



Cisco Catalyst Blade Switch 3120 for HP 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)EX	This command was introduced.

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

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

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

Examples

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

Switch# debug auto qos
AutoQoS debugging is on
Switch# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)# interface gigabitethernet2/0/1
Switch(config-if)# auto qos voip cisco-phone
21:29:41: mls qos map cos-dscp 0 8 16 26 32 46 48 56
21:29:41: mls qos
21:29:42: no mls qos srr-queue input cos-map

```
21:29:42: mls qos srr-queue input cos-map queue 2 threshold 2 4 6 7
21:29:43: mls qos srr-queue input cos-map queue 2 threshold 3 3 5
21:29:43: mls qos srr-queue output cos-map queue 1 threshold 3 5
21:29:43: mls gos srr-queue output cos-map queue 2 threshold 3 3 6 7
21:29:44: mls gos srr-queue output cos-map queue 3 threshold 3 2 4
21:29:44: mls gos srr-queue output cos-map queue 4 threshold 2 1
21:29:44: mls qos srr-queue output cos-map queue 4 threshold 3 0
21:29:44: no mls qos srr-queue input dscp-map
21:29:44: no mls gos srr-queue output dscp-map
21:29:44: mls qos srr-queue input dscp-map queue 1 threshold 2 9 10 11 12 13 14 15
21:29:45: mls qos srr-queue input dscp-map queue 1 threshold 3 0 1 2 3 4 5 6 7
21:29:45: mls qos srr-queue input dscp-map queue 1 threshold 3 32
21:29:45: mls qos srr-queue input dscp-map queue 2 threshold 1 16 17 18 19 20 21 22 23
21:29:45: mls gos srr-queue input dscp-map queue 2 threshold 2 33 34 35 36 37 38 39 48
21:29:46: mls qos srr-queue input dscp-map queue 2 threshold 2 49 50 51 52 53 54 55 56
21:29:46: mls gos srr-queue input dscp-map queue 2 threshold 2 57 58 59 60 61 62 63
21:29:46: mls qos srr-queue input dscp-map queue 2 threshold 3 24 25 26 27 28 29 30 31
21:29:47: mls gos srr-queue input dscp-map queue 2 threshold 3 40 41 42 43 44 45 46 47
21:29:47: mls gos srr-queue output dscp-map queue 1 threshold 3 40 41 42 43 44 45 46 47
21:29:47: mls gos srr-queue output dscp-map queue 2 threshold 3 24 25 26 27 28 29 30 31
21:29:47: mls qos srr-queue output dscp-map queue 2 threshold 3 48 49 50 51 52 53 54 55
21:29:48: mls qos srr-queue output dscp-map queue 2 threshold 3 56 57 58 59 60 61 62 63
21:29:48: mls gos srr-queue output dscp-map queue 3 threshold 3 16 17 18 19 20 21 22 23
21:29:48: mls gos srr-queue output dscp-map queue 3 threshold 3 32 33 34 35 36 37 38 39
21:29:49: mls qos srr-queue output dscp-map queue 4 threshold 1 8
21:29:49: mls qos srr-queue output dscp-map queue 4 threshold 2 9 10 11 12 13 14 15
21:29:49: mls gos srr-queue output dscp-map queue 4 threshold 3 0 1 2 3 4 5 6 7
21:29:49: no mls gos srr-queue input priority-queue 1
21:29:49: no mls qos srr-queue input priority-queue 2
21:29:50: mls qos srr-queue input bandwidth 90 10
21:29:50: no mls qos srr-queue input buffers
21:29:50: mls gos queue-set output 1 buffers 10 10 26 54
21:29:50: interface GigabitEthernet2/0/1
21:29:50: mls qos trust device cisco-phone
21:29:50: mls qos trust cos
21:29:50: no queue-set 1
21:29:50: srr-queue bandwidth shape 10 0 0 0
21:29:50: srr-queue bandwidth share 10 10 60 20
```

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

debug backup

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

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

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

Syntax Description	all	Display all backup interface debug messages.
	errors	Display backup interface error or exception debug messages.
	events	Display backup interface event debug messages.
	vlan-load- balancing	Display backup interface VLAN load balancing.
Command Default	Backup interface de	ebugging is disabled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug back	up command is the same as the no debug backup command.
	member, you can sta EXEC command. Th also can use the rem	ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session.
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)EX	This command was introduced.
Usage Guidelines	The undebug do	t1x command is the same as the no debug dot1x command.
	member, you can EXEC command also can use the r	e debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged . Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack enable debugging on a member switch without first starting a session.
Related Commands	Command	Description
	show debugging	
	show dot1x	Displays IEEE 802.1xstatistics, administrative status, and operational status for the switch or for the specified port.
		for the switch of for the specified port.

debug dtp

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

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

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

Syntax Description	aggregation	Display DTP user-message aggregation debug messages.
	all	Display all DTP debug messages.
	decision	Display the DTP decision-table debug messages.
	events	Display the DTP event debug messages.
	oserrs	Display DTP operating system-related error debug messages.
	packets	Display DTP packet-processing debug messages.
	queue	Display DTP packet-queueing debug messages.
	states	Display DTP state-transition debug messages.
	timers	Display DTP timer-event debug messages.
Defaults	Debugging is disabl	ed.
Command Modes	Privileged EXEC	
Command Modes	Privileged EXEC	
Command Modes Command History	Release	Modification
		Modification This command was introduced.
	Release	
Command History	Release 12.2(40)EX	This command was introduced.
	Release 12.2(40)EX The undebug dtp c	This command was introduced. ommand is the same as the no debug dtp command.
Command History	Release 12.2(40)EX The undebug dtp co When you enable de	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack
Command History	Release 12.2(40)EX The undebug dtp co When you enable do member, you can sta	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged
Command History	Release 12.2(40)EX The undebug dtp c When you enable de member, you can sta EXEC command. Th	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You
Command History	Release 12.2(40)EX The undebug dtp c When you enable de member, you can sta EXEC command. Th also can use the rem	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged
Command History	Release 12.2(40)EX The undebug dtp c When you enable de member, you can sta EXEC command. Th also can use the rem	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack
Command History Usage Guidelines	Release 12.2(40)EX The undebug dtp c When you enable de member, you can sta EXEC command. Th also can use the rem master switch to ena	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You tote command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session.
Command History	Release 12.2(40)EX The undebug dtp c When you enable demember, you can state EXEC command. The also can use the remember switch to enable to en	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged nen enter the debug command at the command-line prompt of the stack member. You tote command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session.
Command History Usage Guidelines	Release 12.2(40)EX The undebug dtp c When you enable de member, you can sta EXEC command. Th also can use the rem master switch to ena	This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You tote command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session.

