command Modes	Debugging is disat	oled.
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug plat	form matm command is the same as the no debug platform matm command.
Related Commands	Command	Description
	debug matm	Displays information about platform-independent MAC address management.
	show debugging	Displays information about the types of debugging that are enabled.

debug platform messaging application

Use the **debug platform messaging application** privileged EXEC command to enable debugging of application messaging activity. Use the **no** form of this command to disable debugging.

debug platform messaging application {all | badpak | cleanup | events | memerr | messages | usererr}

no debug platform messaging application {all | badpak | cleanup | events | memerr | messages | usererr}

Syntax Description	all	Display all application-messaging debug messages.
	badpak	Display bad-packet debug messages.
	cleanup	Display clean-up debug messages.
	events	Display event debug messages.
	memerr	Display memory-error debug messages.
	messages	Display application-messaging debug messages.
	usererr	Display user-error debug messages.
Note	Though visible in the	e command-line help strings, the stackchg keyword is not supported.
ommand Modes	Privileged EXEC	
	Privileged EXEC	Modification
	Privileged EXEC Release 12.2(25)SEE	Modification This command was introduced.
Command Modes Command History Usage Guidelines	Release 12.2(25)SEE	This command was introduced. rm messaging application command is the same as the no debug platform
Command History	Release 12.2(25)SEE The undebug platfor	This command was introduced. rm messaging application command is the same as the no debug platform

debug platform phy

Use the **debug platform phy** privileged EXEC command to enable debugging of PHY driver information. Use the **no** form of this command to disable debugging.

- debug platform phy {automdix | cablediag | dual-purpose | flcd {configure | ipc | iter | trace} |
 flowcontrol | forced | init-seq | link-status | read | sfp | show-controller | speed | write |
 xenpak }
- no debug platform phy {automdix | cablediag | dual-purpose | flcd {configure | ipc | iter | trace} | flowcontrol | forced | init-seq | link-status | read | sfp | show-controller | speed | write | xenpak}

Syntax Description	automdix	Display PHY automatic medium-dependent interface crossover (auto-MDIX) debug messages.
	cablediag	Display PHY cable-diagnostic debug messages.
	dual-purpose	Display PHY dual-purpose event debug messages.
	flcd {configure ipc	Display PHY FLCD debug messages. The keywords have these meanings:
	iter trace}	• configure —Display PHY configure debug messages.
		• ipc —Display Interprocess Communication Protocol (IPC) debug messages.
		• iter—Display iter debug messages.
		• trace —Display trace debug messages.
	flowcontrol	Display PHY flowcontrol debug messages.
	forced	Display PHY forced-mode debug messages.
	init-seq	Display PHY initialization-sequence debug messages.
	link-status	Display PHY link-status debug messages.
	read	Display PHY-read debug messages.
	sfp	Display PHY small form-factor pluggable (SFP) modules debug messages.
	show-controller	Display PHY show-controller debug messages.
	speed	Display PHY speed-change debug messages.
	write	Display PHY-write debug messages.
	xenpak	Display PHY XENPAK debug messages
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification

Command History	Kelease	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The **undebug platform phy** command is the same as the **no debug platform phy** command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform pm

Use the **debug platform pm** privileged EXEC command to enable debugging of the platform-dependent port manager software module. Use the **no** form of this command to disable debugging.

debug platform pm {all | counters | errdisable | etherchnl | exceptions | hpm-events | idb-events | if-numbers | ios-events | link-status | platform | pm-events | pm-span | pm-vectors [detail] | rpc [general | oper-info | state | vectors | vp-events] | soutput-vectors | sync | vlans}

no debug platform pm {all | counters | errdisable | etherchnl | exceptions | hpm-events | idb-events | if-numbers | ios-events | link-status | platform | pm-events | pm-span | pm-vectors [detail] | rpc [general | oper-info | state | vectors | vp-events] | soutput-vectors | sync | vlans}

	Display all port-manager debug messages.
nters	Display counters for remote procedure call (RPC) debug messages.
lisable	Display error-disabled related-events debug messages.
rchnl	Display EtherChannel related-events debug messages.
ptions	Display system exception debug messages.
-events	Display platform port-manager event debug messages.
events	Display interface descriptor block (IDB) related-events debug messages.
umbers	Display interface-number translation-event debug messages.
events	Display Cisco IOS event debug messages.
-status	Display interface link-detection event debug messages.
form	Display port-manager function-event debug messages.
events	Display port manager event debug messages.
span	Display port manager Switched Port Analyzer (SPAN) event debug messages
vectors [detail]	Display port-manager vector-related-event debug messages. The keyword has this meaning:
	• detail —Display vector-function details.
[general r-info state	Display RPC related-event debug messages. The keywords have these meanings:
vectors vp-events]	• general—(Optional) Display RPC general events.
	• oper-info —(Optional) Display operational- and informational-related RPC messages.
	• state —(Optional) Display administrative- and operational-related RPC messages.
	• vectors—(Optional) Display vector-related RPC messages.
	 vectors—(Optional) Display vector-related RPC messages. vp-events—(Optional) Display virtual ports related-events RP messages
put-vectors	
put-vectors	• vp-events—(Optional) Display virtual ports related-events RP messages
	isable rchnl ptions -events events sevents -status form events span vectors [detail] [general info state

<u>Note</u>

Though visible in the command-line help strings, the **stack-manager** keyword is not supported.

Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug platforn	n pm command is the same as the no debug platform pm command.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform port-asic

Use the **debug platform port-asic** privileged EXEC command to enable debugging of the port application-specific integrated circuit (ASIC) driver. Use the **no** form of this command to disable debugging.

debug platform port-asic {interrupt | periodic | read | write}

no debug platform port-asic {interrupt | periodic | read | write}

Syntax Description	interrupt periodic	Display port-ASIC interrupt-related function debug messages. Display port-ASIC periodic-function-call debug messages.
	periodic	Display port-ASIC periodic-function-call debug messages
	-	Display port Abre periodic function can debug messages.
	write	Display port-ASIC write debug messages.
Note	Though visible in the	command-line help strings, the stack keyword is not supported.
Defaults	Debugging is disabled	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
-	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug platfor	m port-asic command is the same as the no debug platform port-asic command.
	Commond	Description
Related Commands	Command	Description

debug platform port-security

Use the **debug platform port-security** privileged EXEC command to enable debugging of platform-dependent port-security information. Use the **no** form of this command to disable debugging.

debug platform port-security {add | aging | all | delete | errors | rpc | warnings}

no debug platform port-security {add | aging | all | delete | errors | rpc | warnings}

	show debugging	Displays information about the types of debugging that are enabled.
Related Commands	Command	Description
Usage Guidelines	The undebug platforn command.	n port-security command is the same as the no debug platform port-security
	12.2(25)SEE	This command was introduced.
Command History	Release	Modification
Command Modes	Privileged EXEC	
Defaults	Debugging is disabled.	
	warnings	Display warning debug messages.
	rpc	Display remote procedure call (RPC) debug messages.
	errors	Display port-security error debug messages.
	delete	Display secure address deletion debug messages.
	all	Display all port-security debug messages.
	aging	Display secure address aging debug messages.
Syntax Description	add	Display secure address addition debug messages.

debug platform qos-acl-tcam

Use the **debug platform qos-acl-tcam** privileged EXEC command to enable debugging of the quality of service (QoS) and access control list (ACL) ternary content addressable memory (TCAM) manager software. Use the **no** form of this command to disable debugging.

debug platform qos-acl-tcam {all | ctcam | errors | labels | mask | rpc | tcam}

no debug platform qos-acl-tcam {all | ctcam | errors | labels | mask | rpc | tcam}

Syntax Description	all	Display all QoS and ACL TCAM (QATM) manager debug messages.
	ctcam	Display Cisco TCAM (CTCAM) related-events debug messages.
	errors	Display QATM error-related-events debug messages.
	labels	Display QATM label-related-events debug messages.
	mask	Display QATM mask-related-events debug messages.
	rpc	Display QATM remote procedure call (RPC) related-events debug messages.
	tcam	Display QATM TCAM-related events debug messages.
Defaults	Debugging is disal	bled.
command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
	. ,	
Jsage Guidelines	The undebug plat command.	
Jsage Guidelines Related Commands	••	form qos-acl-tcam command is the same as the no debug platform qos-acl-tcam Description

debug platform remote-commands

Use the **debug platform remote-commands** privileged EXEC command to enable debugging of remote commands. Use the **no** form of this command to disable debugging.

debug platform remote-commands

no debug platform remote-commands

Syntax Description	This command has r	no arguments or keywords.
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- **Defaults** Debugging is disabled.
- **Command Modes** Privileged EXEC

 Command History
 Release
 Modification

 12.2(25)SEE
 This command was introduced.

