



Catalyst 2975 Switch Debug Commands

This appendix describes the **debug** privileged EXEC commands that have been created or changed for use with the Catalyst 2975 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(46)EX	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.

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.

Examples

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

Switch# debug auto qos
AutoQoS debugging is on
Switch# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)# interface gigabitethernet2/0/1
Switch(config-if)# auto qos 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
21:20:42: no mls qos srr-queue input cos-map

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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 gos srr-queue output cos-map queue 2 threshold 3 3 6 7
21:29:44: mls gos srr-queue output cos-map queue 3 threshold 3 2 4
21:29:44: mls qos 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 gos 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 qos srr-queue input dscp-map queue 1 threshold 3 0 1 2 3 4 5 6 7
21:29:45: mls qos srr-queue input dscp-map queue 1 threshold 3 32
21:29:45: mls qos srr-queue input dscp-map queue 2 threshold 1 16 17 18 19 20 21 22 23
21:29:45: mls gos 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 gos srr-queue output dscp-map queue 1 threshold 3 40 41 42 43 44 45 46 47
21:29:47: mls gos 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 gos srr-queue output dscp-map queue 4 threshold 3 0 1 2 3 4 5 6 7
21:29:49: no mls gos srr-queue input priority-queue 1
21:29:49: no mls qos srr-queue input priority-queue 2
21:29:50: mls qos srr-queue input bandwidth 90 10
21:29:50: no mls gos srr-queue input buffers
21:29:50: mls gos queue-set output 1 buffers 10 10 26 54
21:29:50: interface GigabitEthernet2/0/1
21:29:50: mls qos trust device cisco-phone
21:29:50: mls qos 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.
Defaults	Backup interface d	ebugging is disabled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(37)SE	Added vlan-load-balancing keyword.
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug back	cup command is the same as the no debug backup command.
member, you EXEC comm also can use		debugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack hable 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.

debug cluster

Use the **debug cluster** privileged EXEC command to enable debugging of cluster-specific events. Use the **no** form of this command to disable debugging.

debug cluster {discovery | events | extended | hsrp | http | ip [packet] | members | nat | neighbors | platform | snmp | vqpxy}

no debug cluster {discovery | events | extended | hsrp | http | ip [packet] | members | nat | neighbors | platform | snmp | vqpxy}

Syntax Description	discovery	Display cluster discovery debug messages.
	events	Display cluster event debug messages.
	extended	Display extended discovery debug messages.
	hsrp	Display the Hot Standby Router Protocol (HSRP) debug messages.
	http	Display Hypertext Transfer Protocol (HTTP) debug messages.
	ip [packet]	Display IP or transport packet debug messages.
	members	Display cluster member debug messages.
	nat	Display Network Address Translation (NAT) debug messages.
	neighbors	Display cluster neighbor debug messages.
	platform	Display platform-specific cluster debug messages.
	snmp	Display Simple Network Management Protocol (SNMP) debug messages.
	vqpxy	Display VLAN Query Protocol (VQP) proxy debug messages.
Command History	Privileged EXEC	Modification
oonniana motory	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug clu When you enable member, you can EXEC command.	available only on the cluster command switch stack or cluster command switch. Ster command is the same as the no debug cluster command. The debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You
		emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack enable debugging on a member switch without first starting a session.

Related	Commands
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ted Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show cluster	Displays the cluster status and a summary of the cluster to which the switch belongs.
	show cluster candidates	Displays a list of candidate switches when entered on the command switch.
	show cluster members	Displays information about cluster members when executed on the command switch.

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	n the command-line help strings, the redundancy keyword is not supported.	
Defaults	Debugging is disabled.		
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(46)EX	This command was introduced.	
Usage Guidelines	_	t1x command is the same as the no debug dot1x command. e 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 <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> 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	g Displays information about the types of debugging that are enabled.	
	show dot1x	Displays IEEE 802.1xstatistics, administrative status, and operational status for the switch or for the specified port.	

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	Debugging is disabl	ed.
Command Modes	Privileged EXEC	
Commond History	Deleges	
Command History	Release	Modification
Command History	Release 12.2(46)EX	Modification This command was introduced.
Command History		
	12.2(46)EX	
Command History Usage Guidelines	12.2(46)EXThe undebug dtp coWhen you enable demember, you can staEXEC command. Thalso can use the rem	This command was introduced.
	12.2(46)EXThe undebug dtp coWhen you enable demember, you can staEXEC command. Thalso can use the rem	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack
	12.2(46)EXThe undebug dtp coWhen you enable demember, you can staEXEC command. Thalso can use the rem	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack
Usage Guidelines	12.2(46)EX The undebug dtp co When you enable de member, you can sta EXEC command. Th also can use the rem master switch to ena	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session.