debug eap

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

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

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

Syntax Description all Display all EAP debug messages. authenticator Display EAP error debug messages. errors Display EAP error debug messages. events Display EAP error debug messages. md5 Display EAP packet debug messages. packets Display EAP packet debug messages. peer Display EAP peer debug messages. sm Display EAP peer debug messages. sm Display EAP state-machine related-events debug messages. Smmand Default Debugging is disabled. Command Modes Privileged EXEC Vage Guidelines The undebug dot1x command is the same as the no debug dot1x command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. The enter the debug command the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master by using the session. Related Commands Command Suck-member switch without first starting a session. Related Commands Description show debugging Displays EAP registration and session information for the switch or for the specified port.				
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 packet debug messages. sm Display EAP state-machine related-events debug messages. Sm Display EAP state-machine related-events debug messages. Command Default Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug dot1x command is the same as the no debug dot1x command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session 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 eap Displays EAP registration and session information for the switch or for the	Syntax Description	all	Display all EAP debug messages.	
events Display EAP event debug messages. md5 Display EAP packet 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 disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. 12.2(40)EX 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. When you enable debugging on a member switch without first starting a session. Related Commands Command Description show eap Displays EAP registration and session information for the switch or for the		authenticator	Display authenticator 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 disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug dot1x command is the same as the no debug dot1x command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description show debugging Displays information about the types of debugging that are enabled. show eap		errors	Display EAP error 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 disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug dot1x command is the same as the no debug dot1x command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack master. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description show debugging Displays information about the types of debugging that are enabled. show eap		events	Display EAP event debug messages.	
peer Display EAP peer debug messages. sm Display EAP state-machine related-events debug messages. Command Default Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug dot1x command is the same as the no debug dot1x command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session 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 Show debugging Displays information about the types of debugging that are enabled. show eap		md5	Display EAP-MD5 debug messages.	
sm Display EAP state-machine related-events debug messages. Command Default Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Image: State and the state as the no debug dot1x command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session 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.		packets	Display EAP packet debug messages.	
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Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug dot1x command is the same as the no debug dot1x command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session 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 eap Displays information about the types of debugging that are enabled.		sm	Display EAP state-machine related-events debug messages.	
Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug dot1x command is the same as the no debug dot1x command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session 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 eap Displays information about the types of debugging that are enabled.				
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When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.Related CommandsCommandDescriptionshow debuggingDisplays information about the types of debugging that are enabled. bisplays EAP registration and session information for the switch or for the		12.2(40)EX	This command was introduced.	
member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. 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 CommandsCommandDescriptionshow debuggingDisplays information about the types of debugging that are enabled. bisplays EAP registration and session information for the switch or for the	Usage Guidelines	The undebug d o	ot1x command is the same as the no debug dot1x command.	
show debuggingDisplays information about the types of debugging that are enabled.show eapDisplays EAP registration and session information for the switch or for the		member, you car EXEC command also can use the r	n start a session from the stack master by using the session <i>switch-number</i> privileged . Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack	
show eap Displays EAP registration and session information for the switch or for the	Related Commands	Command	Description	
		show debugging	g Displays information about the types of debugging that are enabled.	
			Displays EAP registration and session information for the switch or for the	

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 (C	Optional) Display all EtherChannel debug messages.
	detail (C	Optional) Display detailed EtherChannel debug messages.
	error (C	Optional) Display EtherChannel error debug messages.
	event (C	Optional) Debug major EtherChannel event messages.
	idb (C	Optional) Display PAgP interface descriptor block debug messages.
Note	Though visible i	n the command-line help strings, the linecard keyword is not supported.
Defaults	Debugging is dis	sabled
Dellans	Debugging is un	3001Cu.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	•	ecify a keyword, all debug messages appear.
	The undebug et	herchannel command is the same as the no debug etherchannel command.
		e debugging, it is enabled only on the stack master. To enable debugging on a stack a start a session from the stack master by using the session <i>switch-number</i> privileged
	•	I. Then enter the debug command at the command-line prompt of the stack member. You
		remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack
	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 etherchar	Displays EtherChannel information for the channel.

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.
	events	Display Ethernet management port event debug messages.
	packets	Display Ethernet management port packet debug messages.
Defaults	Debugging	is disabled.
Command Modes	Privileged E	EXEC
Command History	Release	Modification
	12.2(40)EX	K This command was introduced.
Usage Guidelines		ug fastethernet { af events packets } command is the same as the no debug fastethernet s packets } command.
	member, yo EXEC comi also can use	enable debugging, it is enabled only on the stack master. To enable debugging on a stack ou can start a session from the stack master by using the session <i>switch-number</i> privileged mand. Then enter the debug command at the command-line prompt of the stack member. You the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack ich to enable debugging on a member switch without first starting a session.
Related Commands	Command	Description
	show debu	
		rollers Displays information about the Ethernet management port.

