



Cisco Catalyst Blade Switch 3130 for Dell Debug Commands

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



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

debug authentication

Use the **debug authentication** privileged EXEC command to enable debugging of the authentication settings on an interface. Use the **no** form of this command to disable debugging.

debug authentication {all | errors | events | sync | feature [all] [acct] [auth_fail_vlan]
 [auth_policy] [autocfg] [critical] [dhcp] [guest_vlan] [mab_pm] [mda] [multi_auth]
 [switch_pm] [switch_sync] [vlan_assign] [voice] [webauth] [all | errors | events]}

no debug authentication {all | errors | events | sync | feature [all] [acct] [auth_fail_vlan] [auth_policy] [autocfg] [critical] [dhcp] [guest_vlan] [mab_pm] [mda] [multi_auth] [switch_pm] [switch_sync] [vlan_assign] [voice] [webauth] [all | errors | events]}

Syntax Description	acct	(Optional) Display authentication manager accounting information.
	all	(Optional) Display all authentication manager debug messages.
	auth_fail_vlan	(Optional) Display authentication manager errors for the restricted VLAN.
	auth_policy	(Optional) Display authentication policy messages.
	autocfg	(Optional) Display autoconfiguration authentication manager debug messages.
	critical	(Optional) Display the inaccessible authentication bypass messages.
		Note The inaccessible authentication bypass feature is also referred to as critical authentication or the authentication, authorization, and accounting (AAA) fail policy.
	dhcp	(Optional) Display authentication manager debug messages on DHCP dynamic address-enable interfaces.
	errors	(Optional) Display all authentication manager error debug messages.
	events	(Optional) Display all authentication manager event debug messages, including registry and miscellaneous events.
	feature	(Optional) Display authentication manager feature debug messages
	guest_vlan	(Optional) Display guest VLAN authentication manager messages.
	mab_pm	(Optional) Display MAC authentication manager bypass authentication debug messages.
	mda	(Optional) Display multidomain authentication manager debug messages.
	multi_auth	(Optional) Display multi-authentication manager debug authentication messages.
	switch_pm	(Optional) Display switch port manager messages.
	switch_sync	(Optional) Display synchronization messages between the switch, the authentication server, and the connected devices.
	sync	(Optional) Display operational synchronization authentication manager debug messages.
	vlan_assign	(Optional) Display the VLAN-assignment debug messages.
	voice	(Optional) Display the voice-VLAN debug messages.
	webauth	(Optional) Display web authentication manager debug messages.

Defaults Authentication debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(50)SE	This command was introduced.

Usage Guidelines The **undebug authentication** command is the same as the **no debug authentication** 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 and then entering the **debug authentication** 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 stack member.

Related Commands	Command	Description
	authentication control-direction	Configures the port mode as unidirectional or bidirectional.
	authentication event	Sets the action for specific authentication events.
	authentication fallback	Configures a port to use web authentication as a fallback method for clients that do not support IEEE 802.1x authentication.
	authentication host-mode	Sets the authorization manager mode on a port.
	authentication open	Enables or disables open access on a port.
	authentication order	Sets the order of authentication methods used on a port.
	authentication periodic	Enables or disables reauthentication on a port.
	authentication port-control	Enables manual control of the port authorization state.
	authentication priority	Adds an authentication method to the port-priority list.
	authentication violation	Configures the violation modes that occur when a new device connects to a port or when a new device connects to a port after the maximum number of devices are connected to that port.
	show authentication	Displays information about authentication manager events on the switch.

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(40)EX1	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.

On a stacking-capable switch, 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
21:29:42: no mls qos srr-queue output cos-map

21:29:42: mls qos srr-queue input cos-map queue 1 threshold 3 0 21:29:42: mls qos srr-queue input cos-map queue 1 threshold 2 1

```
21:29:42: mls qos srr-queue input cos-map queue 2 threshold 1 2
21:29:42: mls qos srr-queue input cos-map queue 2 threshold 2 4 6 7
21:29:43: mls qos srr-queue input cos-map queue 2 threshold 3 3 5
21:29:43: mls gos srr-queue output cos-map queue 1 threshold 3 5
21:29:43: mls qos srr-queue output cos-map queue 2 threshold 3 3 6 7
21:29:44: mls 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 gos srr-queue input dscp-map
21:29:44: no mls qos srr-queue output dscp-map
21:29:44: mls gos 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 gos srr-queue input dscp-map queue 2 threshold 1 16 17 18 19 20 21 22 23
21:29:45: mls qos srr-queue input dscp-map queue 2 threshold 2 33 34 35 36 37 38 39 48
21:29:46: mls qos srr-queue input dscp-map queue 2 threshold 2 49 50 51 52 53 54 55 56
21:29:46: mls gos srr-queue input dscp-map queue 2 threshold 2 57 58 59 60 61 62 63
21:29:46: mls qos srr-queue input dscp-map queue 2 threshold 3 24 25 26 27 28 29 30 31
21:29:47: mls qos srr-queue input dscp-map queue 2 threshold 3 40 41 42 43 44 45 46 47
21:29:47: mls gos srr-queue output dscp-map queue 1 threshold 3 40 41 42 43 44 45 46 47
21:29:47: mls qos srr-queue output dscp-map queue 2 threshold 3 24 25 26 27 28 29 30 31
21:29:47: mls qos srr-queue output dscp-map queue 2 threshold 3 48 49 50 51 52 53 54 55
21:29:48: mls qos srr-queue output dscp-map queue 2 threshold 3 56 57 58 59 60 61 62 63
21:29:48: mls qos srr-queue output dscp-map queue 3 threshold 3 16 17 18 19 20 21 22 23
21:29:48: mls qos 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 qos srr-queue input priority-queue 1
21:29:49: no mls qos srr-queue input priority-queue 2
21:29:50: mls gos srr-queue input bandwidth 90 10
21:29:50: no mls gos srr-gueue input buffers
21:29:50: mls qos 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}

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-	Display backup interface VLAN load balancing.
balancing	
Backup interface of	debugging is disabled.
Privileged EXEC	
Release	Modification
12.2(40)EX1	This command was introduced.
The undebug bac	kup command is the same as the no debug backup command.
On a stacking-capable switch, when you enable debugging, it is enabled only on the stack enable debugging on a stack member, you can start a session from the stack master by usin <i>switch-number</i> privileged EXEC command. Then enter the debug command at the comma prompt of the stack member. You also can use the remote command <i>stack-member-numb</i> privileged EXEC command on the stack master switch to enable debugging on a member so first starting a session.	
	errors events vlan-load- balancing Backup interface of Privileged EXEC Release 12.2(40)EX1 The undebug bac On a stacking-cap enable debugging <i>switch-number</i> pri

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

debug cisp

Use the **debug cisp** global configuration command to enable debugging message exchanges and events on a Client Information Signalling Protocol (CISP)-enabled interface.Use the **no** form of this command to disable debugging.

debug cisp [all | errors | events | packets | sync]

no debug cisp [initialization | interface-configuration | rpc]

Syntax Description	all	Display all CISP debug messages.
	errors	Display CISP debug messages.
	events	Display CISP event debug messages.
	packets	Display CISP packet debug messages.
	sync	Display CISP operational synchronization debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(50)SE	Modification This command was introduced.