Usage Guidelines The undebug platform remote-commands command is the same as the no debug platform remote-commands command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform resource-manager

Use the **debug platform resource-manager** privileged EXEC command to enable debugging of the resource manager software. Use the **no** form of this command to disable debugging.

debug platform resource-manager {all | dm | erd | errors | madmed | sd | stats | vld }

no debug platform resource-manager {all | dm | erd | errors | madmed | sd | stats | vld }

Syntax Description	all	Display all resource manager debug messages.
	dm	Display destination-map debug messages.
	erd	Display equal-cost-route descriptor-table debug messages.
	errors	Display error debug messages.
	madmed	Display the MAC address descriptor table and multi-expansion descriptor table debug messages.
	sd	Display the station descriptor table debug messages.
	stats	Display statistics debug messages.
	vld	Display the VLAN-list descriptor debug messages.
Defaults	Debugging is disa	bled.
	Debugging is disal Privileged EXEC	bled.
Defaults Command Modes Command History		Modification
Command Modes	Privileged EXEC	
Command Modes Command History	Privileged EXEC Release 12.2(25)SEE	Modification This command was introduced. form resource-manager command is the same as the no debug platform
Command Modes	Privileged EXEC Release 12.2(25)SEE The undebug plat	Modification This command was introduced. form resource-manager command is the same as the no debug platform

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debug platform snmp

Use the **debug platform snmp** privileged EXEC command to enable debugging of the platform-dependent Simple Network Management Protocol (SNMP) software. Use the **no** form of this command to disable debugging.

debug platform snmp

no debug platform snmp

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The **undebug platform snmp** command is the same as the **no debug platform snmp** command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform span

Use the **debug platform span** privileged EXEC command to enable debugging of the platform-dependent Switched Port Analyzer (SPAN) software. Use the **no** form of this command to disable debugging.

debug platform span

no debug platform span

Syntax Description	This command has no	arguments or keywords.
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Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The **undebug platform span** command is the same as the **no debug platform span** command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

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debug platform supervisor-asic

Use the **debug platform supervisor-asic** privileged EXEC command to enable debugging of the supervisor application-specific integrated circuit (ASIC). Use the **no** form of this command to disable debugging.

debug platform supervisor-asic {all | errors | receive | send}

no debug platform supervisor-asic {all | errors | receive | send}

Syntax Description	all	Display all supervisor-ASIC event debug messages.
	errors	Display the supervisor-ASIC error debug messages.
	receive	Display the supervisor-ASIC receive debug messages.
	send	Display the supervisor-ASIC send debug messages.
Defaults	Debugging is disabled	I.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug platfor supervisor-asic comr	m supervisor-asic command is the same as the no debug platform nand.
Related Commands	Command	Description

debug platform sw-bridge

Use the **debug platform sw-bridge** privileged EXEC command to enable debugging of the software bridging function. Use the **no** form of this command to disable debugging.

debug platform sw-bridge {broadcast | control | multicast | packet | unicast}

no debug platform sw-bridge {broadcast | control | multicast | packet | unicast}

Syntax Description	broadcast	Display broadcast-data debug messages.
	control	Display protocol-packet debug messages.
	multicast	Display multicast-data debug messages.
	packet	Display sent and received data debug messages.
	unicast	Display unicast-data debug messages.
Defaults	Debugging is disabled	l.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(25)SEE	Modification This command was introduced.
Command History Usage Guidelines	12.2(25)SEE	
	12.2(25)SEE The undebug platform	This command was introduced.

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debug platform tcam

Use the **debug platform tcam** privileged EXEC command to enable debugging of ternary content addressable memory (TCAM) access and lookups. Use the **no** form of this command to disable debugging.

- debug platform tcam {log | read | search | write}
- debug platform tcam log l2 {acl {input | output} | local | qos}
- debug platform tcam log l3 {acl {input | output} | ipv6 {acl {input | output} | local | qos | secondary} | local | qos | secondary}
- debug platform tcam read {reg | ssram | tcam}
- debug platform tcam search
- debug platform tcam write {forw-ram | reg | tcam}
- no debug platform tcam {log | read | search | write}
- no debug platform tcam log l2 {acl {input | output} | local | qos}
- no debug platform tcam log l3 {acl {input | output} | ipv6 {acl {input | output} | local | qos | secondary} | local | qos | secondary}
- no debug platform tcam read {reg | ssram | tcam}
- no debug platform tcam search
- no debug platform tcam write {forw-ram | reg | tcam}