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.
	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)EX	This command was introduced.
Usage Guidelines	The undebug i	p dhcp snooping command is the same as the no debug ip dhcp snooping command.
	member, you ca EXEC comman also can use the	ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session.
	Command	Description
Related Commands		Uescrintion

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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.
--------------------	--

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

Command History	Release	Modification
	12.2(40)EX	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)EX	This command was introduced.
Usage Guidelines	If you do not specify a	keyword, all debug messages appear.
	The undebug interface	command is the same as the no debug interface command.
	member, you can start a EXEC command. Then also can use the remote	gging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged enter the debug command at the command-line prompt of the stack member. You command <i>stack-member-number LINE</i> privileged EXEC command on the stack debugging on a member switch without first starting a session.
Related Commands	Command	Description
	show 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

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

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

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

 Related Commands
 Command
 Description

 show debugging
 Displays information about the types of debugging that are enabled.

debug ip igmp max-groups

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

debug ip igmp max-groups

no debug ip igmp max-groups

Syntax Description This command has no arguments or keywords.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

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

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

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

debug ip igmp snooping

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

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

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

Syntax Description	group	(Optional) Display IGMP snooping group activity debug messages.
	management	(Optional) Display IGMP snooping management activity debug messages.
	querier	(Optional) Display IGMP snooping querier debug messages.
	router	(Optional) Display IGMP snooping router activity debug messages.
	timer	(Optional) Display IGMP snooping timer event debug messages.
Defaults	Debugging is disabled	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines		snooping command is the same as the no debug ip igmp snooping command.
	member, you can start EXEC command. Ther also can use the remot	agging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged a enter the debug command at the command-line prompt of the stack member. You e command <i>stack-member-number LINE</i> privileged EXEC command on the stack e debugging on a member switch without first starting a session.
Related Commands	Command	Description
	debug platform ip	Displays information about platform-dependent IGMP snooping activity.

Displays information about the types of debugging that are enabled.

show debugging

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debug lacp

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

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

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

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 dis	abled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	
	12.2(40)EA	This command was introduced.
Usage Guidelines		cp command is the same as the no debug lacp command.
Usage Guidelines	The undebug la When you enabl member, you car EXEC command also can use the u	
Usage Guidelines	The undebug la When you enabl member, you car EXEC command also can use the u	cp command is the same as the no debug lacp command. e debugging, it is enabled only on the stack master. To enable debugging on a stack a start a session from the stack master by using the session <i>switch-number</i> privileged . Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack
	The undebug la When you enable member, you can EXEC command also can use the n master switch to	cp command is the same as the no debug lacp command. e debugging, it is enabled only on the stack master. To enable debugging on a stack a start a session from the stack master by using the session <i>switch-number</i> privileged . Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack enable debugging on a member switch without first starting a session. Description

debug 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

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.

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.

Syntax Description	This command has no arguments or keywords.		
Defaults	Debugging is disabled	i.	
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(40)EX	This command was introduced.	
Usage Guidelines	When you enable deb member, you can star EXEC command. The also can use the remo t	Diffication command is the same as the no debug mac-notification command. ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack le 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 mac address-table notification	Displays the MAC address notification information for all interfaces or the specified interface.	

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

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)EX	This command was introduced.

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

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

debug matm move update

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

debug matm move update

no debug matm move update

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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

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

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

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

Related Commands	Command	Description
	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 disabl	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
La sua Oscidadia		
Jsage Guidelines	The undebug monit	or command is the same as the no debug monitor command.
Usage Guidelines	When you enable de member, you can sta EXEC command. Th also can use the rem	bugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You
	When you enable de member, you can sta EXEC command. Th also can use the rem	bugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack
Usage Guidelines Related Commands	When you enable de member, you can sta EXEC command. Th also can use the rem master switch to ena	bugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack ble debugging on a member switch without first starting a session.

debug mvrdbg

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
Command History	Release 12.2(40)EX	Modification This command was introduced.
Command History Usage Guidelines	12.2(40)EX	
	12.2(40)EXThe undebug mvrdWhen you enable demember, you can stateEXEC command. Thealso can use the rem	This command was introduced.
	12.2(40)EXThe undebug mvrdWhen you enable demember, you can stateEXEC command. Thealso can use the rem	This command was introduced. bg command is the same as the no debug mvrdbg command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack
Usage Guidelines	12.2(40)EX The undebug mvrd When you enable de member, you can sta EXEC command. Th also can use the rem master switch to ena	This command was introduced. bg command is the same as the no debug mvrdbg command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session.

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

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.
--------------------	---------------------	------------------------

Defaults Debugging is disabled.

Command Modes Privileged EXEC

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

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

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

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]

Syntax Description		
Oyntax Description	all	(Optional) Display all PAgP debug messages.
	dual-active	(Optional) Display dual-active detection messages.
	event	(Optional) Display PAgP event debug messages.
	fsm	(Optional) Display PAgP finite state-machine debug messages.
	misc	(Optional) Display miscellaneous PAgP debug messages.
	packet	(Optional) Display PAgP packet debug messages.
Defaults	Debugging is di	sabled.
Command Modes	Privileged EXE	C
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
	12.2(46)SE	The dual-active keyword was added.
Usage Guidelines	The undebug p	agp command is the same as the no debug pagp command.
	member, you ca EXEC command	le debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack
		b enable debugging on a member switch without first starting a session.
Related Commands		
Related Commands	master switch to	enable debugging on a member switch without first starting a session. Description

debug platform acl

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

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

no debug platform acl $\{all \mid exit \mid label \mid main \mid racl \mid stack \mid vacl \mid vlmap \mid warn\}$

Syntax Description	all	Display all ACL manager debug messages.
	exit	Display ACL exit-related debug messages.
	label	Display ACL label-related debug messages.
	main	Display the main or important ACL debug messages.
	racl	Display router ACL related debug messages.
	stack	Display ACL stack-related debug messages.
	vacl	Display VLAN ACL-related debug messages.
	vlmap	Display ACL VLAN-map-related debug messages.
	warn	Display ACL warning-related debug messages.
Command Default	Debugging i	s disabled.
Command Modes	Privileged E	XEC
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebu	g platform acl command is the same as the no debug platform acl command.
Usage Guidelines	When you en member, you EXEC comm also can use	g platform acl command is the same as the no debug platform acl command. nable debugging, it is enabled only on the stack master. To enable debugging on a stack a can start a session from the stack master by using the session <i>switch-number</i> privileged hand. Then enter the debug command at the command-line prompt of the stack member. You the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack th to enable debugging on a member switch without first starting a session.
Usage Guidelines	When you en member, you EXEC comm also can use	nable debugging, it is enabled only on the stack master. To enable debugging on a stack a can start a session from the stack master by using the session <i>switch-number</i> privileged hand. Then enter the debug command at the command-line prompt of the stack member. You the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

debug platform backup interface

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

debug platform backup interface

no debug platform backup interface

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

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

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

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

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

debug platform 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 can use the remote command stack-member-number <i>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
	cisp enable		Enables Client Information Signalling Protocol (CISP)
	dot1x credentials (globa	al configuration)profile	Configures a profile on a supplicant switch.
	show cisp		Displays CISP information for a specified interface.