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}

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.	
Debugging is dis	abled.	
Privileged EXEC		
Release	Modification	
12.2(46)EX	This command was introduced.	
The undebug do	t1x command is the same as the no debug dot1x 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 <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Ye also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.		
Command	Description	
show debugging	Displays information about the types of debugging that are enabled.	
	authenticator errors events md5 packets peer sm Debugging is dis Privileged EXEC Release 12.2(46)EX The undebug do When you enable member, you can EXEC command also can use the r master switch to	

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]

· · · · · · · · · · · · · · · · · · ·				
all (C	Optional) Display all EtherChannel debug messages.			
detail (O	Optional) Display detailed EtherChannel debug messages.			
error (O	Optional) Display EtherChannel error debug messages.			
event (Optional) Debug major EtherChannel event messages.				
idb (C	Optional) Display PAgP interface descriptor block debug messages.			
Though visible in	n the command-line help strings, the linecard keyword is not supported.			
Debugging is disabled.				
Privileged EXEC				
Release	Modification			
12.2(46)EX	This command was introduced.			
If you do not spe	cify a keyword, all debug messages appear.			
•	ccify a keyword, all debug messages appear. herchannel command is the same as the no debug etherchannel command.			
	detail(C)error(C)event(C)idb(C)Though visible inDebugging is disPrivileged EXECRelease			

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 ilpower

Use the **debug ilpower** privileged EXEC command to enable debugging of the power controller and Power over Ethernet (PoE) system. Use the **no** form of this command to disable debugging.

debug ilpower {cdp | controller | event | ha | port | powerman | registries}

no debug ilpower {cdp | controller | event | ha | port | powerman | registries}

Syntax Description	cdp	Display PoE Cisco Discovery Protocol (CDP) debug messages.
	controller	Display PoE controller debug messages.
	event	Display PoE event debug messages.
	ha	Display PoE high-availability messages.
	port	Display PoE port manager debug messages.
	powerman	Display PoE power management debug messages.
	registries	Display PoE registries debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	When you enable debugg member, you can start a	ted only on PoE-capable switches. ging, it is enabled only on the stack master. To enable debugging on a stack session from the stack master by using the session <i>switch-number</i> privileged nter the debug command at the command-line prompt of the stack member. You
	also can use the remote c	command <i>stack-member-number LINE</i> privileged EXEC command on the stack debugging on a member switch without first starting a session.
Related Commands	Command	Description
	show controllers power	r inline Displays the values in the registers of the specified PoE controller.
	show power inline	Displays the power status for the specified PoE port or for all PoE ports.

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 1/0/2 .	
	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 6.	
	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(46)EX	This command was introduced.	
Usage Guidelines	If you do not specify a keyword, all debug messages appear.		
	The undebug interface command is the same as the no debug interface 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 <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.		

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

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

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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**}

Contra Deservited		
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	C
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
	12.2(40)EA	This command was introduced.
Usage Guidelines		p dhcp snooping command is the same as the no debug ip dhcp snooping command.
Usage Guidelines	The undebug i When you enab member, you ca EXEC comman also can use the	
Usage Guidelines Related Commands	The undebug i When you enab member, you ca EXEC comman also can use the	p dhcp snooping command is the same as the no debug ip dhcp snooping command. The debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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(46)EX	This command was introduced.

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

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(46)EX	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	
Donumo		•
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug ip igmp	o snooping command is the same as the no debug ip igmp snooping command.
	member, you can start EXEC command. The also can use the remot	ugging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You the command <i>stack-member-number LINE</i> privileged EXEC command on the stack le debugging on a member switch without first starting a session.
Related Commands	Command	Description
	debug platform ip igmp snooping	Displays information about platform-dependent IGMP snooping activity.

Displays information about the types of debugging that are enabled.

show debugging

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]

Syntax Description	all	(Optional) Display all LACP debug messages.
	event	(Optional) Display LACP event debug messages.
	fsm	(Optional) Display LACP finite state-machine debug messages.
	misc	(Optional) Display miscellaneous LACP debug messages.
	packet	(Optional) Display LACP packet debug messages.
Defaults	Debugging is di	sabled.
Command Modes	Privileged EXE	2
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug la	cp command is the same as the no debug lacp command.
Usage Guidelines	When you enabl member, you ca EXEC command also can use the	
Usage Guidelines	When you enabl member, you ca EXEC command also can use the	cp command is the same as the no debug lacp command. e debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged l. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack
	When you enabl member, you ca EXEC command also can use the master switch to	cp command is the same as the no debug lacp command. e debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged l. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack e enable debugging on a member switch without first starting a session. Description

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

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

Command History	Release	Modification
	12.2(46)EX	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(46)EX	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(46)EX	This command was introduced.