Command History		
	12.2(50)SE	This command was introduced.
Command History Related Commands	12.2(50)SE	This command was introduced. Description

debug dot1x

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

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

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

Syntax Description	all	Display all IEEE 802.1x authentication debug messages.
	errors	Display IEEE 802.1x error debug messages.
	events	Display IEEE 802.1x event debug messages.
	feature	Display IEEE 802.1x feature debug messages.
	packets	Display IEEE 802.1x packet debug messages.
	registry	Display IEEE 802.1x registry invocation debug messages.
	state-machine	Display state-machine related-events debug messages.
Note	Though visible in	the command-line help strings, the redundancy keyword is not supported.
Command Default	Debugging is dis	abled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
·····,	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug do	t1x command is the same as the no debug dot1x command.
	On a stacking-capable switch, 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 sessio <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 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 disab	oled.	
	00 0		
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(40)EX1	This command was introduced.	
Usage Guidelines	The undebug dtp	command is the same as the no debug dtp command.	
	On a stacking-capable switch, 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.		
	mot starting a sess		
Related Commands	Command	Description	
	show debugging	Displays information about the types of debugging that are enabled.	
	show dtp	Displays DTP information for the switch or for a specified interface.	
		provide a second s	

debug eap

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

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

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

Syntax Description	all	Display all EAP debug messages.	
	authenticator	Display authenticator debug messages.	
	errors	Display EAP error debug messages.	
	events	Display EAP event debug messages.	
	md5	Display EAP-MD5 debug messages.	
	packets	Display EAP packet debug messages.	
	peer	Display EAP peer debug messages.	
	sm	Display EAP state-machine related-events debug messages.	
Command Default	Debugging is dis	abled.	
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(40)EX1	This command was introduced.	
Usage Guidelines	C	t1x command is the same as the no debug dot1x command.	
	On a stacking-capable switch, 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	g Displays information about the types of debugging that are enabled.	
	show eap	Displays EAP registration and session information for the switch or for the specified port.	

Displays EtherChannel information for the channel.

debug etherchannel

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

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

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

Syntax Description	all (Optiona	al) Display all EtherChannel debug messages.	
	detail (Optiona	al) Display detailed EtherChannel debug messages.	
	error (Optiona	al) Display EtherChannel error debug messages.	
	event (Optiona	al) Debug major EtherChannel event messages.	
	idb (Optiona	al) Display PAgP interface descriptor block debug messages.	
Note	Though visible in the c	command-line help strings, the linecard keyword is not supported.	
Defaults	Debugging is disabled.		
Command Modes	Privileged EXEC		
	Thineged EALC		
Command History	Release	Modification	
	12.2(40)EX1	This command was introduced.	
Jsage Guidelines	If you do not specify a	keyword, all debug messages appear.	
Jouge Guidennes	The undebug etherchannel command is the same as the no debug etherchannel command.		
	On a stacking-capable switch, 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 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.	
		Displays information about the types of debugging that are enabled.	

show etherchannel

debug fastethernet

Use the **debug fastethernet** privileged EXEC command to enable debugging of the Ethernet management port. Use the **no** form of this command to disable debugging.

debug fastethernet {af | events | packets}

no debug fastethernet {af | events | packets}

Syntax Description	af	Display Ethernet management port software-address-filter debug messages.
Oyntax Description	events	Display Ethernet management port software-address-inter debug messages.
	packets	Display Ethernet management port packet debug messages.
Defaults	Debugging	is disabled.
Command Modes	Privileged I	EXEC
Command History	Release	Modification
	12.2(40)EX	
	12.2(40)E2	X1 This command was introduced.
Usage Guidelines	The undeb	
Usage Guidelines	The undeb {af events On a stacki enable debu <i>switch-num</i> prompt of t	ug fastethernet {af events packets} command is the same as the no debug fastethernet s packets} command. ng-capable switch, when you enable debugging, it is enabled only on the stack master. To agging on a stack member, you can start a session from the stack master by using the session <i>uber</i> privileged EXEC command. Then enter the debug command at the command-line he stack member. You also can use the remote command <i>stack-member-number LINE</i> EXEC command on the stack master switch to enable debugging on a member switch without
	The undeb { af events On a stacki enable debu <i>switch-num</i> prompt of t privileged H	ug fastethernet {af events packets} command is the same as the no debug fastethernet s packets} command. ng-capable switch, when you enable debugging, it is enabled only on the stack master. To ugging on a stack member, you can start a session from the stack master by using the session <i>uber</i> privileged EXEC command. Then enter the debug command at the command-line he stack member. You also can use the remote command <i>stack-member-number LINE</i> EXEC command on the stack master switch to enable debugging on a member switch without g a session.
Usage Guidelines Related Commands	The undeb { af events On a stacki enable debu <i>switch-num</i> prompt of t privileged F first starting	ug fastethernet {af events packets} command is the same as the no debug fastethernet s packets} command. ng-capable switch, when you enable debugging, it is enabled only on the stack master. To ugging on a stack member, you can start a session from the stack master by using the session <i>uber</i> privileged EXEC command. Then enter the debug command at the command-line he stack member. You also can use the remote command <i>stack-member-number LINE</i> EXEC command on the stack master switch to enable debugging on a member switch without g a session.

fastethernet

debug ip dhcp snooping

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

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

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

This command is supported only if your switch is running the IP services feature set.

Syntax Description	mac-address	Display debug messages for a DHCP packet with the specified MAC address.
eynax 2000nprion	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(40)EX1	This command was introduced.
Usage Guidelines		p dhcp snooping command is the same as the no debug ip dhcp snooping command. capable switch, when you enable debugging, it is enabled only on the stack master. To
	enable debuggi switch-number prompt of the s	ng on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line tack member. You also can use the remote command <i>stack-member-number LINE</i> C command on the stack master switch to enable debugging on a member switch without
Related Commands	enable debuggi <i>switch-number</i> prompt of the s privileged EXE	ng on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line tack member. You also can use the remote command <i>stack-member-number LINE</i> C command on the stack master switch to enable debugging on a member switch without

debug ip verify source packet

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

debug ip verify source packet

no debug ip verify source packet

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

 Release
 Modification

 12.2(40)EX1
 This command was introduced.

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

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

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 64.
	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(40)EX1	This command was introduced.
Usage Guidelines	If you do not specify a l	keyword, all debug messages appear.
	The undebug interface	command is the same as the no debug interface command.
	enable debugging on a s switch-number privilege prompt of the stack mer	witch, when you enable debugging, it is enabled only on the stack master. To tack member, you can start a session from the stack master by using the session ed EXEC command. Then enter the debug command at the command-line nber. You also can use the remote command <i>stack-member-number LINE</i> and on the stack master switch to enable debugging on a member switch without
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show etherchannel	Displays EtherChannel information for the channel.

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

debug ip igmp filter

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

debug ip igmp filter

no debug ip igmp filter

Defaults Debugging is disabled.

Command Modes Privileged EXEC

 Release
 Modification

 12.2(40)EX1
 This command was introduced.

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

On a stacking-capable switch, 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(40)EX1	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]

0 (D : /:		
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 disable	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug ip ign	np snooping command is the same as the no debug ip igmp snooping command.