debug platform cli-redirection main

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

debug platform cli-redirection main

no debug platform cli-redirection main

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

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

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

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

debug platform configuration

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

debug platform configuration {all | reception | transmission}

no debug platform configuration $\{all \mid reception \mid transmission\}$

Syntax Description	all	Display debug messages for all configuration file transmission and reception events throughout the stack.
	reception	Display debug messages for configuration file reception from other stack members.
	transmission	Display debug messages for configuration file transmission to other stack members.
Defaults	Debugging is di	sabled.
Command Modes	Privileged EXE	С
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug p command.	latform configuration command is the same as the no debug platform configuration
	member, you ca EXEC command also can use the	le debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session.
Related Commands	member, you ca EXEC command also can use the	n start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

debug platform cpu-queues

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

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

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

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

Command Modes Privileged EXEC

Command History

Release 12.2(40)EX

This command was introduced.

Modification

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 | device-info | poll | port-download | trace}

Syntax Description		
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)EX	This command was introduced.
Usage Guidelines	The undebug plat device-manager of	form device-manager command is the same as the no debug platform command.
Usage Guidelines	device-manager of When you enable member, you can EXEC command. ² also can use the re	command. debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You
Usage Guidelines Related Commands	device-manager of When you enable member, you can EXEC command. ² also can use the re	command. debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You mote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

debug platform dot1x

Use the **debug platform dot1x** privileged EXEC command to enable debugging of IEEE 802.1x events. 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	6
	грс	Display IEEE 802.1x remote procedure call (RPC) request debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	When you enable debugg member, you can start a s EXEC command. Then er also can use the remote c	lot1x command is the same as the no debug platform dot1x command. sing, it is enabled only on the stack master. To enable debugging on a stack session from the stack master by using the session <i>switch-number</i> privileged atter the debug command at the command-line prompt of the stack member. You command <i>stack-member-number LINE</i> privileged EXEC command on the stack lebugging on a member switch without first starting a session.
Related Commands	Command show debugging	Description Displays information about the types of debugging that are enabled.

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	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug pla command.	tform etherchannel command is the same as the no debug platform etherchannel
	member, you can EXEC command. also can use the re	debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack enable debugging on a member switch without first starting a session.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

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)EV	
	12.2(40)EX	This command was introduced.
Usage Guidelines		This command was introduced. word, all fallback bridging manager debug messages appear.
Usage Guidelines	If you do not specify a key	word, all fallback bridging manager debug messages appear.
Usage Guidelines	If you do not specify a key The undebug platform fa fallback-bridging comma When you enable debuggi member, you can start a se EXEC command. Then ent also can use the remote co	word, all fallback bridging manager debug messages appear. Allback-bridging command is the same as the no debug platform and. ng, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You
Usage Guidelines	If you do not specify a key The undebug platform fa fallback-bridging comma When you enable debuggi member, you can start a se EXEC command. Then ent also can use the remote co master switch to enable de	word, all fallback bridging manager debug messages appear. Allback-bridging command is the same as the no debug platform and. ng, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You mmand <i>stack-member-number LINE</i> privileged EXEC command on the stack

debug platform 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}

Cuntox Description		
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.
	rpc	Display dynamic ARP inspection remote procedure call (RPC) request debug messages.
Defaults	Debugging is disat	led.
Command Modes	Privileged EXEC	
Commond Illiotom	Release	Modification
Command History	nelease	Modification
Command History	12.2(40)EX	This command was introduced.
	12.2(40)EX	This command was introduced. Form ip arp inspection command is the same as the no debug platform ip arp
Command History Usage Guidelines	12.2(40)EX The undebug plat inspection comma When you enable of member, you can s EXEC command. T also can use the ren	This command was introduced. Form ip arp inspection command is the same as the no debug platform ip arp nd. lebugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You
	12.2(40)EX The undebug plat inspection comma When you enable of member, you can s EXEC command. T also can use the ren	This command was introduced. Form ip arp inspection command is the same as the no debug platform ip arp nd. lebugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack
Usage Guidelines	12.2(40)EX The undebug plat inspection comma When you enable of member, you can s EXEC command. T also can use the rer master switch to en	This command was introduced. Form ip arp inspection command is the same as the no debug platform ip arp nd. lebugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack hable debugging on a member switch without first starting a session.

debug platform ip dhcp

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

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

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

Syntax Description	all	(Optional) Display all DHCP debug messages.
	error	(Optional) Display DHCP error debug messages.
	event	(Optional) Display DHCP event debug messages.
	packet	(Optional) Display DHCP packet-related debug messages.
	грс	(Optional) Display DHCP remote procedure call (RPC) request debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	When you enable debugg member, you can start a s EXEC command. Then en also can use the remote co	p dhcp command is the same as the no debug platform ip dhcp command. ing, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack ebugging on a member switch without first starting a session.
Related Commands	Command	Description
	show ip dhcp snooping	Displays the DHCP snooping configuration.
	show ip dhcp snooping binding	Displays the DHCP snooping binding information.
	U	

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 l3mm 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	
Commond History	Release	Modification
Command History	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug platform snooping command.	i ip igmp snooping command is the same as the no debug platform ip igmp
	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> privileg EXEC command. Then enter the debug command at the command-line prompt of the stack member. also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the s master switch to enable debugging on a member switch without first starting a session.	
	member, you can start a EXEC command. Then also can use the remote	a session from the stack master by using the session <i>switch-number</i> privileged enter the debug command at the command-line prompt of the stack member. You command <i>stack-member-number LINE</i> privileged EXEC command on the stack
Related Commands	member, you can start a EXEC command. Then also can use the remote	a session from the stack master by using the session <i>switch-number</i> privileged enter the debug command at the command-line prompt of the stack member. You command <i>stack-member-number LINE</i> privileged EXEC command on the stack
Related Commands	member, you can start a EXEC command. Then also can use the remote master switch to enable	a session from the stack master by using the session <i>switch-number</i> privileged enter the debug command at the command-line prompt of the stack member. You command <i>stack-member-number LINE</i> privileged EXEC command on the stack e debugging on a member switch without first starting a session.
Related Commands	member, you can start a EXEC command. Then also can use the remote master switch to enable Command debug ip igmp	a session from the stack master by using the session <i>switch-number</i> privileged enter the debug command at the command-line prompt of the stack member. You command <i>stack-member-number LINE</i> privileged EXEC command on the stack debugging on a member switch without first starting a session.