Syntax Description	log l2 {acl {input output} local qos}	Display Layer 2 field-based CAM look-up type debug messages. The keywords have these meanings:
		• acl {input output }—Display input or output ACL look-up debug messages.
		• local—Display local forwarding look-up debug messages.
		• qos —Display classification and quality of service (QoS) look-up debug messages.
	l3 {acl {input output} ipv6 {acl {input output}	Display Layer 3 field-based CAM look-up type debug messages. The keywords have these meanings:
	 local qos secondary } messages. ipv6 {acl {input output} local output } local output ACL look-up, local for and QoS look-up, local for and QoS look-up, or state debug messages. local—Display local forwarding local output and quadebug messages. 	• acl {input output }—Display input or output ACL look-up debug messages.
		• ipv6 { acl { input output } local qos secondary }—Display IPv6-based look-up debug messages. Options include displaying input or output ACL look-up, local forwarding look-up, classification and QoS look-up, or secondary forwarding look-up debug messages.
		• local—Display local forwarding look-up debug messages.
		• qos —Display classification and quality of service (QoS) look-up debug messages.
		 secondary—Display secondary forwarding look-up debug messages.
	read {reg ssram tcam}	Display TCAM-read debug messages. The keywords have these meanings:
		• reg —Display TCAM-register read debug messages.
		• ssram —Display synchronous static RAM (SSRAM)-read debug messages.
		• tcam—Display TCAM-read debug messages.
	search	Display supervisor-initiated TCAM-search results debug messages.
	write {forw-ram reg tcam}	Display TCAM-write debug messages. The keywords have these meanings:
		forw-ram—Display forwarding-RAM write debug messages.
		reg—Display TCAM-register write debug messages.
		tcam—Display TCAM-write debug messages.

Note

Though visible in the command-line help strings, the **13 ipv6** {**acl** {**input** | **output**} | **local** | **qos** | secondary}, the **13 local**, and the **13 secondary** keywords are not supported.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
	12.2(44)SE	The ipv6 , acl , input , output , local , qos , secondary , and local keywords were added.
Usage Guidelines	The undebug platfor	rm tcam command is the same as the no debug platform tcam command.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform udld

Use the **debug platform udld** privileged EXEC command to enable debugging of the platform-dependent UniDirectional Link Detection (UDLD) software. Use the **no** form of this command to disable debugging.

debug platform udld [all | error | rpc {events | messages}]

no debug platform udld [all | error | rpc {events | messages}]

Syntax Description	all	(Optional) Display all UDLD debug messages.
	error	(Optional) Display error condition debug messages.
	rpc {events messages	 Optional) Display UDLD remote procedure call (RPC) debug messages. The keywords have these meanings:
		• events—Display UDLD RPC events.
		• messages—Display UDLD RPC messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
-	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug platform	udld command is the same as the no debug platform udld command.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform vlan

Use the **debug platform vlan** privileged EXEC command to enable debugging of the VLAN manager software. Use the **no** form of this command to disable debugging.

debug platform vlan {errors | mvid | rpc}

no debug platform vlan {errors | mvid | rpc}

Syntax Description	errors	Display VLAN error debug messages.
	mvid	Display mapped VLAN ID allocations and free debug messages.
	rpc	Display remote procedure call (RPC) debug messages.
efaults	Debugging in disebbe	1
erauns	Debugging is disabled	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines		m vlan command is the same as the no debug platform vlan command.
Usage Guidelines Related Commands	The undebug platfor	m vlan command is the same as the no debug platform vlan command. Description

debug pm

Use the **debug pm** privileged EXEC command to enable debugging of port manager (PM) activity. The port manager is a state machine that controls all the logical and physical interfaces. All features, such as VLANs, UniDirectional Link Detection (UDLD), and so forth, work with the port manager to provide switch functions. Use the **no** form of this command to disable debugging.

debug pm {all | assert | card | etherchnl | hatable | messages | port | redundancy | registry | sm | span | split | vlan | vp}

no debug pm {all | assert | card | etherchnl | hatable | messages | port | redundancy | registry | sm | span | split | vlan | vp}

Syntax Description	all	Display all PM debug messages.
	assert	Display assert debug messages.
	card	Display line-card related-events debug messages.
	etherchnl	Display EtherChannel related-events debug messages.
	hatable	Display Host Access Table events debug messages.
	messages	Display PM debug messages.
	port	Display port related-events debug messages.
	redundancy	Display redundancy debug messages.
	registry	Display PM registry invocation debug messages.
	sm	Display state-machine related-events debug messages.
	span	Display spanning-tree related-events debug messages.
	split	Display split-processor debug messages.
	vlan	Display VLAN related-events debug messages.
	vp	Display virtual port related-events debug messages.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History Release Modification 12.2(25)SEE This command was introduced.

Usage Guidelines The **undebug pm** command is the same as the **no debug pm** command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug port-security

Use the **debug port-security** privileged EXEC command to enable debugging of the allocation and states of the port security subsystem. Use the **no** form of this command to disable debugging.

debug port-security

no debug port-security

Syntax Description This command has no arguments or keywords
--

- **Defaults** Debugging is disabled.
- **Command Modes** Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The **undebug port-security** command is the same as the **no debug port-security** command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show port-security	Displays port-security settings for an interface or for the switch.

debug qos-manager

Use the **debug qos-manager** privileged EXEC command to enable debugging of the quality of service (QoS) manager software. Use the **no** form of this command to disable debugging.

debug qos-manager {all | event | verbose}

no debug qos-manager $\{all \mid event \mid verbose\}$

Syntax Description	all	Display all QoS-manager debug messages.
	event	Display QoS-manager related-event debug messages.
	verbose	Display QoS-manager detailed debug messages.
Defaults	Debugging is disabl	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug qos-n	nanager command is the same as the no debug qos-manager command. Description
Related Commands	oonnana	Description
Related Commands	show debugging	Displays information about the types of debugging that are enabled.

debug spanning-tree

Use the **debug spanning-tree** privileged EXEC command to enable debugging of spanning-tree activities. Use the **no** form of this command to disable debugging.