Usage Guidelines	On a stacking-capab enable debugging on <i>switch-number</i> privit prompt of the stack	le switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session leged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mmand on the stack master switch to enable debugging on a member switch without
	On a stacking-capab enable debugging on <i>switch-number</i> privit prompt of the stack privileged EXEC con	I be a start of the start of the start of the start master. To a start member, you can start a session from the stark master by using the session leged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stark-member-number LINE</i> mmand on the stark master switch to enable debugging on a member switch without on.
Usage Guidelines Related Commands	On a stacking-capab enable debugging on <i>switch-number</i> privil prompt of the stack of privileged EXEC con first starting a session	It is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session leged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mmand on the stack master switch to enable debugging on a member switch without on.
	On a stacking-capab enable debugging on <i>switch-number</i> privil prompt of the stack privileged EXEC con first starting a sessio	I be a start of the start of the start of the start master. To a start member, you can start a session from the stark master by using the session leged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stark-member-number LINE</i> mmand on the stark master switch to enable debugging on a member switch without on.

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 disa	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug lac	p command is the same as the no debug lacp command.
	0	able switch, when you enable debugging, it is enabled only on the stack master. To
	enable debugging <i>switch-number</i> pr prompt of the state	on a stack member, you can start a session from the stack master by using the session ivileged EXEC command. Then enter the debug command at the command-line ck member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
Related Commands	enable debugging switch-number pr prompt of the stac privileged EXEC	on a stack member, you can start a session from the stack master by using the session ivileged EXEC command. Then enter the debug command at the command-line ck member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
Related Commands	enable debugging switch-number pr prompt of the stac privileged EXEC first starting a ses	on a stack member, you can start a session from the stack master by using the session ivileged EXEC command. Then enter the debug command at the command-line ek member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without sion.

debug IIdp packets

Use the **debug lldp packets** privileged EXEC command to enable debugging of Link Layer Discovery Protocol (LLDP) packets. Use the **no** form of this command to disable debugging.

debug lldp packets

no debug lldp packets

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(50)SE	This command was introduced.

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

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

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 n	no arguments or keywords.
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Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification	
	12.2(40)EX1	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

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

Command History	Release	Modification
	12.2(40)EX1	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(40)EX1	This command was introduced.

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

On a stacking-capable switch, 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
	mac address-table move update {receive transmit}	Configures MAC address-table move update feature on the switch.
	show debugging	Displays information about the types of debugging that are enabled.
	show mac address-table move update	Displays the MAC address-table move update information on the switch.

debug monitor

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

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

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

Syntax Description	all	Display all SPAN debug messages.				
	errors	Display detailed SPAN error debug messages.				
	idb-update	Display SPAN interface description block (IDB) update-trace debug messages.				
	info	Display SPAN informational-tracing debug messages.				
	list	Display SPAN port and VLAN-list tracing debug messages.				
	notifications	Display SPAN notification debug messages.				
	platform	Display SPAN platform-tracing debug messages.				
	requests	Display SPAN request debug messages.				
	snmp	Display SPAN and Simple Network Management Protocol (SNMP) tracing debug messages.				
Defaults	Debugging is disable	led.				
Command Modes	Privileged EXEC					
Command History	Release Modification					
	12.2(40)EX1	This command was introduced.				
Usage Guidelines	The undebug moni	tor command is the same as the no debug monitor command.				
	enable debugging o switch-number priv prompt of the stack	ble switch, when you enable debugging, it is enabled only on the stack master. To n a stack member, you can start a session from the stack master by using the session ileged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> ommand on the stack master switch to enable debugging on a member switch without on.				
Related Commands	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}

Syntax Description	all	Display all MVR activity debug messages.		
	events	Display MVR event-handling debug messages.		
	igmpsn	Display MVR Internet Group Management Protocol (IGMP) snooping-activity		
		debug messages.		
	management	Display MVR management-activity debug messages.		
	ports	Display MVR port debug messages.		
Defaults	Debugging is disabl	ed.		
Command Modes	Privileged EXEC			
Command History	Release	Modification		
	12.2(40)EX1	This command was introduced.		
Usage Guidelines	The undebug mvrd	bg command is the same as the no debug mvrdbg command.		
	enable debugging or <i>switch-number</i> privi prompt of the stack	ble switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session leged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mmand on the stack master switch to enable debugging on a member switch without on.		
	0	Description		
Related Commands	Command			
Related Commands	show debugging	Displays information about the types of debugging that are enabled.		

debug nmsp

Use the **debug nmsp** privileged EXEC command to the enable debugging of the Network Mobility Services Protocol (NMSP) on the switch. This command is available only when your switch is running the cryptographic (encrypted) software image. Use the **no** form of this command to disable debugging.

debug nmsp {all | connection | error | event | packet | rx | tx}

no debug nmsp

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(50)SE	This command was introduced.

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

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

debug nvram

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

debug nvram

no debug nvram

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

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX1	This command was introduced.

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

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

debug pagp

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

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

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

	Intional) Display all PA aP debug messages		
1 4 //	(Optional) Display all PAgP debug messages.		
l-active (0	Optional) Display dual-active detection messages.		
nt (C	Optional) Display PAgP event debug messages.		
(0	Optional) Display PAgP finite state-machine debug messages.		
e ((Optional) Display miscellaneous PAgP debug messages.		
ket (C	Optional) Display PAgP packet debug messages.		
agging is disable	ed.		
leged EXEC			
ase	Modification		
e(40)EX1	This command was introduced.		
e(46)SE	The dual-active keyword was added.		
stacking-capab le debugging or <i>ch-number</i> privi ppt of the stack	command is the same as the no debug pagp command. le switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session leged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mmand on the stack master switch to enable debugging on a member switch without on.		
e de la companya de			
mand	Description		
-	Description Displays information about the types of debugging that are enabled.		
	c (0 ket (0 legging is disable leged EXEC ease 2(40)EX1 2(46)SE undebug pagp a stacking-capab le debugging on ch-number privit upt of the stack is		

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.

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.

 $debug\ platform\ acl\ \{all \mid exit \mid label \mid main \mid racl \mid stack \mid vacl \mid vlmap \mid warn \}$

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

Syntax Description	all	Display all ACL manager debug messages.	
Syntax Description		Display ACL exit-related debug messages.	
		Display ACL label-related debug messages.	
		Display the main or important ACL debug messages.	
		Display router ACL related debug messages.	
		Display ACL stack-related debug messages.	
	This keyword is supported only on stacking-capable switches.		
		Display VLAN ACL-related debug messages.	
		Display ACL VLAN-map-related debug messages.	
	warn	Display ACL warning-related debug messages.	
Command Default Command Modes Command History	nonstacking-ca Debugging is o Privileged EXI Release		
,	12.2(40)EX1	This command was introduced.	
Usage Guidelines	On a stacking-	platform acl command is the same as the no debug platform acl command. capable switch, when you enable debugging, it is enabled only on the stack master. To ing on a stack member, you can start a session from the stack master by using the session	

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

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

- **Command Default** Platform backup interface debugging is disabled.