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

Related Commands	Command	Description
	<pre>mac address-table move update {receive transmit}</pre>	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.

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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}

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.
Privileged EXEC	
nelease	Modification
	Modification This command was introduced
12.2(46)EX	This command was introduced.
12.2(46)EX The undebug mor	
	errors idb-update info list notifications platform requests snmp Debugging is disat Privileged EXEC

Related Commands	ands Command Description	
	show debugging	Displays information about the types of debugging that are enabled.
	show monitor	Displays information about all SPAN and remote SPAN (RSPAN) sessions on the switch.

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}

Cuntary Description		
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	led.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines		This command was introduced. Ibg command is the same as the no debug mvrdbg command.
Usage Guidelines	The undebug mvrd When you enable do member, you can st EXEC command. Th also can use the rem	
	The undebug mvrd When you enable do member, you can st EXEC command. Th also can use the rem	Ibg command is the same as the no debug mvrdbg command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session.
Usage Guidelines	The undebug mvrd When you enable do member, you can sta EXEC command. Th also can use the rem master switch to ena	Ibg command is the same as the no debug mvrdbg command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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 a	arguments or keywords.
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- **Defaults** Debugging is disabled.
- Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(46)EX	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.

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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 dis	abled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(46)EX	Modification This command was introduced.
Command History Usage Guidelines	12.2(46)EX The undebug pa When you enable member, you can EXEC command also can use the r	
	12.2(46)EX The undebug pa When you enable member, you can EXEC command also can use the r	This command was introduced. gp command is the same as the no debug pagp command. e debugging, it is enabled only on the stack master. To enable debugging on a stack a start a session from the stack master by using the session <i>switch-number</i> privileged . Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack
Usage Guidelines	12.2(46)EX The undebug pa When you enable member, you can EXEC command also can use the r master switch to	This command was introduced. gp command is the same as the no debug pagp command. e debugging, it is enabled only on the stack master. To enable debugging on a stack a start a session from the stack master by using the session <i>switch-number</i> privileged . Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack enable debugging on a member switch without first starting a session. 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 | stack | warn}

no debug platform acl {all | exit | label | main | stack | warn}

Syntax Description	all	Display all ACL manager debug messages.
Oyntax Description		Display ACL exit-related debug messages.
		Display ACL label-related debug messages.
		Display the main or important ACL debug messages.
		Display ACL warning-related debug messages.
	w ut ti	Display NOL waining folded doodg messages.
Note	Though visible supported.	e in the command-line help strings, the racl , stack , vacl , and vlmap keywords are not
Defaults	Debugging is a	disabled.
Command Modes	Privileged EX	EC
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug	platform acl command is the same as the no debug platform acl command.
	When you ena	ble debugging, it is enabled only on the stack master. To enable debugging on a stack
	member, you c EXEC comma also can use th	can start a session from the stack master by using the session <i>switch-number</i> privileged nd. Then enter the debug command at the command-line prompt of the stack member. You e remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack to enable debugging on a member switch without first starting a session.
Related Commands	member, you c EXEC comma also can use th	can start a session from the stack master by using the session <i>switch-number</i> privileged nd. Then enter the debug command at the command-line prompt of the stack member. You e remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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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Defaults	Platform backup	interface debugging	is disabled.
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Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(46)EX	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(46)EX	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.

debug platform configuration

Use the **debug platform configuration** privileged EXEC command to enable debugging of configuration file activity across the stack. Use the **no** form of this command to disable debugging.

debug platform configuration {all | reception | transmission}

no debug platform configuration {all | reception | transmission}

Syntax Description	all	Display debug messages for all configuration file transmission and reception events
		throughout the stack.
	reception	Display debug messages for configuration file reception from other stack members.
	transmission	Display debug messages for configuration file transmission to other stack members.
Defaults	Debugging is di	sabled.
Command Modes	Privileged EXE	C
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug n	
	command. When you enab member, you ca EXEC command also can use the	latform configuration command is the same as the no debug platform configuration le debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session.

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 | 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 | 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.
	software-fwd-q	Debug packets received by the software forwarding queue.
	stp-q	Debug packets received by the Spanning Tree Protocol (STP) queue.

<u>Note</u>

Though visible in the command-line help strings, the **routing-protocol-Q** and **rpffail-q** keywords are not supported.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Release Modification 12.2(46)EX This command was introduced.