- debug spanning-tree {all | backbonefast | bpdu | bpdu-opt | config | csuf/csrt | etherchannel |
 events | exceptions | general | mstp | pvst+ | root | snmp | switch | synchronization |
 uplinkfast}
- no debug spanning-tree {all | backbonefast | bpdu | bpdu-opt | config | csuf/csrt | etherchannel | events | exceptions | general | mstp | pvst+ | root | snmp | switch | synchronization | uplinkfast}

Syntax Description	all	Display all spanning-tree debug messages.
	backbonefast	Display BackboneFast-event debug messages.
	bpdu	Display spanning-tree bridge protocol data unit (BPDU) debug messages.
	bpdu-opt	Display optimized BPDU handling debug messages.
	config	Display spanning-tree configuration change debug messages.
	csuf/csrt	Display cross-stack UplinkFast and cross-stack rapid transition activity debug messages.
	etherchannel	Display EtherChannel-support debug messages.
	events	Display spanning-tree topology event debug messages.
	exceptions	Display spanning-tree exception debug messages.
	general	Display general spanning-tree activity debug messages.
	mstp	Debug Multiple Spanning Tree Protocol events.
	pvst+	Display per-VLAN spanning-tree plus (PVST+) event debug messages.
	root	Display spanning-tree root-event debug messages.
	snmp	Display spanning-tree Simple Network Management Protocol (SNMP) handling debug messages.
	synchronization	Display the spanning-tree synchronization event debug messages.
	switch	Display switch shim command debug messages. This shim is the software module that is the interface between the generic Spanning Tree Protocol (STP) code and the platform-specific code of various switch platforms.
	uplinkfast	Display UplinkFast-event debug messages.

Note

Though visible in the command-line help strings, the **csuf/csrt** keyword is not supported.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug spanning-tree command is the same as the no debug spanning-tree command.	
Related Commands	Command	Description
Related Commands	Command show debugging	Description Displays information about the types of debugging that are enabled.

debug spanning-tree backbonefast

Use the **debug spanning-tree backbonefast** privileged EXEC command to enable debugging of spanning-tree BackboneFast events. Use the **no** form of this command to disable debugging.

debug spanning-tree backbonefast [detail | exceptions]

no debug spanning-tree backbonefast [detail | exceptions]

Syntax Description	detail (C	ptional) Display detailed BackboneFast debug messages.
	exceptions (C	ptional) Display spanning-tree BackboneFast-exception debug messages.
Defaults	Debugging is disable	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug spanning-tree backbonefast command is the same as the no debug spanning-tree backbonefast command.	
Related Commands	Command	Description
Related Commands	Command show debugging	Description Displays information about the types of debugging that are enabled.

debug spanning-tree bpdu

Use the **debug spanning-tree bpdu** privileged EXEC command to enable debugging of sent and received spanning-tree bridge protocol data units (BPDUs). Use the **no** form of this command to disable debugging.

debug spanning-tree bpdu [receive | transmit]

no debug spanning-tree bpdu [receive | transmit]

Syntax Description	receive (Opt	tional) Display the nonoptimized path for received BPDU debug messages.
	transmit (Opt	tional) Display the nonoptimized path for sent BPDU debug messages.
efaults	Debugging is disabled.	
ommand Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug spanning-tree bpdu command is the same as the no debug spanning-tree bpd command.	
Related Commands	Command	Description
Related Commands	Command show debugging	Description Displays information about the types of debugging that are enabled.

debug spanning-tree bpdu-opt

Use the **debug spanning-tree bpdu-opt** privileged EXEC command to enable debugging of optimized spanning-tree bridge protocol data units (BPDUs) handling. Use the **no** form of this command to disable debugging.

debug spanning-tree bpdu-opt [detail | packet]

no debug spanning-tree bpdu-opt [detail | packet]

Syntax Description	detail (Opt	ional) Display detailed optimized BPDU-handling debug messages.
	packet (Opt	ional) Display packet-level optimized BPDU-handling debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug spanninş command.	g-tree bpdu-opt command is the same as the no debug spanning-tree bpdu-opt
Usage Guidelines Related Commands		g-tree bpdu-opt command is the same as the no debug spanning-tree bpdu-opt Description
	command.	