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	Ι.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.

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

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

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

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)EX	This command was introduced.
Usage Guidelines	The undebug platform ip unicast command is the same as the no debug platform ip unicast command.	
	member, you can star EXEC command. The also can use the remo	bugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged on enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack ole 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 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 d	lisabled.
Command Modes	Privileged EXE	EC
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug j	platform ip wccp command is the same as the no debug platform ip wccp command.
	When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.	
Related Commands	Command	Description
	show debuggi	

debug platform ipc

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

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

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

Syntax Description	all	Display all platform IPC debug messages.
		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 sent by the switch.
	trace	Display IPC trace debug messages, tracing the code path as the IPC functions are executed.
Defaults	Debugging is	s disabled.
Command Modes	Privileged EX	XEC
Command History	Release	Modification
Command History	Release 12.2(40)EX	Modification This command was introduced.
Command History Usage Guidelines	12.2(40)EX	
	The undebug When you en member, you EXEC comm also can use t	This command was introduced.
	The undebug When you en member, you EXEC comm also can use t	This command was introduced. g platform ipc command is the same as the no debug platform ipc . The black of the stack master is the set of the stack master. The set of the stack master is the set of the stack master is the set of the set of the set of the stack master is the set of the set of the stack member privileged and. Then enter the debug command at the command-line prompt of the stack member. You he remote command stack-member-number LINE privileged EXEC command on the stack member.

debug platform led

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

debug platform led {generic | signal | stack}

no debug platform led {generic | signal | stack}

Syntax Description	generic l	Display LED generic action debug messages.
	signal I	Display LED signal bit map debug messages.
	stack I	Display LED stack action debug messages.
Defaults	Debugging is d	isabled.
Command Modes	Privileged EXE	C
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug p	platform led command is the same as the no debug platform led command.
	member, you ca EXEC comman also can use the	ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session.
Related Commands	Command	Description
	show debugging	-

debug platform matm

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

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

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

Syntax Description	aging	Display MAC address aging debug messages.
	all	Display all platform MAC address management event debug messages.
	ec-aging	Display EtherChannel address aging-related debug messages.
	errors	Display MAC address management error messages.
	learning	Display MAC address management address-learning debug messages.
	грс	Display MAC address management remote procedure call (RPC) related debug messages.
	secure-address	Display MAC address management secure address learning debug messages.
	warning	Display MAC address management warning messages.
Defaults	Debugging is disal	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(40)EX	Modification This command was introduced.
	12.2(40)EX	
Command History Usage Guidelines	12.2(40)EXThe undebug platWhen you enable of member, you can so EXEC command. T also can use the ren	This command was introduced.
Usage Guidelines	12.2(40)EXThe undebug platWhen you enable of member, you can so EXEC command. T also can use the ren	This command was introduced. form matm command is the same as the no debug platform matm command. debugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You mote command <i>stack-member-number LINE</i> privileged EXEC command on the stack nable debugging on a member switch without first starting a session.
	12.2(40)EX The undebug plat When you enable of member, you can se EXEC command. T also can use the re m master switch to en	This command was introduced. form matm command is the same as the no debug platform matm command. debugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You mote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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.
	usererr	Display user-error debug messages.
Defaults	Debugging is disable	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(40)EX	Modification This command was introduced.
Command History Usage Guidelines	12.2(40)EX	This command was introduced. rm messaging application command is the same as the no debug platform
	12.2(40)EX The undebug platfor messaging application When you enable det member, you can star EXEC command. The also can use the remo	This command was introduced. rm messaging application command is the same as the no debug platform
	12.2(40)EX The undebug platfor messaging application When you enable det member, you can star EXEC command. The also can use the remo	This command was introduced. rm messaging application command is the same as the no debug platform on command. bugging, it is enabled only on the stack master. To enable debugging on a stack rt a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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
	12.2(40)EX	This command was introduced.

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

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

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

debug platform pm

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

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

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

	sync	Display operational synchronization and VLAN line-state event debug messages.
	vlans	Display VLAN creation and deletion event debug messages.
Defaults	Debugging is disabled	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug platfor	m pm command is the same as the no debug platform pm command.
	member, you can star EXEC command. The also can use the remo	ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack le 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 port-asic

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

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

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

Syntax Description	interrupt	Display port-ASIC interrupt-related function debug messages.
	periodic	Display port-ASIC periodic-function-call debug messages.
	read	Display port-ASIC read debug messages.
	stack	Display stacking-related function debug messages.
	write	Display port-ASIC write debug messages.
Defaults	Debugging is disabled	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug platfor	m port-asic command is the same as the no debug platform port-asic command.
	member, you can star EXEC command. The also can use the remo	ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack le debugging on a member switch without first starting a session.
Related Commands	Command	Description

debug platform port-security

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

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

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

Syntax Description add Display secure address addition debug messages. aging Display secure address aging debug messages. all Display all port-security debug messages. delete Display secure address deletion debug messages. errors Display port-security error debug messages. errors Display remote procedure call (RPC) debug messages. warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description Show debugging Displays information about the types of debugging that are enabled.			
all Display all port-security debug messages. delete Display secure address deletion debug messages. errors Display port-security error debug messages. rpc Display remote procedure call (RPC) debug messages. warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <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	Syntax Description	add	Display secure address addition debug messages.
delete Display secure address deletion debug messages. errors Display port-security error debug messages. rpc Display remote procedure call (RPC) debug messages. warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <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		aging	Display secure address aging debug messages.
errors Display port-security error debug messages. rpc Display remote procedure call (RPC) debug messages. warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		all	Display all port-security debug messages.
rpc Display remote procedure call (RPC) debug messages. warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Description		delete	Display secure address deletion debug messages.
warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		errors	Display port-security error debug messages.
Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		rpc	Display remote procedure call (RPC) debug messages.
Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		warnings	Display warning debug messages.
Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description	Defaults	Debugging is disabled	d.
12.2(40)EX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description	Command Modes	Privileged EXEC	
Usage GuidelinesThe undebug platform port-security command is the same as the no debug platform port-security command.When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.Related CommandsCommandDescription	Command History	Release	Modification
command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		12.2(40)EX	This command was introduced.
member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. 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	• •	m port-security command is the same as the no debug platform port-security
•		member, you can star EXEC command. The also can use the remo	t a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack
•	Related Commands	Command	Description
		show debugging	Displays information about the types of debugging that are enabled.