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 stack-related 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.
	rpc	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(46)EX	This command was introduced.
Usage Guidelines		This command was introduced. ot1x command is the same as the no debug platform dot1x command.
Usage Guidelines	The undebug platform d When you enable debuggi member, you can start a se EXEC command. Then ent also can use the remote co	ot1x command is the same as the no debug platform dot1x command. ng, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You
Usage Guidelines	The undebug platform de When you enable debuggi member, you can start a se EXEC command. Then ent also can use the remote co master switch to enable de	ot1x command is the same as the no debug platform dot1x command. ng, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You mmand <i>stack-member-number LINE</i> privileged EXEC command on the stack

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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 dis	sabled.	
Command Modes	Privileged EXEC	C	
Command History	Release	Modification	
	12.2(46)EX	This command was introduced.	
Usage Guidelines	The undebug platform etherchannel command is the same as the no debug platform etherchannel 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 <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.		
	also can use the	remote command stack-member-number LINE privileged EXEC command on the stack	
Related Commands	also can use the	remote command stack-member-number LINE privileged EXEC command on the stack	

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 disa	ıbled.	
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	10.0(46) EX		
	12.2(46)EX	This command was introduced.	
Usage Guidelines	If you do not spec	rify a keyword, all forwarding TCAM manager debug messages appear.	
Usage Guidelines	If you do not spec		
Usage Guidelines	If you do not spec The undebug pla command. When you enable member, you can EXEC command. also can use the re	cify a keyword, all forwarding TCAM manager debug messages appear. tform forw-tcam command is the same as the no debug platform forw-tcam debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You	
Usage Guidelines Related Commands	If you do not spec The undebug pla command. When you enable member, you can EXEC command. also can use the re	cify a keyword, all forwarding TCAM manager debug messages appear. tform forw-tcam command is the same as the no debug platform forw-tcam debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack	

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debug platform frontend-controller

Use the **debug platform frontend-controller** privileged EXEC command to enable debugging of front-end controller activity. Use the **no** form of this command to disable debugging.

debug platform frontend-controller {all | image | led | manager | poe | register | thermal}

no debug platform frontend-controller {all | image | led | manager | poe | register | thermal}

Syntax Description	all	Display all the debug messages for front-end controller.		
	image	Display Image Manager debug messages.		
	led	Display LED debug messages.		
	manager	Display front-end-controller manager debug messages.		
	poe	Display Power over Ethernet (PoE) debug messages.		
	register	Display Register Access debug messages.		
	thermal	Display thermal debug messages.		
Defaults	Debugging is c	lisabled.		
Command Modes	Privileged EXI	EC		
Command History	Release	Modification		
	12.2(46)EX	This command was introduced.		
Usage Guidelines	This command	is only supported on Power over Ethernet switches.		
Usage Guidelines	The undebug	is only supported on Power over Ethernet switches. platform frontend-controller command is the same as the no debug platform roller command.		

Related Commands	Command	Description
	show platform frontend-controller	Displays counter and status information for the front-end controller manager and subordinate applications, and displays the hardware and software information for the front-end controller.
	show debugging	Displays information about the types of debugging that are enabled.

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	
	12.2(46)EX	This command was introduced.	
Usage Guidelines	The undebug platform i	p dhcp command is the same as the no debug platform ip dhcp 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 <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> 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 ip dhcp snooping	Displays the DHCP snooping configuration.	
	show ip dhcp snooping binding	Displays the DHCP snooping binding information.	

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}

ntax 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.
	SVI I LA J	• 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>Note</u>

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

Defaults	Debugging is disabled	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	 The undebug platform ip igmp snooping command is the same as the no debug platform ip igmp snooping 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
	debug ip igmp snooping	Displays information about platform-independent IGMP snooping activity.
	show debugging	Displays information about the types of debugging that are enabled.

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 | stack}

no debug platform led {generic | signal | stack}

Syntax Description	generic	Display LED generic action debug messages.	
	8	Display LED signal bit map debug messages.	
	8	Display LED stack action debug messages.	
Note	Though visible	e in the command-line help strings, the stack keyword is not supported.	
efaults	Debugging is c	disabled.	
Command Modes	Privileged EXI	EC	
Command History	Release	Modification	
	12.2(46)EX	This command was introduced.	
Jsage Guidelines	The undebug platform led command is the same as the no debug platform led 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 <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You		
	also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack		
	master switch	to enable debugging on a member switch without first starting a session.	
Related Commands	Command	Description	

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}

Suntax Departmention	aaina	Dienlay MAC address sains debug messages
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.
Command Modes	Privileged EXEC	Modification
· · · · · · · ·	12.2(46)EX	This command was introduced.
Usage Guidelines	When you enable member, you can s	tform matm command is the same as the no debug platform matm command. debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You
		mote command stack-member-number LINE privileged EXEC command on the stack

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 | stackchg | usererr}

no debug platform messaging application {all | badpak | cleanup | events | memerr | messages | stackchg | 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.
	stackchg	Display stack-change debug messages.
	usererr	Display user-error debug messages.
Note	Though visible in t	he command-line help strings, the stackchg keyword is not supported.
Defaults	Debugging is disab	led.
Command Modes	Privileged EXEC	
	C	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug platf messaging applica	form messaging application command is the same as the no debug platform tion command.
	member, you can st EXEC command. T also can use the ren	bebugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack mable 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.