debug spanning-tree mstp

Use the **debug spanning-tree mstp** privileged EXEC command to enable debugging of the Multiple Spanning Tree Protocol (MSTP) software. Use the **no** form of this command to disable debugging.

debug spanning-tree mstp {all | boundary | bpdu-rx | bpdu-tx | errors | flush | init | migration | pm | proposals | region | roles | sanity_check | sync | tc | timers}

no debug spanning-tree mstp {all | boundary | bpdu-rx | bpdu-tx | errors | flush | init | migration | pm | proposals | region | roles | sanity_check | sync | tc | timers}

k k k k k k k k k k k k k k k k k k k	all	Enable all the debugging messages.
	boundary	Debug flag changes at these boundaries:
		• An multiple spanning-tree (MST) region and a single spanning-tree region running Rapid Spanning Tree Protocol (RSTP)
		• An MST region and a single spanning-tree region running 802.1D
		• An MST region and another MST region with a different configuration
	bpdu-rx	Debug the received MST bridge protocol data units (BPDUs).
	bpdu-tx	Debug the sent MST BPDUs.
	errors	Debug MSTP errors.
	flush	Debug the port flushing mechanism.
	init	Debug the initialization of the MSTP data structures.
	migration	Debug the protocol migration state machine.
	рт	Debug MSTP port manager events.
	proposals	Debug handshake messages between the designated switch and the root switch.
	region	Debug the region synchronization between the switch processor (SP) and the route processor (RP).
	roles	Debug MSTP roles.
	sanity_check	Debug the received BPDU sanity check messages.
	sync	Debug the port synchronization events.
	tc	Debug topology change notification events.
	timers	Debug the MSTP timers for start, stop, and expire events.
efaults	Debugging is di	sabled.
ommand Modes	Privileged EXE	C
command History	Release	Modification
	12.2(25)SEE	This command was introduced.

Usage Guidelines The undebug spanning-tree mstp command is the same as the no debug spanning-tree mstp command.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show spanning-tree	Displays spanning-tree state information.
debug spanning-tree switch

Use the **debug spanning-tree switch** privileged EXEC command to enable debugging of the software interface between the Spanning Tree Protocol (STP) software module and the port manager software module. Use the **no** form of this command to disable debugging.

debug spanning-tree switch {all | errors | flush | general | helper | pm | rx {decode | errors | interrupt | process} | state | tx [decode] | uplinkfast}

no debug spanning-tree switch {all | errors | flush | general | helper | pm | rx {decode | errors | interrupt | process} | state | tx [decode] | uplinkfast}

rors Ish neral Iper n	Display all spanning-tree switch debug messages.Display debug messages for the interface between the spanning-tree software module and the port manager software module.Display debug messages for the shim flush operation.Display general event debug messages.Display spanning-tree helper-task debug messages. Helper tasks handle bulk spanning-tree updates.Display port-manager event debug messages.Display received bridge protocol data unit (BPDU) handling debug messages. The keywords have these meanings:
ish neral lper n	module and the port manager software module.Display debug messages for the shim flush operation.Display general event debug messages.Display spanning-tree helper-task debug messages. Helper tasks handle bulk spanning-tree updates.Display port-manager event debug messages.Display received bridge protocol data unit (BPDU) handling debug messages. The
neral Iper n	Display general event debug messages. Display spanning-tree helper-task debug messages. Helper tasks handle bulk spanning-tree updates. Display port-manager event debug messages. Display received bridge protocol data unit (BPDU) handling debug messages. The
lper n	Display spanning-tree helper-task debug messages. Helper tasks handle bulk spanning-tree updates. Display port-manager event debug messages. Display received bridge protocol data unit (BPDU) handling debug messages. The
n	spanning-tree updates. Display port-manager event debug messages. Display received bridge protocol data unit (BPDU) handling debug messages. The
	Display received bridge protocol data unit (BPDU) handling debug messages. The
	• decode —Display decoded received packets.
	• errors—Display receive error debug messages.
	• interrupt—Display interrupt service request (ISR) debug messages.
	• process —Display process receive BPDU debug messages.
ate	Display spanning-tree port state change debug messages;
[decode]	Display sent BPDU handling debug messages. The keyword has this meaning:
	• decode —(Optional) Display decoded sent packets.
linkfast	Display uplinkfast packet transmission debug messages.
bugging is dis	ablad
bugging is uis	auteu.
vileged EXEC	
lease	Modification
.2(25)SEE	This command was introduced.
	ate [decode] [linkfast bugging is dis vileged EXEC [lease .2(25)SEE e undebug sp

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Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show spanning-tree	Displays spanning-tree state information.