- **Command Modes** Privileged EXEC

Command History	Release	Modification
	12.2(40)EX1	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 cisp

Use the **debug platform cisp** global configuration command to enable platform-level debugging of a switch that has one or more Client Information Signalling Protocol (CISP)-enabled interfaces. Use the **no** form of this command to disable debugging.

debug platform cisp [initialization | interface-configuration | rpc]

no debug platform cisp [initialization | interface-configuration | rpc]

Syntax Description	initialization	Enable debugging	of the CISP initialization sequence.
	interface-configuration	Enable debugging	of the CISP configuration.
	rpc	Enable debugging	of the CISP RPC requests.
Defaults	Debugging is disabled.		
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(50)SE	This command was intr	oduced.
Usage Guidelines	When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, start a session from the stack master by using the session switch-number privileged EXEC command and enter the debug command at the command-line prompt of the stack member. You also c use the remote command stack-member-number <i>privileged</i> EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.		
	master switch to chable a	cougging on a memoer s	witch without first starting a session.
Related Commands	Command		witch without first starting a session. Description
Related Commands			
Related Commands	Command		Description Enables Client Information Signalling Protocol

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



This command is supported only on stacking-capable switches.

Syntax Description	This command has no arguments or keywords.	
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	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. On a stacking-capable switch, 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.

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}



This command is supported only on stacking-capable switches.

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 disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX1	This command was introduced.

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

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

debug platform cpu-queues

debug platform cpu-queues

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

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

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

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

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 device-manager

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

 $debug\ platform\ device-manager\ \{all\ |\ device-info\ |\ poll\ |\ port-download\ |\ trace\}$

no debug platform device-manager $\{all \mid device-info \mid poll \mid port-download \mid trace\}$

Syntax Description	all	Display all platform device manager debug messages.
	device-info	Display platform device manager device structure debug messages.
	poll	Display platform device manager 1-second poll debug messages.
	port-download	Display platform device manager remote procedure call (RPC) usage debug messages.
	trace	Trace platform device manager function entry and exit debug messages.
Defaults	Debugging is disa	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug pla device-manager (tform device-manager command is the same as the no debug platform command.
	• 1	able switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session
	<i>switch-number</i> proprompt of the state	ivileged EXEC command. Then enter the debug command at the command-line ek member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
Related Commands	<i>switch-number</i> priprompt of the stace privileged EXEC	ivileged EXEC command. Then enter the debug command at the command-line ek member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without

debug platform dot1x

Use the **debug platform dot1x** privileged EXEC command to enable debugging of IEEE 802.1x events. On stacking-capable switches, this command enables 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.
	грс	Display IEEE 802.1x remote procedure call (RPC) request debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(40)EX1	Modification This command was introduced.
Command History Usage Guidelines	12.2(40)EX1 The undebug platform of On a stacking-capable sw enable debugging on a sta switch-number privileged prompt of the stack mem	This command was introduced. lot1x command is the same as the no debug platform dot1x command. when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session I EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i>
	12.2(40)EX1 The undebug platform of On a stacking-capable sw enable debugging on a sta <i>switch-number</i> privileged prompt of the stack mem privileged EXEC comman	This command was introduced. lot1x command is the same as the no debug platform dot1x command. when you enable debugging, it is enabled only on the stack master. To hack member, you can start a session from the stack master by using the session I EXEC command. Then enter the debug command at the command-line

debug platform etherchannel

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

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

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

Syntax Description	init	Display EtherChannel module initialization debug messages.
	link-up	Display EtherChannel link-up and link-down related debug messages.
	rpc	Display EtherChannel remote procedure call (RPC) debug messages.
	warnings	Display EtherChannel warning debug messages.
Defaults	Debugging is disa	ıbled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug pla command.	tform etherchannel command is the same as the no debug platform etherchannel
	On a stacking-cap enable debugging <i>switch-number</i> pr prompt of the stac	bable switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session ivileged EXEC command. Then enter the debug command at the command-line ck member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without sion.
Related Commands	Command	Description
	show debugging	•

debug platform fallback-bridging

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

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

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

Syntax Description	error	(Optional) Display fallback bridging manager error condition messages.	
	retry	(Optional) Display fallback bridging manager retry messages.	
	rpc {events messages}	(Optional) Display fallback bridging debugging information. The keywords have these meanings:	
		• events—Display remote procedure call (RPC) events.	
		• messages—Display RPC messages.	
Defaults	Debugging is disabled.		
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(40)EX1	This command was introduced.	
Usage Guidelines	If you do not specify a ke	eyword, all fallback bridging manager debug messages appear.	
	The undebug platform fallback-bridging command is the same as the no debug platform fallback-bridging command.		
	enable debugging on a sta switch-number privileged prompt of the stack mem	vitch, when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session I EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i> nd on the stack master switch to enable debugging on a member switch without	
Related Commands	Command	Description	
	show debugging	Displays information about the types of debugging that are enabled.	

debug platform ip arp inspection

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

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

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

Syntax Description	all	Display all dynamic ARP inspection debug messages.	
	error	Display dynamic ARP inspection error debug messages.	
	event	Display dynamic ARP inspection event debug messages.	
	packet	Display dynamic ARP inspection packet-related debug messages.	
	грс	Display dynamic ARP inspection remote procedure call (RPC) request debug messages.	
Defaults	Debugging is disabled.		
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(40)EX1	This command was introduced.	
Usage Guidelines		form ip arp inspection command is the same as the no debug platform ip arp	
Usage Guidelines	The undebug plat inspection comma On a stacking-capa enable debugging o <i>switch-number</i> priv prompt of the stack	form ip arp inspection command is the same as the no debug platform ip arp nd. ble switch, when you enable debugging, it is enabled only on the stack master. To n a stack member, you can start a session from the stack master by using the session ileged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> ommand on the stack master switch to enable debugging on a member switch without	
	The undebug platf inspection comma On a stacking-capa enable debugging of <i>switch-number</i> priv prompt of the stack privileged EXEC co	form ip arp inspection command is the same as the no debug platform ip arp nd. ble switch, when you enable debugging, it is enabled only on the stack master. To n a stack member, you can start a session from the stack master by using the session ileged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> ommand on the stack master switch to enable debugging on a member switch without	
Usage Guidelines Related Commands	The undebug platf inspection comma On a stacking-capa enable debugging of <i>switch-number</i> priv prompt of the stack privileged EXEC co first starting a sessi	form ip arp inspection command is the same as the no debug platform ip arp nd. ble switch, when you enable debugging, it is enabled only on the stack master. To n a stack member, you can start a session from the stack master by using the session ileged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> ommand on the stack master switch to enable debugging on a member switch without on.	