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 cablediag	Display PHY automatic medium-dependent interface crossover (auto-MDIX) debug messages.		
		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 link-status read sfp show-controller speed write xenpak	Display PHY initialization-sequence debug messages.		
		Display PHY link-status debug messages.		
		Display PHY-read debug messages.		
		Display PHY small form-factor pluggable (SFP) modules debug messages.		
		Display PHY show-controller debug messages.		
		Display PHY speed-change debug messages.		
		Display PHY-write debug messages. Display PHY XENPAK debug messages		
Defaults	Debugging is disabled.			
Command Modes	Privileged EXEC			
Command History	Release	Modification		
	12.2(46)EX	This command was introduced.		

Command History	Kelease	Modification
	12.2(46)EX	This command was introduced.

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

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 | stack-manager | 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 | stack-manager | sync | vlans}

ax Description	all	Display all port-manager debug messages.
	counters	Display counters for remote procedure call (RPC) debug messages.
	errdisable	Display error-disabled related-events debug messages.
	etherchnl	Display EtherChannel related-events debug messages.
	exceptions	Display system exception debug messages.
	hpm-events	Display platform port-manager event debug messages.
	idb-events	Display interface descriptor block (IDB) related-events debug messages.
	if-numbers	Display interface-number translation-event debug messages.
	ios-events	Display Cisco IOS event debug messages.
	link-status	Display interface link-detection event debug messages.
	platform	Display port-manager function-event debug messages.
	pm-events	Display port manager event debug messages.
	pm-span	Display port manager Switched Port Analyzer (SPAN) event debug messages
	pm-vectors [detail]	Display port-manager vector-related-event debug messages. The keyword has this meaning:
		• detail —Display vector-function details.
	rpc [general oper-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.
		• vp-events —(Optional) Display virtual ports related-events RP messages
	soutput-vectors	Display IDB output vector event debug messages.
	stack-manager	Display stack-manager related-events debug messages.

	sync	Display operational synchronization and VLAN line-state event debug messages.
	vlans	Display VLAN creation and deletion event debug messages.
Note	Though visible in the	command-line help strings, the stack-manager keyword is not supported.
Defaults	Debugging is disabled	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Jsage Guidelines	The undebug platform pm command is the same as the no debug platform pm 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 <i>switch-number</i> privilege EXEC command. Then enter the debug command at the command-line prompt of the stack member. Ye also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the star master switch to enable debugging on a member switch without first starting a session.	
Related Commands	Command	Description

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 | stack | write}

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

Syntax Description	interrupt	Display port-ASIC interrupt-related function debug messages.
	periodic	Display port-ASIC periodic-function-call debug messages.
	read	Display port-ASIC read debug messages.
	stack	Display stacking-related function 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 disable	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
	12.2(40)EX	This command was introduced.
lsage Guidelines		This command was introduced. This command was introduced. This command was introduced.
Usage Guidelines	The undebug platfor When you enable deb member, you can star EXEC command. The also can use the remo	
Usage Guidelines Related Commands	The undebug platfor When you enable deb member, you can star EXEC command. The also can use the remo	Propert-asic command is the same as the no debug platform port-asic command. bugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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}