debug spanning-tree uplinkfast

Use the **debug spanning-tree uplinkfast** privileged EXEC command to enable debugging of spanning-tree UplinkFast events. Use the **no** form of this command to disable debugging.

debug spanning-tree uplinkfast [exceptions]

no debug spanning-tree uplinkfast [exceptions]

Syntax Description	exceptions (Opti	ional) Display spanning-tree UplinkFast-exception debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug spanning uplinkfast command.	g-tree uplinkfast command is the same as the no debug spanning-tree
		g-tree uplinkfast command is the same as the no debug spanning-tree Description
Usage Guidelines Related Commands	uplinkfast command.	

debug sw-vlan

Use the **debug sw-vlan** privileged EXEC command to enable debugging of VLAN manager activities. Use the **no** form of this command to disable debugging.

debug sw-vlan {badpmcookies | cfg-vlan {bootup | cli} | events | ifs | management | mapping | notification | packets | redundancy | registries | vtp}

no debug sw-vlan {badpmcookies | cfg-vlan {bootup | cli} | events | ifs | management | mapping | notification | packets | redundancy | registries | vtp}

fg-vlan {bootup cli}	 Display config-vlan debug messages. The keywords have these meanings: bootup—Display messages when the switch is booting up.
	• bootup —Display messages when the switch is booting up.
	• cli —Display messages when the command-line interface (CLI) is in config-vlan mode.
events	Display debug messages for VLAN manager events.
fs	See the debug sw-vlan ifs command.
management	Display debug messages for VLAN manager management of internal VLANs.
napping	Display debug messages for VLAN mapping.
notification	See the debug sw-vlan notification command.
packets	Display debug messages for packet handling and encapsulation processes.
redundancy	Display debug messages for VTP VLAN redundancy.
registries	Display debug messages for VLAN manager registries.
vtp	See the debug sw-vlan vtp command.
Debugging is disabled.	
rivileged EXEC	
Release	Modification
12.2(25)SEE	This command was introduced.
	nanagement napping notification packets redundancy registries /tp Debugging is disabled. /rivileged EXEC Release

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show vlan	Displays the parameters for all configured VLANs or one VLAN (if the VLAN name or ID is specified) in the administrative domain.
	show vtp	Displays general information about VTP management domain, status, and counters.

debug sw-vlan ifs

Use the **debug sw-vlan ifs** privileged EXEC command to enable debugging of the VLAN manager IOS file system (IFS) error tests. Use the **no** form of this command to disable debugging.

debug sw-vlan ifs {open {read | write} | read {1 | 2 | 3 | 4} | write}

no debug sw-vlan ifs {open {read | write} | read {1 | 2 | 3 | 4} | write}

Syntax Description	open {read write}	Display VLAN manager IFS file-open operation debug messages. The keywords have these meanings:
		• read—Display VLAN manager IFS file-read operation debug messages.
		• write—Display VLAN manager IFS file-write operation debug messages
	read {1 2 3 4}	Display file-read operation debug messages for the specified error test (1, 2, 3, or 4).
	write	Display file-write operation debug messages.
Defaults	Debugging is disabled	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug sw-vlan	ifs command is the same as the no debug sw-vlan ifs command.
	verification word and contains most of the d	e read operation, Operation 1 reads the file header, which contains the header the file version number. Operation 2 reads the main body of the file, which omain and VLAN information. Operation 3 reads type length version (TLV) Operation 4 reads TLV data.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show vlan	Displays the parameters for all configured VLANs or one VLAN (if the VLAN name or ID is specified) in the administrative domain.

debug sw-vlan notification

Use the **debug sw-vlan notification** privileged EXEC command to enable debugging of the activation and deactivation of Inter-Link Switch (ISL) VLAN IDs. Use the **no** form of this command to disable debugging.

debug sw-vlan notification {accfwdchange | allowedvlancfgchange | fwdchange | linkchange | modechange | pruningcfgchange | statechange}

no debug sw-vlan notification {accfwdchange | allowedvlancfgchange | fwdchange | linkchange | modechange | pruningcfgchange | statechange}

accfwdchange	Display debug messages for VLAN manager notification of aggregated access interface spanning-tree forward changes.
allowedvlancfgchange	Display debug messages for VLAN manager notification of changes to the allowed VLAN configuration.
fwdchange	Display debug messages for VLAN manager notification of spanning-tree forwarding changes.
linkchange	Display debug messages for VLAN manager notification of interface link-state changes.
modechange	Display debug messages for VLAN manager notification of interface mode changes.
pruningcfgchange	Display debug messages for VLAN manager notification of changes to the pruning configuration.
statechange	Display debug messages for VLAN manager notification of interface state changes.
Debugging is disabled.	
Privileged EXEC	
Release	Modification
12.2(25)SEE	This command was introduced.
The undebug sw-vlan n e command.	otification command is the same as the no debug sw-vlan notification
Command	Description
show debugging	Displays information about the types of debugging that are enabled.
show vlan	Displays the parameters for all configured VLANs or one VLAN (if the VLAN name or ID is specified) in the administrative domain.
	allowedvlancfgchange fwdchange linkchange modechange pruningcfgchange statechange Debugging is disabled. Privileged EXEC Release 12.2(25)SEE The undebug sw-vlan ne command. Command show debugging