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 }

Syntax Deparintian	all	Diaglas all Q.C. and A.C.L. tampens a stant address alls mean any (QATM) means and
Syntax Description	all	Display all QoS and ACL ternary content addressable memory (QATM) manager debug messages.
	ctcam	Display Cisco TCAM (CTCAM) related-events debug messages.
	errors	Display QATM error-related-events debug messages.
	labels	Display QATM label-related-events debug messages.
	mask	Display QATM mask-related-events debug messages.
	rpc	Display QATM remote procedure call (RPC) related-events debug messages.
	tcam	Display QATM hardware-memory-related events debug messages.
Defaults	Debugging is disa	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug pla command.	tform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam
Usage Guidelines	command. When you enable member, you can EXEC command. also can use the re	tform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You mote command <i>stack-member-number LINE</i> privileged EXEC command on the stack enable debugging on a member switch without first starting a session.
Usage Guidelines Related Commands	command. When you enable member, you can EXEC command. also can use the re	debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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	s or keywords.
--	----------------

Defaults Debugging is disabled.

Command Modes Privileged EXEC

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

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

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

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

debug platform 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 $\{all \mid dm \mid erd \mid errors \mid madmed \mid sd \mid stats \mid vld\}$

Syntax Description	all	Display all resource manager debug messages.
•,	dm	Display destination-map debug messages.
	erd	Display equal-cost-route descriptor-table debug messages.
	errors	Display error debug messages.
	madmed	Display the MAC address descriptor table and multi-expansion descriptor table debug messages.
	sd	Display the station descriptor table debug messages.
	stats	Display statistics debug messages.
	vld	Display the VLAN-list descriptor debug messages.
Defaults	Debugging is dis	abled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(40)EX	Modification This command was introduced.
Command History Usage Guidelines	12.2(40)EX	This command was introduced. atform resource-manager command is the same as the no debug platform
	The undebug pla resource-manag When you enable member, you can EXEC command also can use the r	This command was introduced. atform resource-manager command is the same as the no debug platform
	The undebug pla resource-manag When you enable member, you can EXEC command also can use the r	This command was introduced. atform resource-manager command is the same as the no debug platform ger command. the debugging, it is enabled only on the stack master. To enable debugging on a stack a start a session from the stack master by using the session <i>switch-number</i> privileged . Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

debug platform snmp

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

debug platform snmp

no debug platform snmp

Syntax Description This command has no arguments or keywords.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

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

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

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

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

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 <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.

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

This command was introduced.

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

Modification

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.
Oyntax Description	This command has no arguments of keywords.

Defaults Debugging is disabled.

Release

12.2(40)EX

Command Modes Privileged EXEC

Command History

Usage Guidelines

debug platform stack-manager

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

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

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

Syntax Description	all	Display all stack manager debug messages.
	rpc	Display stack manager remote procedure call (RPC) usage debug messages.
	sdp	Display the Stack Discovery Protocol (SDP) debug messages.
	sim	Display the stack information module debug messages.
	ssm	Display the stack state-machine debug messages.
	trace	Trace the stack manager entry and exit debug messages.
Defaults	Debugging is disa	abled.
Command Modes	Privileged EXEC	
0	Release	Modification
Command History	nelease	Modification
Command History	12.2(40)EX	This command was introduced.
Command History Usage Guidelines	12.2(40)EX	This command was introduced.
	12.2(40)EXThe undebug plastack-manager ofWhen you enablemember, you canEXEC command.also can use the red	This command was introduced.
	12.2(40)EXThe undebug plastack-manager ofWhen you enablemember, you canEXEC command.also can use the red	This command was introduced. Atform stack-manager command is the same as the no debug platform command. I debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

debug platform supervisor-asic

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

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

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

	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	l.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug platform supervisor-asic command is the same as the no debug platform supervisor-asic command.	
	supervisor-asic comm	nand.
	When you enable deb member, you can start EXEC command. The also can use the remot	nand. ugging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You re command <i>stack-member-number LINE</i> privileged EXEC command on the stack le debugging on a member switch without first starting a session.
Related Commands	When you enable deb member, you can start EXEC command. The also can use the remot	ugging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You se command <i>stack-member-number LINE</i> privileged EXEC command on the stack

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. unicast Display unicast-data debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform sw-bridge command is the same as the no debug platform sw-bridge 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. 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. When you 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.				
multicast Display multicast-data debug messages. packet Display sent and received data debug messages. unicast Display unicast-data debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform sw-bridge command is the same as the no debug platform sw-bridge command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Y 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 Description	Syntax Description	broadcast	Display broadcast-data debug messages.	
packet Display sent and received data debug messages. unicast Display unicast-data debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform sw-bridge command is the same as the no debug platform sw-bridge command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Y also can use the remote command stack-member-number LINE privileged EXEC command on the stat master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		control	Display protocol-packet debug messages.	
unicast Display unicast-data debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform sw-bridge command is the same as the no debug platform sw-bridge command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Y also can use the remote command stack-member-number LINE privileged EXEC command on the stat master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		multicast	Display multicast-data debug messages.	
Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform sw-bridge command is the same as the no debug platform sw-bridge command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Y also can use the remote command stack-member-number LINE privileged EXEC command on the stat master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		packet	Display sent and received data debug messages.	
Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform sw-bridge command is the same as the no debug platform sw-bridge command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Y also can use the remote command stack-member-number LINE privileged EXEC command on the stamaster switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		unicast	Display unicast-data debug messages.	
Command History Release Modification 12.2(40)EX This command was introduced. Usage Guidelines The undebug platform sw-bridge command is the same as the no debug platform sw-bridge command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Y also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description	Defaults	Debugging is disabled	d.	
12.2(40)EX This command was introduced. Usage Guidelines The undebug platform sw-bridge command is the same as the no debug platform sw-bridge command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Y also can use the remote command stack-member-number LINE privileged EXEC command on the stamaster switch to enable debugging on a member switch without first starting a session. Related Commands Command Description	Command Modes	Privileged EXEC		
Usage Guidelines The undebug platform sw-bridge command is the same as the no debug platform sw-bridge command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Y also can use the remote command stack-member-number LINE privileged EXEC command on the star master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description	Command History			
command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Y also can use the remote command stack-member-number LINE privileged EXEC command on the sta master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		12.2(40)EX	This command was introduced.	
member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. Y also can use the remote command stack-member-number LINE privileged EXEC command on the sta master switch to enable debugging on a member switch without first starting a session.Related CommandsCommandDescription	Usage Guidelines			
		member, you can star EXEC command. The also can use the remo	t a session from the stack master by using the session <i>switch-number</i> privileged on enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack	
	Related Commands	Command	Description	
		show debugging	Displays information about the types of debugging that are enabled.	

debug platform 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}	Display Layer 3 field-based CAM look-up type debug messages. The keywords have these meanings:
	local qos secondary} local qos secondary}	• 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.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release Mo	dification
	12.2(40)EX Thi	s command was introduced.

Usage Guidelines

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

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

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

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debug platform 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}]

Cuntary Description		
Syntax Description	all	(Optional) Display all UDLD debug messages.
	error	(Optional) Display error condition debug messages.
	rpc {events messages}	(Optional) Display UDLD remote procedure call (RPC) debug messages. The keywords have these meanings:
		• events—Display UDLD RPC events.
		• messages—Display UDLD RPC messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(40)EX	Modification This command was introduced.
	12.2(40)EX	
Command History Usage Guidelines	12.2(40)EX The undebug platform u When you enable debugg member, you can start a s EXEC command. Then en also can use the remote co	This command was introduced. dld command is the same as the no debug platform udld command. ing, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You
	12.2(40)EX The undebug platform u When you enable debugg member, you can start a s EXEC command. Then en also can use the remote co	This command was introduced. dld command is the same as the no debug platform udld command. ing, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged iter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack

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debug platform vlan

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

debug platform vlan {errors | mvid | rpc}

no debug platform vlan {errors | mvid | rpc}

Syntax Description	errors	Display VLAN error debug messages.	
	mvid	Display mapped VLAN ID allocations and free debug messages.	
	rpc	Display remote procedure call (RPC) debug messages.	
Defaults	Debugging is disabled	L.	
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(40)EX	This command was introduced.	
Usage Guidelines	The undebug platform vlan command is the same as the no debug platform vlan command.		
	When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.		
	Commond	Description	
Related Commands	Command	Description	

debug pm

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

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

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

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



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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

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

Usage Guidelines

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

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

debug port-security

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

debug port-security

no debug port-security

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

Command History	Release	Modification
	12.2(40)EX	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
oommunu mistory		Woullication
oommunu mistory	12.2(40)EX	This command was introduced.
Usage Guidelines	12.2(40)EX	
	12.2(40)EX The undebug qos-n When you enable de member, you can sta EXEC command. Th also can use the rem	This command was introduced. nanager command is the same as the no debug qos-manager command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You
	12.2(40)EX The undebug qos-n When you enable de member, you can sta EXEC command. Th also can use the rem	This command was introduced. nanager command is the same as the no debug qos-manager command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged nen enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack

debug spanning-tree

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

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

Syntax Description	all	Display all spanning-tree debug messages.
•,	backbonefast	Display BackboneFast-event debug messages.
	bpdu	Display spanning-tree bridge protocol data unit (BPDU) debug messages.
	bpdu-opt	Display optimized BPDU handling debug messages.
	config	Display spanning-tree configuration change debug messages.
	csuf/csrt	Display cross-stack UplinkFast and cross-stack rapid transition activity debug messages.
	etherchannel	Display EtherChannel-support debug messages.
	events	Display spanning-tree topology event debug messages.
	exceptions	Display spanning-tree exception debug messages.
	general	Display general spanning-tree activity debug messages.
	mstp	Debug Multiple Spanning Tree Protocol events.
	pvst+	Display per-VLAN spanning-tree plus (PVST+) event debug messages.
	root	Display spanning-tree root-event debug messages.
	snmp	Display spanning-tree Simple Network Management Protocol (SNMP) handling debug messages.
	synchronization	Display the spanning-tree synchronization event debug messages.
	switch	Display switch shim command debug messages. This shim is the software module that is the interface between the generic Spanning Tree Protocol (STP) code and the platform-specific code of various switch platforms.
	uplinkfast	Display UplinkFast-event debug messages.
Defaults	Debugging is disabled	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
•		

Usage Guidelines

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

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

Related Commands

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

debug spanning-tree backbonefast

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

debug spanning-tree backbonefast [detail | exceptions]

no debug spanning-tree backbonefast [detail | exceptions]

Syntax Description	detail (O	ptional) Display detailed BackboneFast debug messages.
	exceptions (O	ptional) Display spanning-tree BackboneFast-exception debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug spann i backbonefast comm	ing-tree backbonefast command is the same as the no debug spanning-tree and.
	member, you can star EXEC command. The also can use the remo	bugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack ble debugging on a member switch without first starting a session.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show spanning-tree	Displays spanning-tree state information.

debug spanning-tree bpdu

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

debug spanning-tree bpdu [receive | transmit]

no debug spanning-tree bpdu [receive | transmit]

Syntax Description	receive (Optional) Display the nonoptimized path for received BPDU debug messages.
	transmit (Optional) Display the nonoptimized path for sent BPDU debug messages.
Defaults	Debugging is disabl	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug span command.	ning-tree bpdu command is the same as the no debug spanning-tree bpdu
	member, you can sta EXEC command. Th also can use the rem	bugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show spanning-tre	e Displays spanning-tree state information.

debug spanning-tree bpdu-opt

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

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

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

Syntax Description	detail (Optional) Display detailed optimized BPDU-handling debug messages.
	packet (Optional) Display packet-level optimized BPDU-handling debug messages.
Defaults	Debugging is disab	led.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	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
	member, you can st EXEC command. T also can use the ren	ebugging, it is enabled only on the stack master. To enable debugging on a stack sart a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack hable debugging on a member switch without first starting a session.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show spanning-tre	ee 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.
efaults	Debugging is di	sabled.
ommand Modes	Privileged EXE	C
Command History	Release	Modification
	12.2(40)EX	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)EX	This command was introduced.

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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 (O	ptional) Display spanning-tree UplinkFast-exception debug messages.
Defaults	Debugging is disabled	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug spanni uplinkfast command.	ng-tree uplinkfast command is the same as the no debug spanning-tree
	When you enable deb member, you can star EXEC command. The also can use the remo t	ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack le debugging on a member switch without first starting a session.
Related Commands	Command	Description
neialeu commanus	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)EX	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)EX	This command was introduced.
Usage Guidelines	The undebug sw-vlan	ifs command is the same as the no debug sw-vlan ifs command.
	member, you can start EXEC command. Then also can use the remote	gging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged enter the debug command at the command-line prompt of the stack member. You e command <i>stack-member-number LINE</i> privileged EXEC command on the stack e debugging on a member switch without first starting a session.
	verification word and t contains most of the do	e read operation, Operation 1 reads the file header, which contains the header he file version number. Operation 2 reads the main body of the file, which omain and VLAN information. Operation 3 reads type length version (TLV) Operation 4 reads TLV data.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show vlan	Displays the parameters for all configured VLANs or one VLAN (if the VLAN name or ID is specified) in the administrative domain.

debug sw-vlan notification

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

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

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

Syntax Description	accfwdchange	Display debug messages for VLAN manager notification of aggregated access interface spanning-tree forward changes.
	allowedvlancfgchange	Display debug messages for VLAN manager notification of changes to the allowed VLAN configuration.
	fwdchange	Display debug messages for VLAN manager notification of spanning-tree forwarding changes.
	linkchange	Display debug messages for VLAN manager notification of interface link-state changes.
	modechange	Display debug messages for VLAN manager notification of interface mode changes.
	pruningcfgchange	Display debug messages for VLAN manager notification of changes to the pruning configuration.
	statechange	Display debug messages for VLAN manager notification of interface state changes.
Defaults Command Modes	Debugging is disabled. Privileged EXEC	
	U	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines	The undebug sw-vlan n e command.	otification command is the same as the no debug sw-vlan notification
	member, you can start a s EXEC command. Then en also can use the remote c	ging, it is enabled only on the stack master. To enable debugging on a stack session from the stack master by using the session <i>switch-number</i> privileged nter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack lebugging on a member switch without first starting a session.

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

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)EX	This command was introduced.
Usage Guidelines		p command is the same as the no debug sw-vlan vtp command.
	member, you can start a s EXEC command. Then en also can use the remote co	ing, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack ebugging 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 d	isabled.
Command Modes	Privileged EXE	EC
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines		
Usage Guidelines	The undebug u When you enab member, you ca EXEC commar also can use the	Idld command is the same as the no debug udld command. ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged ad. Then enter the debug command at the command-line prompt of the stack member. You aremote command <i>stack-member-number LINE</i> privileged EXEC command on the stack
Usage Guidelines	The undebug u When you enab member, you ca EXEC comman also can use the master switch t	Idld command is the same as the no debug udld command. ble debugging, it is enabled only on the stack master. To enable debugging on a stack
Usage Guidelines	The undebug u When you enab member, you ca EXEC comman also can use the master switch t For debug udle	Idld command is the same as the no debug udld command. ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged ad. Then enter the debug command at the command-line prompt of the stack member. You are remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack to enable debugging on a member switch without first starting a session.
Usage Guidelines	The undebug u When you enab member, you ca EXEC comman also can use the master switch t For debug udle • General U	Idld command is the same as the no debug udld command. ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged id. Then enter the debug command at the command-line prompt of the stack member. You e remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session. d events , these debugging messages appear:
Usage Guidelines	The undebug u When you enab member, you ca EXEC comman also can use the master switch t For debug udle • General UI • State mach	Idld command is the same as the no debug udld command. ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged id. Then enter the debug command at the command-line prompt of the stack member. You e remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session. d events , these debugging messages appear: DLD program logic flow
Usage Guidelines	The undebug u When you enab member, you ca EXEC comman also can use the master switch t For debug udle • General UI • State mach • Program ac	Idld command is the same as the no debug udld command. ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged ad. Then enter the debug command at the command-line prompt of the stack member. You e remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack to enable debugging on a member switch without first starting a session. d events , these debugging messages appear: DLD program logic flow tine state changes
Usage Guidelines	The undebug u When you enab member, you ca EXEC comman also can use the master switch t For debug udle • General UI • State mach • Program ac • Neighbor c	Idld command is the same as the no debug udld command. ble debugging, it is enabled only on the stack master. To enable debugging on a stack an start a session from the stack master by using the session <i>switch-number</i> privileged ad. Then enter the debug command at the command-line prompt of the stack member. You eremote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session. d events, these debugging messages appear: DLD program logic flow tine state changes ctions for the set and clear ErrDisable state

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]

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Syntax Description	all	(Optional) Display all VQP client debug messages.
	cli	(Optional) Display the VQP client command-line interface (CLI) debug messages.
	events	(Optional) Display VQP client event debug messages.
	learn	(Optional) Display VQP client address learning debug messages.
	packet	(Optional) Display VQP client packet information debug messages.
Defaults	Debugging is disabl	led.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX	This command was introduced.
Usage Guidelines		This command was introduced. command is the same as the no debug vqpc command.
Usage Guidelines	The undebug vqpc When you enable de member, you can st EXEC command. Th also can use the rem	
Usage Guidelines	The undebug vqpc When you enable de member, you can st EXEC command. Th also can use the rem	command is the same as the no debug vqpc command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack

debug vqpc