Syntax Description	add	
		Display secure address addition debug messages.
	aging	Display secure address aging debug messages.
	all	Display all port-security debug messages.
	delete	Display secure address deletion debug messages.
	errors	Display port-security error debug messages.
	rpc	Display remote procedure call (RPC) debug messages.
	warnings	Display warning debug messages.
Defaults	Debugging is disable	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines		
Usage Guidelines	The undebug platfo command.	rm port-security command is the same as the no debug platform port-security
Usage Guidelines	command. When you enable del member, you can stat EXEC command. The also can use the remo	rm port-security command is the same as the no debug platform port-security bugging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack ble debugging on a member switch without first starting a session.
Usage Guidelines Related Commands	command. When you enable del member, you can stat EXEC command. The also can use the remo	bugging, it is enabled only on the stack master. To enable debugging on a stack et a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You the command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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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
eennana motory	norouoo	Modification
	12.2(46)EX	This command was introduced.
	12.2(46)EX	
	12.2(46)EX The undebug plat command. When you enable of member, you can se EXEC command. The second secon	This command was introduced. form qos-acl-tcam command is the same as the no debug platform qos-acl-tcam debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You
Usage Guidelines Related Commands	12.2(46)EX The undebug plat command. When you enable of member, you can se EXEC command. The second secon	This command was introduced. form qos-acl-tcam command is the same as the no debug platform qos-acl-tcam debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You mote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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 d	isabled.
Command Modes	Privileged EXE	C
Command History	Release	Modification
Command History	Release 12.2(46)EX	Modification This command was introduced.
Command History Usage Guidelines	12.2(46)EX	This command was introduced.
· .	The undebug p resource-mana When you enab member, you ca EXEC comman also can use the	This command was introduced.
· .	The undebug p resource-mana When you enab member, you ca EXEC comman also can use the	This command was introduced. Platform resource-manager command is the same as the no debug platform ager command. The debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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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
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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(46)EX	This command was introduced.

Usage GuidelinesThe undebug platform snmp command is the same as the no debug platform snmp 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.

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.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(46)EX	This command was introduced.

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

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debug platform stack-manager

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

debug platform stack-manager {all | rpc | sdp | sim | ssm | trace}

no debug platform stack-manager {all | rpc | sdp | sim | ssm | trace}

Syntax Description	all	Display all stack manager debug messages.
	rpc	Display stack manager remote procedure call (RPC) usage debug messages.
	sdp	Display the Stack Discovery Protocol (SDP) debug messages.
	sim	Display the stack information module debug messages.
	ssm	Display the stack state-machine debug messages.
	trace	Trace the stack manager entry and exit debug messages.
Defaults	Debugging is d	isabled.
Command Modes	Privileged EXE	C
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug p stack-manager	platform stack-manager command is the same as the no debug platform command.
	•	le debugging, it is enabled only on the stack master. To enable debugging on a stack
	EXEC comman also can use the	an start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session.
Related Commands	EXEC comman also can use the	d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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}

ormand Description and Display an supervision-ASIC error debug messages. errors Display the supervison-ASIC receive debug messages. receive Display the supervison-ASIC receive debug messages. send Display the supervison-ASIC send debug messages. command Modes Privileged EXEC Command History Release Modification 12.2(46)EX This command was introduced. Usage Guidelines The undebug platform supervisor-asic command is the same as the no debug platform supervisor-asic 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 by using the session. Related Commands Command Description show debugging on a member switch without first starting a session.	Syntax Description	all	Display all supervisor-ASIC event debug messages.
receive Display the supervisor-ASIC receive debug messages. send Display the supervisor-ASIC send debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(46)EX This command was introduced. Usage Guidelines The undebug platform supervisor-asic command is the same as the no debug platform supervisor-asic 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 <i>witch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Yee also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Description	Syntax Description		
send Display the supervisor-ASIC send debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(46)EX This command was introduced. Usage Guidelines The undebug platform supervisor-asic command is the same as the no debug platform supervisor-asic 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			
Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(46)EX This command was introduced. Usage Guidelines The undebug platform supervisor-asic command is the same as the no debug platform supervisor-asic 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. Yo 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		receive	Display the supervisor-ASIC receive debug messages.
Command Modes Privileged EXEC Command History Release Modification 12.2(46)EX This command was introduced. Usage Guidelines The undebug platform supervisor-asic command is the same as the no debug platform supervisor-asic 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		send	Display the supervisor-ASIC send debug messages.
Command History Release Modification 12.2(46)EX This command was introduced. Usage Guidelines The undebug platform supervisor-asic command is the same as the no debug platform supervisor-asic 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	Defaults	Debugging is disabled	1.
Image 12.2(46)EX This command was introduced. Isage Guidelines The undebug platform supervisor-asic command is the same as the no debug platform supervisor-asic 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	Command Modes	Privileged EXEC	
Usage GuidelinesThe undebug platform supervisor-asic command is the same as the no debug platform supervisor-asic 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. Yo 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 CommandsCommandDescription	Command History	Release	Modification
supervisor-asic 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		12.2(46)EX	This command was introduced.
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. Yo 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 CommandsCommandDescription	Usage Guidelines		•
		member, you can star EXEC command. The also can use the remo t	t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack
· · · · · · · · · · · · · · · · · · ·	Related Commands	Command	Description
		show debugging	Displays information about the types of debugging that are enabled.