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]

error (Optional) Display DHCP error debug messages. event (Optional) Display DHCP event debug messages. packet (Optional) Display DHCP packet-related debug messages. rpc (Optional) Display DHCP remote procedure call (RPC) request debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command was introduced.			
event (Optional) Display DHCP event debug messages. packet (Optional) Display DHCP packet-related debug messages. rpc (Optional) Display DHCP remote procedure call (RPC) request debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Usage Guidelines Release Modification 12.2(40)EX1 This command was introduced. It is enabled only on the stack master. To enable debugging on a stack member, you can start a session from 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 lice 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 ip dhep snooping Displays the DHCP snooping configuration. show ip dhep snooping Displays the DHCP snooping binding information.	Syntax Description	all	(Optional) Display all DHCP debug messages.
packet (Optional) Display DHCP packet-related debug messages. rpc (Optional) Display DHCP remote procedure call (RPC) request debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command us introduced. 12.2(40)EX1 Usage Guidelines The undebug platform ip dhcp command is the same as the no debug platform ip dhcp command. On a stacking-capable switch, 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 ip dhcp snooping Displays the DHCP snooping configuration. show ip dhcp snooping		error	(Optional) Display DHCP error debug messages.
rpc (Optional) Display DHCP remote procedure call (RPC) request debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command is the same as the no debug platform ip dhcp command. On a stacking-capable switch, 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 Displays the DHCP snooping configuration. show ip dhep snooping Displays the DHCP snooping binding information. binding		event	(Optional) Display DHCP event debug messages.
Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform ip dhcp command is the same as the no debug platform ip dhcp command. On a stacking-capable switch, 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 ip dhep snooping Displays the DHCP snooping configuration. show ip dhep snooping binding Displays the DHCP snooping binding information.		packet	(Optional) Display DHCP packet-related debug messages.
Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform ip dhcp command is the same as the no debug platform ip dhcp command. On a stacking-capable switch, 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 ip dhcp snooping Displays the DHCP snooping configuration. show ip dhcp snooping Displays the DHCP snooping binding information.		rpc	
Command History Release Modification 12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform ip dhcp command is the same as the no debug platform ip dhcp command. On a stacking-capable switch, 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 ip dhcp snooping Displays the DHCP snooping configuration. show ip dhcp snooping Displays the DHCP snooping binding information. binding	Defaults	Debugging is disabled.	
12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform ip dhcp command is the same as the no debug platform ip dhcp command. On a stacking-capable switch, 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 ip dhcp snooping Displays the DHCP snooping configuration. show ip dhcp snooping Displays the DHCP snooping binding information.	Command Modes	Privileged EXEC	
Usage Guidelines The undebug platform ip dhcp command is the same as the no debug platform ip dhcp command. On a stacking-capable switch, 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 ip dhcp snooping Displays the DHCP snooping configuration. binding Displays the DHCP snooping binding information.	Command History	Release	Modification
On a stacking-capable switch, 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 ip dhcp snooping Displays the DHCP snooping configuration. show ip dhcp snooping Displays the DHCP snooping binding information.		12.2(40)EX1	This command was introduced.
show ip dhcp snoopingDisplays the DHCP snooping configuration.show ip dhcp snoopingDisplays the DHCP snooping binding information.bindingDisplays the DHCP snooping binding information.	Usage Guidelines	On a stacking-capable sw enable debugging on a sta switch-number privileged prompt of the stack member privileged EXEC comman	vitch, when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i>
<pre>show ip dhcp snooping Displays the DHCP snooping binding information. binding</pre>	Related Commands	Command	Description
binding		show ip dhcp snooping	Displays the DHCP snooping configuration.
show debugging Displays information about the types of debugging that are enabled.			Displays the DHCP snooping binding information.
		show debugging	Displays information about the types of debugging that are enabled.

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 | l3mm | misc | vlan]

no debug platform ip igmp snooping {all | di | error | event | group | mgmt | pak | retry | rpc | warn}

Syntax 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.
	,	• 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 13mm 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.
		• I3mm —(Optional) IGMP snooping Layer 3 multicast router group 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.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	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.	
	enable debugging on a switch-number privileg prompt of the stack me	switch, when you enable debugging, it is enabled only on the stack master. To stack member, you can start a session from the stack master by using the session ed EXEC command. Then enter the debug command at the command-line mber. You also can use the remote command <i>stack-member-number LINE</i> hand on the stack master switch to enable debugging on a member switch without
Related Commands	Command	Description
uu	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 ip multicast

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

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

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

Syntax Description	all	Display all platform IP-multicast event debug messages.
		Note Using this command can degrade the performance of the switch.
	mdb	Display IP-multicast debug messages for multicast distributed fast switching (MDFS) multicast descriptor block (mdb) events.
	mdfs-rp-retry	Display IP-multicast MDFS rendezvous point (RP) retry event debug messages.
	midb	Display IP-multicast MDFS multicast interface descriptor block (MIDB) debug messages.
	mroute-rp	Display IP-multicast RP event debug messages.
	resources	Display IP-multicast hardware resource debug messages.
	retry	Display IP-multicast retry processing event debug messages.
	rpf-throttle	Display IP-multicast reverse path forwarding (RPF) throttle event debug messages.
	snoop-events	Display IP-multicast IGMP snooping event debug messages.
	software-forward	Display IP-multicast software forwarding event debug messages.
	swidb-events	Display IP-multicast MDFS software interface descriptor block (swidb) or global event debug messages.
	vlan-locks	Display IP-multicast VLAN lock and unlock event debug messages.
Defaults	Debugging is disabled	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.

Usage Guidelines The undebug platform ip multicast command is the same as the no debug platform ip multicast command.

On a stacking-capable switch, 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 ip unicast

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

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

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

Syntax Description	adjacency	Display IP unicast routing adjacency programming event debug messages.
	all	Display all platform IP unicast routing debug messages.
		Note Using this command can degrade the performance of the switch.
	arp	Display IP unicast routing Address Resolution Protocol (ARP) and ARP throttling debug messages.
	dhcp	Display IP unicast routing DHCP dynamic address-related event debug messages.
	errors	Display all IP unicast routing error debug messages, including resource allocation failures.
	events	Display all IP unicast routing event debug messages, including registry and miscellaneous events.
	interface	Display IP unicast routing interface event debug messages.
	mpath	Display IP unicast routing multi-path adjacency programming event debug messages (present when performing equal or unequal cost routing).
	registries	Display IP unicast routing forwarding information database (FIB), adjacency add, update, and delete registry event debug messages.
	retry	Display IP unicast routing reprogram FIBs with hardware memory allocation failure debug messages.
	route	Display IP unicast routing FIB hardware programming event debug messages.
	rpc	Display IP unicast routing Layer 3 unicast remote procedure call (RPC) interaction debug messages.
	rpf	Display IP unicast routing Layer 3 unicast reverse path forwarding (unicast RPF) event debug messages.
	standby	Display IP unicast routing standby event debug messages, helpful in troubleshooting Hot Standby Routing Protocol (HSRP) issues.
	statistics	Display IP unicast routing statistics gathering-related event debug messages.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification	
	12.2(40)EX1 This command was introduced.		
Usage Guidelines	The undebug platform ip unicast command is the same as the no debug platform ip unicast command.		
Usage Guidennes	enable debugging on a <i>switch-number</i> privile prompt of the stack m	e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session ged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without	
Related Commands	Command	Description	
	show debugging	Displays information about the types of debugging that are enabled.	

debug platform ip wccp

Use the **debug platform ip wccp** privileged EXEC command to enable debugging of Web Cache Communication Protocol (WCCP). Use the **no** form of this command to disable debugging.

debug platform ip wccp {acl | event | odm | trace}

no debug platform ip wccp {acl | event | odm | trace}

This command is supported only if your switch is running the IP services feature set.