debug sw-vlan vtp

Use the **debug sw-vlan vtp** privileged EXEC command to enable debugging of the VLAN Trunking Protocol (VTP) code. Use the **no** form of this command to disable debugging.

debug sw-vlan vtp {events | packets | pruning [packets | xmit] | redundancy | xmit}

no debug sw-vlan vtp {events | packets | pruning | redundancy | xmit}

Syntax Description	events	Display debug messages for general-purpose logic flow and detailed VTP messages generated by the VTP_LOG_RUNTIME macro in the VTP code.
	packets	Display debug messages for the contents of all incoming VTP packets that have been passed into the VTP code from the IOS VTP platform-dependent layer, except for pruning packets.
	pruning [packets xmit	Display debug messages generated by the pruning segment of the VTP code. The keywords have these meanings:
		• packets —(Optional) Display debug messages for the contents of all incoming VTP pruning packets that have been passed into the VTP code from the IOS VTP platform-dependent layer.
		• xmit —(Optional) Display debug messages for the contents of all outgoing VTP packets that the VTP code requests the IOS VTP platform-dependent layer to send.
	redundancy	Display debug messages for VTP redundancy.
	xmit	Display debug messages for the contents of all outgoing VTP packets that the VTP code requests the IOS VTP platform-dependent layer to send, except for pruning packets.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug sw-vlan vt	p command is the same as the no debug sw-vlan vtp command.
	appear. They are generate VTP_PRUNING_LOG_I	re entered after the pruning keyword , VTP pruning debugging messages ed by the VTP_PRUNING_LOG_NOTICE, VTP_PRUNING_LOG_INFO, DEBUG, VTP_PRUNING_LOG_ALERT, and VARNING macros in the VTP pruning code.

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show vtp	Displays general information about VTP management domain, status, and counters.

debug udld

Use the **debug udld** privileged EXEC command to enable debugging of the UniDirectional Link Detection (UDLD) feature. Use the **no** form of this command to disable UDLD debugging.

debug udld {events | packets | registries}

no debug udld {events | packets | registries}

Syntax Description	eventsDisplay debug messages for UDLD process events as they occur.packetsDisplay debug messages for the UDLD process as it receives packets from the packet queue and tries to send them at the request of the UDLD protocol code.				
	registries	Display debug messages for the UDLD process as it processes registry calls from the UDLD process-dependent module and other feature modules.			
Defaults	Debugging is dis	sabled.			
Command Modes	Privileged EXEC				
Command History	Release	Modification			
	12.2(25)SEE	This command was introduced.			
	 For debug udld events, these debugging messages appear: General UDLD program logic flow State machine state changes 				
	• Program actions for the set and clear ErrDisable state				
	Neighbor cache additions and deletions				
	Processing of configuration commands				
	Processing of link-up and link-down indications				
	For debug udld packets , these debugging messages appear:				
	General packet processing program flow on receipt of an incoming packet				
	• Indications of the contents of the various pieces of packets received (such as type length versions [TLVs]) as they are examined by the packet reception code				
	• Packet trans	mission attempts and the outcome			
	For debug udld	registries, these categories of debugging messages appear:			
	• Sub-block c	reation			
	• Fiber-port status changes				

- State change indications from the port manager software
- MAC address registry calls

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show udld	Displays UDLD administrative and operational status for all ports or the specified port.

debug vqpc

Use the **debug vqpc** privileged EXEC command to enable debugging of the VLAN Query Protocol (VQP) client. Use the **no** form of this command to disable debugging.

debug vqpc [all | cli | events | learn | packet]

no debug vqpc [all | cli | events | learn | packet]

Syntax Description	all	(Optional) Display all VQP client debug messages.
	cli	(Optional) Display the VQP client command-line interface (CLI) debug
		messages.
	events	(Optional) Display VQP client event debug messages.
	learn	(Optional) Display VQP client address learning debug messages.
	packet	(Optional) Display VQP client packet information debug messages.
Defaults	Debugging is disabl	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(25)SEE	This command was introduced.
Usage Guidelines	The undebug vqpc	command is the same as the no debug vqpc command.
Related Commands	Command	Description