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	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug platfor command.	m sw-bridge command is the same as the no debug platform sw-bridge
Usage Guidelines	command. When you enable deb member, you can start EXEC command. The also can use the remo t	ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You
Usage Guidelines Related Commands	command. When you enable deb member, you can start EXEC command. The also can use the remo t	ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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

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.
	13 {acl {input output} qos}	Display Layer 3 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.
		• qos —Display classification and quality of service (QoS) 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	-	mand-line help strings, the 13 ipv6 { acl { input output } local qos and the 13 secondary keywords are not supported.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	
	12.2(10)211	This command was introduced.
Usage Guidelines	`	This command was introduced. am command is the same as the no debug platform tcam command.
Usage Guidelines	The undebug platform tc When you enable debuggin member, you can start a se EXEC command. Then ent also can use the remote co	
Usage Guidelines Related Commands	The undebug platform tc When you enable debuggin member, you can start a se EXEC command. Then ent also can use the remote co master switch to enable de	am command is the same as the no debug platform tcam command. ng, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You mmand <i>stack-member-number LINE</i> privileged EXEC command on the stack

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.
	<pre>rpc {events messages}</pre>	(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(46)EX	This command was introduced.
		This command was introduced. dld command is the same as the no debug platform udld command.
Usage Guidelines	The undebug platform u When you enable debuggi member, you can start a se EXEC command. Then en also can use the remote co	dld command is the same as the no debug platform udld command. ing, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You
	The undebug platform u When you enable debuggi member, you can start a se EXEC command. Then en also can use the remote co master switch to enable de	dld command is the same as the no debug platform udld command. ing, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack

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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.
Defaults	Debugging is disabled	l.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug platfor	m vlan command is the same as the no debug platform vlan command.
Usage Guidelines	When you enable deb member, you can start EXEC command. The also can use the remot	m vlan command is the same as the no debug platform vlan command. ugging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You re command <i>stack-member-number LINE</i> privileged EXEC command on the stack le debugging on a member switch without first starting a session.
Usage Guidelines Related Commands	When you enable deb member, you can start EXEC command. The also can use the remot	ugging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You be command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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.



Though visible in the command-line help strings, the scp and pvlan keywords are not supported.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History Release Modification 12.2(46)EX This command was introduced.

Usage Guidelines

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

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

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

Command History	Release	Modification
	12.2(46)EX	This command was introduced.

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

Syntax Description	11	
Cluster Booon buon	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 disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug qos-n	nanager command is the same as the no debug qos-manager command.
Usage Guidelines	When you enable de member, you can sta EXEC command. Th also can use the rem	bugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You
Usage Guidelines Related Commands	When you enable de member, you can sta EXEC command. Th also can use the rem	bugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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}

	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.	
Defaults	Debugging is disabled.		
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(46)EX	This command was introduced.	

Usage Guidelines

The **undebug spanning-tree command is the** same as the **no debug spanning-tree** 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.
	show spanning-tree	Displays spanning-tree state information.

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 (Optional) Display detailed BackboneFast debug messages.
	exceptions (Optional) Display spanning-tree BackboneFast-exception debug messages.
Defaults	Debugging is disabl	led.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug spanning-tree backbonefast command is the same as the no debug spanning-tree backbonefast 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 <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> 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.
	show spanning-tre	Displays spanning-tree state information.

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		Optional) Display the nonoptimized path for received BPDU debug messages.
	transmit (0	Optional) Display the nonoptimized path for sent BPDU debug messages.
Defaults	Debugging is disabl	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug spanning-tree bpdu command is the same as the no debug spanning-tree bpdu 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 <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> 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.
	show spanning-tre	e Displays spanning-tree state information.

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	(Optional) Display detailed optimized BPDU-handling debug messages.
	packet	(Optional) Display packet-level optimized BPDU-handling debug messages.
Defaults	Debugging is disa	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug spanning-tree bpdu-opt command is the same as the no debug spanning-tree bpdu-opt command.	
member, you can start a session from the stack master by EXEC command. Then enter the debug command at the co also can use the remote command <i>stack-member-number</i>		debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You mote command <i>stack-member-number LINE</i> privileged EXEC command on the stack nable 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.
	show spanning-t	ree Displays spanning-tree state information.

debug spanning-tree mstp

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}

Syntax Description	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.
	pm	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.
Defaults	Debugging is di	sabled.
Command Modes	Privileged EXE	2
Command History	Release	Modification
	12.2(46)EX	This command was introduced.