Syntax Description	acl	Display WCCP access control lists (ACLs).		
	event	Display WCCP event debug messages.		
	odm	Display WCCP OD merge VMRs.		
	trace	Trace WCCP execution.		
Defaults	Debugging is disabled.			
Command Modes	Privileged EXE	C		
Command History	Release	Modification		
	12.2(40)EX1	This command was introduced.		
	12.2(10)2111	This command was infoduced.		
Usage Guidelines		latform ip wccp command is the same as the no debug platform ip wccp command.		
Usage Guidelines	The undebug p l On a stacking-ca enable debuggin <i>switch-number</i> p prompt of the st	latform ip wccp command is the same as the no debug platform ip wccp command. apable switch, when you enable debugging, it is enabled only on the stack master. To be on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line ack member. You also can use the remote command <i>stack-member-number LINE</i> C command on the stack master switch to enable debugging on a member switch without		
Usage Guidelines Related Commands	The undebug p l On a stacking-ca enable debuggin <i>switch-number</i> p prompt of the st privileged EXEC	latform ip wccp command is the same as the no debug platform ip wccp command. apable switch, when you enable debugging, it is enabled only on the stack master. To be on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line ack member. You also can use the remote command <i>stack-member-number LINE</i> C command on the stack master switch to enable debugging on a member switch without		

debug platform ipc

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

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

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



This command is supported only on stacking-capable switches.

Syntax Description	all	Display all platform IPC debug messages.			
	un	Note Using this command can degrade the performance of the switch.			
	init	Display debug messages related to IPC initialization.			
	receive	Display IPC traces each time an IPC packet is received by the switch.			
	send	Display IPC traces each time an IPC packet is received by the switch. Display IPC traces each time an IPC packet is sent by the switch.			
	trace	Display IPC traces each time an IPC packet is sent by the switch. Display IPC trace debug messages, tracing the code path as the IPC functions are executed.			
Defaults	Debugging is				
Command Modes	Privileged E	XEC			
Command History	Release	Modification			
		mounouton			
	12.2(40)EX				
Usage Guidelines	12.2(40)EX				
Usage Guidelines	12.2(40)EX The undebu On a stackin enable debug <i>switch-numb</i> prompt of th	This command was introduced. g platform ipc command is the same as the no debug platform ipc . g-capable switch, when you enable debugging, it is enabled only on the stack master. To trying on a stack member, you can start a session from the stack master by using the session <i>er</i> privileged EXEC command. Then enter the debug command at the command-line e stack member. You also can use the remote command <i>stack-member-number LINE</i> KEC command on the stack master switch to enable debugging on a member switch without			
Usage Guidelines	12.2(40)EX The undebu On a stackin enable debug <i>switch-numb</i> prompt of th privileged E2	This command was introduced. g platform ipc command is the same as the no debug platform ipc . g-capable switch, when you enable debugging, it is enabled only on the stack master. To trying on a stack member, you can start a session from the stack master by using the session <i>er</i> privileged EXEC command. Then enter the debug command at the command-line e stack member. You also can use the remote command <i>stack-member-number LINE</i> KEC command on the stack master switch to enable debugging on a member switch without			

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	0	Display LED generic action debug messages.	
	signal l	Display LED signal bit map debug messages.	
	stack 1	Display LED stack action debug messages.	
		This keyword is supported only on stacking-capable switches.	
Defaults	Debugging is d	isabled.	
Command Modes	Privileged EXE	C	
Command History	Release	Modification	
	12.2(40)EX1	This command was introduced.	
Usage Guidelines	The undebug p	platform led command is the same as the no debug platform led command.	
	On a stacking-capable switch, 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 sessio <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	ng Displays information about the types of debugging that are enabled.	

debug platform matm

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

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

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

t event debug messages.
bug messages.
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rning debug messages.
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bled only on the stack master. To be stack master by using the session ommand at the command-line d stack-member-number LINE

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.

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.
		This keyword is supported only on stacking-capable switches.
	usererr	Display user-error debug messages.
Defaults	Debugging is disabled	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(40)EX1	Modification This command was introduced.
Command History Usage Guidelines	12.2(40)EX1	This command was introduced. m messaging application command is the same as the no debug platform
	12.2(40)EX1 The undebug platfor messaging applicatio On a stacking-capable enable debugging on a <i>switch-number</i> privile prompt of the stack m	This command was introduced. m messaging application command is the same as the no debug platform on command. e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session eged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without
	12.2(40)EX1 The undebug platfor messaging applicatio On a stacking-capable enable debugging on a <i>switch-number</i> privile prompt of the stack m privileged EXEC com	This command was introduced. m messaging application command is the same as the no debug platform on command. e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session eged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without

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

debug platform phy

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

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

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

Command History	Kelease	Wodification
	12.2(40)EX1	This command was introduced.

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

On a stacking-capable switch, 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}

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	
soutput-vectors stack-manager	Display IDB output vector event debug messages. Display stack-manager related-events debug messages.
	errdisable etherchnl exceptions hpm-events idb-events if-numbers ios-events link-status platform pm-events pm-span pm-vectors [detail]

	sync	Display operational synchronization and VLAN line-state event debug messages.
	vlans	Display VLAN creation and deletion event debug messages.
Defaults	Debugging is disable	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug platform pm command is the same as the no debug platform pm command. On a stacking-capable switch, 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> mmand on the stack master switch to enable debugging on a member switch without
Related Commands	Command	Description

show debugging	Displays information about the types of debugging that are enabled.
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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.
		This keyword is supported only on stacking-capable switches.
	write	Display port-ASIC write debug messages.
Defaults	Debugging is disabled	I.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines		m port-asic command is the same as the no debug platform port-asic command. e switch, when you enable debugging, it is enabled only on the stack master. To
	enable debugging on a switch-number privile prompt of the stack m	a stack member, you can start a session from the stack master by using the session ged EXEC command. Then enter the debug command at the command-line ember. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform port-security

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

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

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

	show debugging	Displays information about the types of debugging that are enabled.
Related Commands	Command	Description
	enable debugging on a <i>switch-number</i> privile prompt of the stack m	switch, when you enable debugging, it is enabled only on the stack master. To stack member, you can start a session from the stack master by using the session ged EXEC command. Then enter the debug command at the command-line ember. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without
Usage Guidelines	The undebug platfor command.	n port-security command is the same as the no debug platform port-security
	12.2(40)EX1	This command was introduced.
Command History	Release	Modification
Command Modes	Privileged EXEC	
Defaults	Debugging is disabled	
	warnings	Display warning debug messages.
	rpc	Display remote procedure call (RPC) debug messages.
	errors	Display port-security error debug messages.
	delete	Display secure address deletion debug messages.
	aging all	Display secure address aging acoug messages. Display all port-security debug messages.
	aging	Display secure address aging debug messages.

debug platform qos-acl-tcam

Use the **debug platform qos-acl-tcam** privileged EXEC command to enable debugging of the quality of service (QoS) and access control list (ACL) hardware memory 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}

ctcam Display Cisco TCAM (CTCAM) related-events debug messages. errors Display QATM error-related-events debug messages. labels Display QATM mask-related-events debug messages. mask Display QATM mask-related-events debug messages. rpc Display QATM mask-related-events debug messages. tcam Display QATM memote procedure call (RPC) related-events debug messages. tcam Display QATM hardware-memory-related events debug messages. tcam Display QATM hardware-memory-related events debug messages. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, 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 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.	Syntax Description	all	Display all QoS and ACL ternary content addressable memory (QATM) manager 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 hardware-memory-related events debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, 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. To using the stack master. You also can use the remote command at the command-line prompt of the stack member. You also can use the remote command at the command-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		ctcam	
mask Display QATM mask-related-events debug messages. rpc Display QATM remote procedure call (RPC) related-events debug messages. tcam Display QATM hardware-memory-related events debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command was introduced. Its and the same as the no debug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, 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. The 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		errors	Display QATM error-related-events debug messages.
rpc Display QATM remote procedure call (RPC) related-events debug messages. tam Display QATM hardware-memory-related events debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command was introduced. The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, 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 at the command-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		labels	Display QATM label-related-events debug messages.
tam Display QATM hardware-memory-related events debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, 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		mask	Display QATM mask-related-events debug messages.
Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, 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		rpc	Display QATM remote procedure call (RPC) related-events debug messages.
Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, 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. The 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		tcam	Display QATM hardware-memory-related events debug messages.
Command History Release Modification 12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, 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 disab	bled.
12.2(40)EX1 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, 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 qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command.On a stacking-capable switch, 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 CommandsCommandDescription	Command History	Release	Modification
command. On a stacking-capable switch, 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(40)EX1	This command was introduced.
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 CommandsCommandDescription	Usage Guidelines	••	form qos-acl-tcam command is the same as the no debug platform qos-acl-tcam
•		enable debugging c switch-number priv prompt of the stack privileged EXEC co	on a stack member, you can start a session from the stack master by using the session vileged EXEC command. Then enter the debug command at the command-line c member. You also can use the remote command <i>stack-member-number LINE</i> ommand on the stack master switch to enable debugging on a member switch without
show debugging Displays information about the types of debugging that are enabled.	Related Commands	Command	Description
		show debugging	Displays information about the types of debugging that are enabled.

debug platform remote-commands

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

debug platform remote-commands

no debug platform remote-commands

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

Command History	Release	Modification
	12.2(40)EX1	This command was introduced.

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

On a stacking-capable switch, 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 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 }

Cuntary Description		
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 di	isabled.
Command Modes	Privileged EXE	C
Command History	Release	Modification
Command History	Release 12.2(40)EX1	Modification This command was introduced.
Command History Usage Guidelines	12.2(40)EX1	This command was introduced. latform resource-manager command is the same as the no debug platform
	12.2(40)EX1 The undebug p resource-mana On a stacking-c enable debuggin <i>switch-number</i> prompt of the st	This command was introduced. latform resource-manager command is the same as the no debug platform ger command. apable switch, when you enable debugging, it is enabled only on the stack master. To ng on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line tack member. You also can use the remote command <i>stack-member-number LINE</i> C command on the stack master switch to enable debugging on a member switch without
	12.2(40)EX1 The undebug p resource-mana On a stacking-c enable debuggir <i>switch-number</i> p prompt of the st privileged EXE	This command was introduced. latform resource-manager command is the same as the no debug platform ger command. apable switch, when you enable debugging, it is enabled only on the stack master. To ng on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line tack member. You also can use the remote command <i>stack-member-number LINE</i> C command on the stack master switch to enable debugging on a member switch without

debug platform snmp

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 debu	g platform	snmp
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Syntax Description	This command has	s no arguments or	keywords.
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Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX1	This command was introduced.

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

On a stacking-capable switch, 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(40)EX1	This command was introduced.

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

On a stacking-capable switch, 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.

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

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}



This command is supported only on stacking-capable switches.

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 di	isabled.
Command Modes	Privileged EXE	C
Command History		
	Release	Modification
oonnand motory	Kelease 12.2(40)EX1	Modification This command was introduced.
	12.2(40)EX1	This command was introduced. latform stack-manager command is the same as the no debug platform
	The undebug p stack-manager On a stacking-c enable debuggin <i>switch-number</i> p prompt of the st	This command was introduced. latform stack-manager command is the same as the no debug platform command. apable switch, when you enable debugging, it is enabled only on the stack master. To ng on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line tack member. You also can use the remote command stack-member-number LINE C command on the stack master switch to enable debugging on a member switch without
Usage Guidelines Related Commands	The undebug p stack-manager On a stacking-c enable debuggir <i>switch-number</i> p prompt of the st privileged EXE0	This command was introduced. latform stack-manager command is the same as the no debug platform command. apable switch, when you enable debugging, it is enabled only on the stack master. To ng on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line tack member. You also can use the remote command stack-member-number LINE C command on the stack master switch to enable debugging on a member switch without

debug platform supervisor-asic

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

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

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

Syntax Description		
- /	all	Display all supervisor-ASIC event debug messages.
	errors	Display the supervisor-ASIC error debug messages.
	receive	Display the supervisor-ASIC receive debug messages.
	send	Display the supervisor-ASIC send debug messages.
Defaults	Debugging is disabled	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug platfor	m supervisor-asic command is the same as the no debug platform
Usage Guidelines	The undebug platfor supervisor-asic comr On a stacking-capable enable debugging on a <i>switch-number</i> privile prompt of the stack m	m supervisor-asic command is the same as the no debug platform mand. e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session eged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> umand on the stack master switch to enable debugging on a member switch without
Usage Guidelines Related Commands	The undebug platfor supervisor-asic comr On a stacking-capable enable debugging on a <i>switch-number</i> privile prompt of the stack m privileged EXEC com	m supervisor-asic command is the same as the no debug platform mand. e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session eged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> umand on the stack master switch to enable debugging on a member switch without

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(40)EX1	This command was introduced.	
Usage Guidelines	The undebug platform sw-bridge command is the same as the no debug platform sw-bridge command.		
	On a stacking-capable switch, 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 tcam

Use the **debug platform tcam** privileged EXEC command to enable debugging of hardware memory access and lookups. Use the **no** form of this command to disable debugging.

debug platform tcam {log | read | search | write}

debug platform tcam log l2 {acl {input | output} | local | qos}

debug platform tcam log l3 {acl {input | output} | ipv6 {acl {input | output} | local | qos | secondary} | local | qos | secondary}

debug platform tcam read {reg | ssram | tcam}

debug platform tcam search

debug platform tcam write {forw-ram | reg | tcam}

no debug platform tcam {log | read | search | write}

no debug platform tcam log l2 {acl {input | output} | local | qos}

no debug platform tcam log l3 {acl {input | output} | ipv6 {acl {input | output} | local | qos | secondary} | local | qos | secondary}

no debug platform tcam read {reg | ssram | tcam}

no debug platform tcam search

no debug platform tcam write {forw-ram | reg | tcam}

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

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX1	This command was introduced.

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

On a stacking-capable switch, 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 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(40)EX1	This command was introduced.
Usage Guidelines	On a stacking-capable sw enable debugging on a sta <i>switch-number</i> privileged prompt of the stack memb	dld command is the same as the no debug platform udld command. itch, when you enable debugging, it is enabled only on the stack master. To ck member, you can start a session from the stack master by using the session EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i> and on the stack master switch to enable debugging on a member switch without
Related Commands	Command show debugging	Description Displays information about the types of debugging that are enabled.

debug platform vlan

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

debug platform vlan {errors | mvid | rpc}

no debug platform vlan {errors | mvid | rpc}

Syntax Description	errors	Display VLAN error debug messages.
	mvid	Display mapped VLAN ID allocations and free debug messages.
	rpc	Display remote procedure call (RPC) debug messages.
Defaults	Debugging is disabled	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug platfor	m vlan command is the same as the no debug platform vlan command.
	enable debugging on a <i>switch-number</i> privile prompt of the stack m	e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session ged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug pm

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

Release Modification 12.2(40)EX1 This command was introduced.

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

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

debug port-security

debug port-security

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

debug port-security

no debug port-security

Syntax Description	This command has no	arguments or keywords.
--------------------	---------------------	------------------------

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX1	This command was introduced.

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

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

debug qos-manager

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

debug qos-manager {all | event | verbose}

no debug qos-manager {all | event | verbose}

Syntax Description	all	Display all QoS-manager debug messages.
	event	Display QoS-manager related-event debug messages.
	verbose	Display QoS-manager detailed debug messages.
Defaults	Debugging is disabl	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug qos-manager command is the same as the no debug qos-manager command. On a stacking-capable switch, 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	
Related Commands	first starting a session Command show debugging	Description Displays information about the types of debugging that are enabled.

debug spanning-tree

debug spanning-tree

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

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

Syntax Description	all	Display all spanning-tree debug messages.
	backbonefast	Display BackboneFast-event debug messages.
	bpdu	Display spanning-tree bridge protocol data unit (BPDU) debug messages.
	bpdu-opt	Display optimized BPDU handling debug messages.
	config	Display spanning-tree configuration change debug messages.
	csuf/csrt	Display cross-stack UplinkFast and cross-stack rapid transition activity debug messages.
		This keyword is supported only on stacking-capable switches.
	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(40)EX1	This command was introduced.
Usage Guidelines	The undebug spanni	ng-tree command is the same as the no debug spanning-tree command.
	enable debugging on a switch-number privile prompt of the stack m	e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session ged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

Displays spanning-tree state information.

show spanning-tree

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 disa	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug spa backbonefast cor	nning-tree backbonefast command is the same as the no debug spanning-tree nmand.
	On a stacking-capable switch, 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	•
	show spanning-t	ree 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]

	<u> </u>	
Syntax Description		(Optional) Display the nonoptimized path for received BPDU debug messages.
	transmit	(Optional) Display the nonoptimized path for sent BPDU debug messages.
Defaults	Debugging is disal	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Commanu History		
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug spar command.	nning-tree bpdu command is the same as the no debug spanning-tree bpdu
	enable debugging of switch-number pri- prompt of the stack	able switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session vileged EXEC command. Then enter the debug command at the command-line k member. You also can use the remote command <i>stack-member-number LINE</i> ommand on the stack master switch to enable debugging on a member switch without ion.
Related Commands	Command	Description
		•
	show debugging	Displays information about the types of debugging that are enabled.

Displays spanning-tree state information.

show spanning-tree

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 disable	led.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug span command.	ning-tree bpdu-opt command is the same as the no debug spanning-tree bpdu-opt
	On a stacking-capable switch, 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 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	C
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.

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

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

debug spanning-tree switch

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

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

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

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.
Defaults	Debugging is d	isabled.
Command Modes	Privileged EXE	C
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.

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

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

debug spanning-tree 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 (Opt	ional) Display spanning-tree UplinkFast-exception debug messages.	
Defaults	Debugging is disabled.		
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(40)EX1	This command was introduced.	
Usage duidennes	uplinkfast command.		
Usage Guidelines	uplinkfast command. On a stacking-capable enable debugging on a	g-tree uplinkfast command is the same as the no debug spanning-tree switch, when you enable debugging, it is enabled only on the stack master. To stack member, you can start a session from the stack master by using the session ed EXEC command. Then enter the debug command at the command-line	
	prompt of the stack me	mber. You also can use the remote command <i>stack-member-number LINE</i> hand on the stack master switch to enable debugging on a member switch without	
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 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(40)EX1	This command was introduced.

Usage Guidelines The undebug sw-vlan command is the same as the no debug sw-vlan command.

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(40)EX1	This command was introduced.
Usage Guidelines	The undebug sw-vlan	ifs command is the same as the no debug sw-vlan ifs command.
	On a stacking-capable enable debugging on a <i>switch-number</i> privileg prompt of the stack me	switch, when you enable debugging, it is enabled only on the stack master. To stack member, you can start a session from the stack master by using the session ged EXEC command. Then enter the debug command at the command-line ember. You also can use the remote command <i>stack-member-number LINE</i> nand on the stack master switch to enable debugging on a member switch without
	verification word and t contains most of the do	e read operation, Operation 1 reads the file header, which contains the header the file version number. Operation 2 reads the main body of the file, which omain and VLAN information. Operation 3 reads type length version (TLV) Operation 4 reads TLV data.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug sw-vlan notification

Use the **debug sw-vlan notification** privileged EXEC command to enable debugging of the activation and deactivation of 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 pruningcfgchange	Display debug messages for VLAN manager notification of interface mode changes.
		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	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX1	This command was introduced.
Usage Guidelines	The undebug sw-vlan n command.	otification command is the same as the no debug sw-vlan notification
	enable debugging on a st switch-number privileged prompt of the stack mem	witch, when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session d EXEC command. Then enter the debug command at the command-line uber. You also can use the remote command <i>stack-member-number LINE</i> and 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 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	
	12.2(40)EX1	This command was introduced.	
Usage Guidelines	The undebug sw-vlan vtp command is the same as the no debug sw-vlan vtp command.		
	enable debugging on a sta switch-number privileged prompt of the stack meml privileged EXEC comman	witch, when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i> and on the stack master switch to enable debugging 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 di	isabled.	
Command Modes	Privileged EXE	C	
Command History	Release	Modification	
-	12.2(40)EX1	This command was introduced.	
Usage Guidelines	The undebug udld command is the same as the no debug udld command. On a stacking-capable switch, 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.		
	For debug udld events , these debugging messages appear:		
	General UDLD program logic flow		
	State machine state changes		
	• Program actions for the set and clear ErrDisable state		
	Neighbor cache additions and deletions		
	Processing of configuration commands		
	Processing of link-up and link-down indications		

For debug udld packets, these debugging messages appear:

- General packet processing program flow on receipt of an incoming packet
- Indications of the contents of the various pieces of packets received (such as type length versions [TLVs]) as they are examined by the packet reception code
- Packet 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 disab	led.		
Command Modes	Privileged EXEC			
Command History	Release	Modification		
	12.2(40)EX1	This command was introduced.		
Usage Guidelines	The undebug vqpc command is the same as the no debug vqpc command.			
	On a stacking-capable switch, 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.			
	privileged EXEC c	ommand on the stack master switch to enable debugging on a member switch without		
Related Commands	privileged EXEC c	ommand on the stack master switch to enable debugging on a member switch without		