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

Syntax Description		
	all	Display all spanning-tree switch debug messages.
	errors	Display debug messages for the interface between the spanning-tree software
		module and the port manager software module.
	flush	Display debug messages for the shim flush operation.
	general	Display general event debug messages.
	helper	Display spanning-tree helper-task debug messages. Helper tasks handle bulk spanning-tree updates.
	pm	Display port-manager event debug messages.
	rx	Display received bridge protocol data unit (BPDU) handling debug messages. The keywords have these meanings:
		• 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.
	state	Display spanning-tree port state change debug messages;
	tx [decode]	Display sent BPDU handling debug messages. The keyword has this meaning:
		• decode —(Optional) Display decoded sent packets.
	uplinkfast	Display uplinkfast packet transmission debug messages.
efaults	Debugging is d	isabled.
ommand Modes	Privileged EXE	C.
ommand History	Release	Modification

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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.
	show spanning-tree	Displays spanning-tree state information.

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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 (C	Optional) Display spanning-tree UplinkFast-exception debug messages.
Defaults	Debugging is disable	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug spanning-tree uplinkfast command is the same as the no debug spanning-tree uplinkfast 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 <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> 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.
	show spanning-tree	e Displays spanning-tree state information.

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}

Syntax Description	badpmcookies	Display debug messages for VLAN manager incidents of bad port manager cookies.
	cfg-vlan {bootup cli}	Display config-vlan debug messages. The keywords have these meanings:
		• 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.
	ifs	See the debug sw-vlan ifs command.
	management	Display debug messages for VLAN manager management of internal VLANs.
	mapping	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.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	The undebug sw-vlan co	ommand is the same as the no debug sw-vlan command.
	member, you can start a s EXEC command. Then er also can use the remote c	ging, it is enabled only on the stack master. To enable debugging on a stack session from the stack master by using the session <i>switch-number</i> privileged neter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack lebugging 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.
	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(46)EX	This command was introduced.
Usage Guidelines	The undebug sw-vlan	ifs command is the same as the no debug sw-vlan ifs 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 <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.	
	verification word and t contains most of the do	e read operation, Operation 1 reads the file header, which contains the header he 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}

Syntax Description	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.
Defaults Command Modes	Debugging is disabled. Privileged EXEC	
Command History	Release	Modification
	12.2(46)EX	This command was introduced.
Usage Guidelines	command. When you enable debugg member, you can start as EXEC command. Then en also can use the remote c	btification command is the same as the no debug sw-vlan notification ging, it is enabled only on the stack master. To enable debugging on a stack session from the stack master by using the session <i>switch-number</i> privileged atter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack how region
	EXEC command. Then er also can use the remote c	nter the debug command at the command-line prompt of the stack member. Y

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 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
Command History	12.2(46)EX	This command was introduced.
	12.2(40)EA	
Usage Guidelines	The undebug sw-vlan vt	p command is the same as the no debug sw-vlan vtp command.
	member, you can start a s EXEC command. Then er also can use the remote co	ing, it is enabled only on the stack master. To enable debugging on a stack session from the stack master by using the session <i>switch-number</i> privileged ater the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack lebugging on a member switch without first starting a session.

If no further parameters are entered after the **pruning keyword**, VTP pruning debugging messages appear. They are generated by the VTP_PRUNING_LOG_NOTICE, VTP_PRUNING_LOG_INFO, VTP_PRUNING_LOG_DEBUG, VTP_PRUNING_LOG_ALERT, and VTP_PRUNING_LOG_WARNING 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	events	Display debug messages for UDLD process events as they occur.		
	packets	Display 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 disabled.			
Command Modes	Privileged EXI	EC		
Command History	Release	Modification		
	12.2(46)EX	This command was introduced.		
Usage Guidelines	When you enal member, you c EXEC commar also can use the	udld command is the same as the no debug udld command. ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged ad. Then enter the debug command at the command-line prompt of the stack member. You be remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack to enable debugging on a member switch without first starting a session.		
Usage Guidelines	When you enal member, you c EXEC commar also can use the master switch t	ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged ad. Then enter the debug command at the command-line prompt of the stack member. You e remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack		
Usage Guidelines	When you enal member, you c EXEC commar also can use the master switch t For debug udle	ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged ad. Then enter the debug command at the command-line prompt of the stack member. You e remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack to enable debugging on a member switch without first starting a session.		
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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 transmission attempts and the outcome

For debug udld registries, these categories of debugging messages appear:

- Sub-block creation
- 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 disable	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(46)EX	Modification This command was introduced.
	12.2(46)EX	
Command History Usage Guidelines	The undebug vqpc When you enable de member, you can sta EXEC command. Th also can use the rem	This command was introduced. command is the same as the no debug vqpc command. bugging, it is enabled only on the stack master. To enable debugging on a stack at a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You
	The undebug vqpc When you enable de member, you can sta EXEC command. Th also can use the rem	This command was introduced. command is the same as the no debug vqpc command. bugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack