



Cisco Catalyst Switch Module 3110 and 3012 for IBM BladeCenter 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.

Caution

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

debug auto qos

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

debug auto qos

no debug auto qos

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

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

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

Examples

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

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

21:29:42: no mls gos srr-queue output cos-map 21:29:42: mls gos srr-queue input cos-map queue 1 threshold 3 0 21:29:42: mls gos srr-queue input cos-map queue 1 threshold 2 1

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

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

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		
Symax 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-	Display backup interface VLAN load balancing.
	balancing	
Command Default	Backup interface of	debugging is disabled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(40)EX2	Modification This command was introduced.
Command History Usage Guidelines	12.2(40)EX2	

show debugging

debug dot1x

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)EX2	This command was introduced.
Usage Guidelines	The undebug do	t1x command is the same as the no debug dot1x command.
	On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the sessio <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.	
Related Commands	Command	Description
Related Commands	Command show debugging	

debug dtp

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

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

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

Syntax Description	aggregation	Display DTP user-message aggregation debug messages.
	all	Display all DTP debug messages.
	decision	Display the DTP decision-table debug messages.
	events	Display the DTP event debug messages.
	oserrs	Display DTP operating system-related error debug messages.
	packets	Display DTP packet-processing debug messages.
	queue	Display DTP packet-queueing debug messages.
	states	Display DTP state-transition debug messages.
	timers	Display DTP timer-event debug messages.
Defaults	Debugging is disab	oled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug dtn	commond is the same as the no dohug dtn command
Usaye duluelilles		command is the same as the no debug dtp command.
	• •	ble switch, when you enable debugging, it is enabled only on the stack master. To
		on a stack member, you can start a session from the stack master by using the session
		vileged EXEC command. Then enter the debug command at the command-line a member. You also can use the remote command <i>stack-member-number LINE</i>
		ommand on the stack master switch to enable debugging on a member switch without
	first starting a sess	
	-	
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	show dtp	Displays DTP information for the switch or for a specified interface.
	Show up	Displays Diff information for the switch of for a specified interface.

debug eap

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

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

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

Syntax Description	all	Display all EAP debug messages.
	authenticator	Display authenticator debug messages.
	errors	Display EAP error debug messages.
	events	Display EAP event debug messages.
	md5	Display EAP-MD5 debug messages.
	packets	Display EAP packet debug messages.
	peerDisplay EAP peer debug messages.	
	sm	Display EAP state-machine related-events debug messages.
Command Default	Debugging is dis	abled.
Command Modes	Privileged EXEC	
-	Release Modification	
Command History	Kelease	Modification
Command History	Kelease 12.2(40)EX2	Modification This command was introduced.
Command History Usage Guidelines	12.2(40)EX2 The undebug do On a stacking-ca enable debugging <i>switch-number</i> pr	This command was introduced. t1x command is the same as the no debug dot1x command. pable switch, when you enable debugging, it is enabled only on the stack master. To g on a stack member, you can start a session from the stack master by using the session rivileged EXEC command. Then enter the debug command at the command-line
	12.2(40)EX2 The undebug do On a stacking-ca enable debugging <i>switch-number</i> pr prompt of the sta	This command was introduced. t1x command is the same as the no debug dot1x command. pable switch, when you enable debugging, it is enabled only on the stack master. To g on a stack member, you can start a session from the stack master by using the session rivileged EXEC command. Then enter the debug command at the command-line ick member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
	12.2(40)EX2 The undebug do On a stacking-ca enable debugging <i>switch-number</i> pr prompt of the sta privileged EXEC	This command was introduced. t1x command is the same as the no debug dot1x command. pable switch, when you enable debugging, it is enabled only on the stack master. To g on a stack member, you can start a session from the stack master by using the session rivileged EXEC command. Then enter the debug command at the command-line ick member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
Usage Guidelines	12.2(40)EX2 The undebug do On a stacking-ca enable debugging <i>switch-number</i> pr prompt of the sta privileged EXEC first starting a se	This command was introduced. t1x command is the same as the no debug dot1x command. pable switch, when you enable debugging, it is enabled only on the stack master. To g on a stack member, you can start a session from the stack master by using the session rivileged EXEC command. Then enter the debug command at the command-line ick member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without ssion. Description

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]

detail (Optional) Display detailed EtherChannel debug messages. error (Optional) Display EtherChannel error debug messages. event (Optional) Debug major EtherChannel event messages. idb (Optional) Display PAgP interface descriptor block debug messages. idb (Optional) Display PAgP interface descriptor block debug messages. Note Though visible in the command-line help strings, the linecard keyword is not supported. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines If you do not specify a keyword, all debug messages appear. The undebug etherchannel command is the same as the no debug etherchannel command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session 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 JNE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.			
error (Optional) Display EtherChannel error debug messages. event (Optional) Debug major EtherChannel event messages. idb (Optional) Display PAgP interface descriptor block debug messages. Note Though visible in the command-line help strings, the linecard keyword is not supported. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines If you do not specify a keyword, all debug messages appear. The undebug etherchannel command is the same as the no debug etherchannel command. On a stacking-capable switch, when you can start a session from the stack master. To enable debugging on a stack member, you also can use the remote command at the command-line prompt of the stack master. You also can use the remote command at the command-line provileged 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	all (Opti	onal) Display all EtherChannel debug messages.
event (Optional) Debug major EtherChannel event messages. idb (Optional) Display PAgP interface descriptor block debug messages. Note Though visible in the command-line help strings, the linecard keyword is not supported. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines If you do not specify a keyword, all debug messages appear. The undebug etherchannel command is the same as the no debug etherchannel command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack master. You also can use the remote command at the command-line proving of the stack master. You also can use the remote command at the command-line privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		detail (Opti	onal) Display detailed EtherChannel debug messages.
idb (Optional) Display PAgP interface descriptor block debug messages. Note Though visible in the command-line help strings, the linecard keyword is not supported. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines If you do not specify a keyword, all debug messages appear. The undebug etherchannel command is the same as the no debug etherchannel command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command stack-member-IINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		error (Opti	onal) Display EtherChannel error debug messages.
Note Though visible in the command-line help strings, the linecard keyword is not supported. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines If you do not specify a keyword, all debug messages appear. The undebug etherchannel command is the same as the no debug etherchannel command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session 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		event (Opti	onal) Debug major EtherChannel event messages.
Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines If you do not specify a keyword, all debug messages appear. The undebug etherchannel command is the same as the no debug etherchannel command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session 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		idb (Opti	onal) Display PAgP interface descriptor block debug messages.
Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines If you do not specify a keyword, all debug messages appear. The undebug etherchannel command is the same as the no debug etherchannel command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session 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			
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Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines If you do not specify a keyword, all debug messages appear. The undebug etherchannel command is the same as the no debug etherchannel command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session 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 disable	ed.
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		enable debugging or switch-number privi prompt of the stack privileged EXEC co.	a a stack member, you can start a session from the stack master by using the session leged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mmand on the stack master switch to enable debugging on a member switch without
	Related Commands	Command	Description
		show debugging	

Displays EtherChannel information for the channel.

show etherchannel

debug fastethernet

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

debug fastethernet {af | events | packets}

no debug fastethernet {af | events | packets}

Syntax Description	af	Display Ether	rnet management port software-address-filter debug messages.
	events	Display Ether	rnet management port event debug messages.
	packets	Display Ether	rnet management port packet debug messages.
Defaults	Debugging is	s disabled.	
Command Modes	Privileged E	XEC	
Command History	Release	М	odification
· · · · · · ·			
Usage Guidelines		g fastethernet {	his command was introduced. { af events packets } command is the same as the no debug fastethernet
	The undebu { af events When a swite On a stackin enable debug <i>switch-numb</i>	g fastethernet { packets} comm ch is in a stack, g-capable switc gging on a stack er privileged E2	 {af events packets} command is the same as the no debug fastethernet mand. the Ethernet management port is automatically shut down. h, when you enable debugging, it is enabled only on the stack master. To member, you can start a session from the stack master by using the session XEC command. Then enter the debug command at the command-line
	The undebu { af events When a swite On a stackin, enable debug <i>switch-numb</i> prompt of the	g fastethernet { packets} comm ch is in a stack, g-capable switc ging on a stack er privileged E2 e stack member XEC command of	{ af events packets } command is the same as the no debug fastethernet mand. the Ethernet management port is automatically shut down. h, when you enable debugging, it is enabled only on the stack master. To member, you can start a session from the stack master by using the session
Usage Guidelines	The undebu { af events When a swite On a stackin enable debug <i>switch-numb</i> prompt of the privileged E2	g fastethernet { packets} comm ch is in a stack, g-capable switc ging on a stack er privileged E2 e stack member XEC command of	 {af events packets} command is the same as the no debug fastethernet mand. the Ethernet management port is automatically shut down. h, when you enable debugging, it is enabled only on the stack master. To member, you can start a session from the stack master by using the session XEC command. Then enter the debug command at the command-line You also can use the remote command stack-member-number LINE
	The undebu { af events When a swite On a stackin enable debug <i>switch-numb</i> prompt of the privileged E2 first starting	g fastethernet { packets} com ch is in a stack, g-capable switc gging on a stack <i>er</i> privileged E2 e stack member KEC command of a session.	 {af events packets} command is the same as the no debug fastethernet mand. the Ethernet management port is automatically shut down. h, when you enable debugging, it is enabled only on the stack master. To member, you can start a session from the stack master by using the session XEC command. Then enter the debug command at the command-line You also can use the remote command <i>stack-member-number LINE</i> on the stack master switch to enable debugging on a member switch without

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**}

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	С
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug i	p dhcp snooping command is the same as the no debug ip dhcp snooping command.
	On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the sessio <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch witho first starting a session.	
Related Commands	Command	Description
	show debuggin	ng Displays information about the types of debugging that are enabled.

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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX2	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.

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

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 48.
	vlan vlan-id	Display debug messages for the specified VLAN. The <i>vlan-id</i> range is 1 to 4094.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	If you do not specify a l	keyword, all debug messages appear.
	The undebug interface	command is the same as the no debug interface command.
	enable debugging on a s switch-number privilege prompt of the stack mer	witch, when you enable debugging, it is enabled only on the stack master. To tack member, you can start a session from the stack master by using the session ed EXEC command. Then enter the debug command at the command-line mber. You also can use the remote command <i>stack-member-number LINE</i> and on the stack master switch to enable debugging on a member switch without
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

Displays EtherChannel information for the channel.

show etherchannel

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)EX2	This command was introduced.

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

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

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

debug ip igmp max-groups

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

debug ip igmp max-groups

no debug ip igmp max-groups

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

Command History	Release	Modification
	12.2(40)EX2	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	L
Command Modes	Privileged EXEC	
	<u></u>	
Command History	Release	Modification
Command History	Kelease 12.2(40)EX2	Modification This command was introduced.
	12.2(40)EX2 The undebug ip igmp On a stacking-capable enable debugging on a <i>switch-number</i> privile prompt of the stack me	This command was introduced. Snooping command is the same as the no debug ip igmp snooping command. The switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session ged EXEC command. Then enter the debug command at the command-line ember. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without
Usage Guidelines	12.2(40)EX2 The undebug ip igmp On a stacking-capable enable debugging on a <i>switch-number</i> privile prompt of the stack mo privileged EXEC comm	This command was introduced. Snooping command is the same as the no debug ip igmp snooping command. The switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session ged EXEC command. Then enter the debug command at the command-line ember. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without
Command History Usage Guidelines Related Commands	12.2(40)EX2 The undebug ip igmp On a stacking-capable enable debugging on a <i>switch-number</i> privileg prompt of the stack mo privileged EXEC comm first starting a session.	This command was introduced. • snooping command is the same as the no debug ip igmp snooping command. • switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session ged EXEC command. Then enter the debug command at the command-line ember. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without

debug lacp

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

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

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

Syntax Description	all	(Optional) Display all LACP debug messages.
	event	(Optional) Display LACP event debug messages.
	fsm	(Optional) Display LACP finite state-machine debug messages.
	misc	(Optional) Display miscellaneous LACP debug messages.
	packet	(Optional) Display LACP packet debug messages.
Defaults	Debugging is disa	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug lac	p command is the same as the no debug lacp command.
	enable debugging <i>switch-number</i> pri prompt of the stac	able switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session ivileged EXEC command. Then enter the debug command at the command-line ek member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without sion.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

Displays LACP channel-group information.

show lacp

debug mac-notification

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

debug mac-notification

no debug mac-notification

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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

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

debug matm

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

debug matm

no debug matm

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

Command History	Release	Modification
	12.2(40)EX2	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)EX2	This command was introduced.

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

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

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)EX2	This command was introduced.
Usage Guidelines	On a stacking-capab enable debugging or <i>switch-number</i> privi prompt of the stack	tor command is the same as the no debug monitor command. ble switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session leged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mmand on the stack master switch to enable debugging on a member switch without on.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

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
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug mvrd	bg command is the same as the no debug mvrdbg command.
	enable debugging or switch-number privi prompt of the stack privileged EXEC co	ble switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session leged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mmand on the stack master switch to enable debugging on a member switch without
	first starting a session	on.
Related Commands	first starting a session	Description
Related Commands		

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)EX2	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 | event | fsm | misc | packet]

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

Syntax Description	all	(Optional) Display all PAgP debug messages.
	event	(Optional) Display PAgP event debug messages.
	fsm	(Optional) Display PAgP finite state-machine debug messages.
	misc	(Optional) Display miscellaneous PAgP debug messages.
	packet	(Optional) Display PAgP packet debug messages.
Defaults	Debugging is disa	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug pag	p command is the same as the no debug pagp command.
Usage Guidelines	On a stacking-cap enable debugging <i>switch-number</i> pri prompt of the stac	able switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session vileged EXEC command. Then enter the debug command at the command-line k member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
Usage Guidelines Related Commands	On a stacking-cap enable debugging <i>switch-number</i> pri prompt of the stac privileged EXEC	able switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session vileged EXEC command. Then enter the debug command at the command-line k member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
	On a stacking-cap enable debugging <i>switch-number</i> pri prompt of the stac privileged EXEC first starting a ses	able switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session vileged EXEC command. Then enter the debug command at the command-line k member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without sion.

debug platform acl

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

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

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

 isplay all ACL manager debug messages. isplay ACL exit-related debug messages. isplay ACL label-related debug messages. isplay the main or important ACL debug messages. isplay router ACL related debug messages. isplay ACL stack-related debug messages. isplay ACL stack-related debug messages. isplay VLAN ACL-related debug messages. isplay ACL VLAN-map-related debug messages. isplay ACL warning-related debug messages.
isplay ACL label-related debug messages. isplay the main or important ACL debug messages. isplay router ACL related debug messages. isplay ACL stack-related debug messages. his keyword is supported only on the Catalyst Switch Module 3110. isplay VLAN ACL-related debug messages. isplay ACL VLAN-map-related debug messages. isplay ACL VLAN-map-related debug messages. isplay ACL warning-related debug messages. isplay ACL warning-related debug messages.
isplay the main or important ACL debug messages. isplay router ACL related debug messages. isplay ACL stack-related debug messages. his keyword is supported only on the Catalyst Switch Module 3110. isplay VLAN ACL-related debug messages. isplay ACL VLAN-map-related debug messages. isplay ACL warning-related debug messages. h the command-line help strings, the racl and stack keywords are not supported on the
isplay router ACL related debug messages. isplay ACL stack-related debug messages. his keyword is supported only on the Catalyst Switch Module 3110. isplay VLAN ACL-related debug messages. isplay ACL VLAN-map-related debug messages. isplay ACL warning-related debug messages. h the command-line help strings, the racl and stack keywords are not supported on the
isplay ACL stack-related debug messages. his keyword is supported only on the Catalyst Switch Module 3110. isplay VLAN ACL-related debug messages. isplay ACL VLAN-map-related debug messages. isplay ACL warning-related debug messages. h the command-line help strings, the racl and stack keywords are not supported on the
his keyword is supported only on the Catalyst Switch Module 3110. isplay VLAN ACL-related debug messages. isplay ACL VLAN-map-related debug messages. isplay ACL warning-related debug messages. in the command-line help strings, the racl and stack keywords are not supported on the
isplay VLAN ACL-related debug messages. isplay ACL VLAN-map-related debug messages. isplay ACL warning-related debug messages.
isplay ACL VLAN-map-related debug messages. isplay ACL warning-related debug messages.
isplay ACL warning-related debug messages.
n the command-line help strings, the racl and stack keywords are not supported on the
n the command-line help strings, the racl and stack keywords are not supported on the Module 3012.
abled.
Modification
This command was introduced.

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

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

debug platform backup interface

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

debug platform backup interface

no debug platform backup interface

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

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

debug platform cli-redirection main

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

debug platform cli-redirection main

no debug platform cli-redirection main

Note

This command is supported only on the Catalyst Switch Module 3110.

Syntax Description	This command has	no arguments or keywords.
Defaults	Debugging is disabl	led.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	cli-redirection mai	
	enable debugging or <i>switch-number</i> privi prompt of the stack	ble switch, when you enable debugging, it is enabled only on the stack master. To n a stack member, you can start a session from the stack master by using the session ileged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> ommand on the stack master switch to enable debugging on a member switch without on.

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

debug platform configuration

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

debug platform configuration {all | reception | transmission}

no debug platform configuration {all | reception | transmission}



 Note
 This command is supported only on the Catalyst Switch Module 3110.

 Syntax Description
 all
 Display debug messages for all configuration file transmission and reception events

	throughout the stack.	ľ
reception	Display debug messages for configuration file re	ception from other stack members.
transmission	Display debug messages for configuration file tra	ansmission to other stack members.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

debug platform cpu-queues

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	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

debug platform 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}

This command is supported only on the Catalyst Switch Module 3110.

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	
	Release	
Command History	neiease	Modification
Command History	12.2(40)EX2	This command was introduced.
	12.2(40)EX2	This command was introduced. tform device-manager command is the same as the no debug platform
Command History Usage Guidelines	The undebug plat device-manager On a stacking-cap enable debugging <i>switch-number</i> pri prompt of the stac	This command was introduced. tform device-manager command is the same as the no debug platform command. able switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session ivileged EXEC command. Then enter the debug command at the command-line tk member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
	12.2(40)EX2The undebug plandevice-manager ofOn a stacking-capenable debuggingswitch-numberprimprompt of the stacprivileged EXEC of	This command was introduced. tform device-manager command is the same as the no debug platform command. able switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session ivileged EXEC command. Then enter the debug command at the command-line tk member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without

debug platform dot1x

Use the **debug platform dot1x** privileged EXEC command to enable debugging of IEEE 802.1x events. On the Catalyst Switch Module 3110, this command enables debugging of stack-related IEEE 802.1x events. Use the **no** form of this command to disable debugging.

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

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

Syntax Description	initialization	Display IEEE 802.1x-authentication initialization sequence debug messages.
	interface-configuration	Display IEEE 802.1x interface configuration-related debug messages.
	грс	Display IEEE 802.1x remote procedure call (RPC) request debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification This command was introduced
Command History	Release 12.2(40)EX2	Modification This command was introduced.
	12.2(40)EX2	
	12.2(40)EX2 The undebug platform of On a stacking-capable swenable debugging on a st switch-number privileged prompt of the stack memory of t	This command was introduced. dot1x command is the same as the no debug platform dot1x command. witch, when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session d EXEC command. Then enter the debug command at the command-line aber. You also can use the remote command stack-member-number LINE
Command History Usage Guidelines Related Commands	12.2(40)EX2 The undebug platform of On a stacking-capable swenable debugging on a st switch-number privileged prompt of the stack mem privileged EXEC comma	This command was introduced. dot1x command is the same as the no debug platform dot1x command. witch, when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session d EXEC command. Then enter the debug command at the command-line

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 disal	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug plat command.	tform etherchannel command is the same as the no debug platform etherchannel
	enable debugging switch-number pri prompt of the stac	able switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session vileged EXEC command. Then enter the debug command at the command-line k member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without sion.
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)EX2	This command was introduced.
Usage Guidelines	If you do not specify a ke	eyword, all fallback bridging manager debug messages appear.
	The undebug platform f fallback-bridging comm	allback-bridging command is the same as the no debug platform and.
	enable debugging on a sta switch-number privileged prompt of the stack mem	vitch, when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session I EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i> nd on the stack master switch to enable debugging on a member switch without
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform forw-tcam

Use the **debug platform forw-tcam** privileged EXEC command to enable debugging of the forwarding hardware memory manager. Use the **no** form of this command to disable debugging.

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

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

Syntax Description	adjustment	(Optional) Display hardware manager adjustment debug messages.
	allocate	(Optional) Display hardware manager allocation debug messages.
	audit	(Optional) Display hardware manager audit messages.
	error	(Optional) Display hardware manager error messages.
	move	(Optional) Display hardware manager move messages.
	read	(Optional) Display hardware manager read messages.
	write	(Optional) Display hardware manager write messages.
Defaults	Debugging is disa	abled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
Command History	Release 12.2(40)EX2	Modification This command was introduced.
	12.2(40)EX2	
	12.2(40)EX2 If you do not spec	This command was introduced.
Command History Usage Guidelines	12.2(40)EX2If you do not specThe undebug placommand.On a stacking-capenable debuggingswitch-numberprompt of the stace	This command was introduced. cify a keyword, all forwarding hardware manager debug messages appear. tform forw-tcam command is the same as the no debug platform forw-tcam vable switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session ivileged EXEC command. Then enter the debug command at the command-line ck member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
	12.2(40)EX2 If you do not spec The undebug pla command. On a stacking-cap enable debugging <i>switch-number</i> pri prompt of the stac privileged EXEC	This command was introduced. cify a keyword, all forwarding hardware manager debug messages appear. tform forw-tcam command is the same as the no debug platform forw-tcam vable switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session ivileged EXEC command. Then enter the debug command at the command-line ck member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without

debug platform ip arp inspection

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

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

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

Syntax Description	all	Display all dynamic ARP inspection debug messages.
	error	Display dynamic ARP inspection error debug messages.
	event	Display dynamic ARP inspection event debug messages.
	packet	Display dynamic ARP inspection packet-related debug messages.
	rpc	Display dynamic ARP inspection remote procedure call (RPC) request debug messages.
Defaults	Debugging is disab	led.
Command Modes	Privileged EXEC	
Command History	Release	
oominana mistory	nereuse	Modification
ooniniana mistory	12.2(40)EX2	Modification This command was introduced.
Usage Guidelines	12.2(40)EX2 The undebug plat	This command was introduced. form ip arp inspection command is the same as the no debug platform ip arp
	12.2(40)EX2 The undebug plath inspection comma On a stacking-capa enable debugging c switch-number prive prompt of the stack	This command was introduced. form ip arp inspection command is the same as the no debug platform ip arp nd. ble switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session rileged EXEC command. Then enter the debug command at the command-line at member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
Usage Guidelines	12.2(40)EX2 The undebug plath inspection comma On a stacking-capa enable debugging c switch-number priv prompt of the stack privileged EXEC communication	This command was introduced. form ip arp inspection command is the same as the no debug platform ip arp nd. ble switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session rileged EXEC command. Then enter the debug command at the command-line at member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
	12.2(40)EX2 The undebug plath inspection comma On a stacking-capa enable debugging c switch-number priv prompt of the stack privileged EXEC co first starting a sess	This command was introduced. form ip arp inspection command is the same as the no debug platform ip arp nd. ble switch, when you enable debugging, it is enabled only on the stack master. To on a stack member, you can start a session from the stack master by using the session rileged EXEC command. Then enter the debug command at the command-line at member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without ion.

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	
	Delesse	
Command History	Release	Modification
Command History	12.2(40)EX2	This command was introduced.
Command History Usage Guidelines	12.2(40)EX2 The undebug platform in On a stacking-capable sw enable debugging on a sta switch-number privileged prompt of the stack member	
Usage Guidelines	12.2(40)EX2The undebug platform ipOn a stacking-capable swenable debugging on a staswitch-numberprivilegedprompt of the stack membprivileged EXEC command	This command was introduced. p dhcp command is the same as the no debug platform ip dhcp command. itch, when you enable debugging, it is enabled only on the stack master. To ick member, you can start a session from the stack master by using the session EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i>
	12.2(40)EX2 The undebug platform ig On a stacking-capable sw enable debugging on a sta <i>switch-number</i> privileged prompt of the stack memb privileged EXEC commar first starting a session.	This command was introduced. p dhcp command is the same as the no debug platform ip dhcp command. itch, when you enable debugging, it is enabled only on the stack master. To ick member, you can start a session from the stack master by using the session EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i> and on the stack master switch to enable debugging on a member switch without
Usage Guidelines	12.2(40)EX2 The undebug platform if On a stacking-capable sw enable debugging on a sta <i>switch-number</i> privileged prompt of the stack memb privileged EXEC comman first starting a session.	This command was introduced. p dhcp command is the same as the no debug platform ip dhcp command. itch, when you enable debugging, it is enabled only on the stack master. To ick member, you can start a session from the stack master by using the session EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i> and on the stack master switch to enable debugging on a member switch without Description

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	Display IGMP snooping remote procedure call (RPC) event debug messages.
	vlan]	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.
		This keyword is supported only on the Catalyst Switch Module 3110.
		• misc —(Optional) IGMP snooping miscellaneous RPC debug messages.
		• vlan—(Optional) IGMP snooping VLAN assert RPC debug messages.
	warn	Display IGMP snooping warning messages.
Note	Though visible in the co Catalyst Switch Module	ommand-line help strings, the rpc l3mm keywords are not supported on the e 3012.
faults	Debugging is disabled.	
nmand Modes	Privileged EXEC	
nmand Modes	Privileged EXEC	
nmand Modes nmand History	Privileged EXEC Release	Modification
		Modification This command was introduced.
	Release	
	Release 12.2(40)EX2	
nmand History	Release12.2(40)EX2The undebug platform snooping command.On a stacking-capable s enable debugging on a s switch-number privilege prompt of the stack men	This command was introduced. ip igmp snooping command is the same as the no debug platform ip igmp switch, when you enable debugging, it is enabled only on the stack master. To stack member, you can start a session from the stack master by using the session ed EXEC command. Then enter the debug command at the command-line mber. You also can use the remote command <i>stack-member-number LINE</i>
mmand History age Guidelines	Release12.2(40)EX2The undebug platform snooping command.On a stacking-capable s enable debugging on a s switch-number privilege prompt of the stack mer privileged EXEC comm first starting a session.	This command was introduced. This command was introduced. This property is a property of the stack matter in the stack master is a property of the stack master is a property of the stack master. To stack member, you can start a session from the stack master by using the session ed EXEC command. Then enter the debug command at the command-line mber. You also can use the remote command <i>stack-member-number LINE</i> hand on the stack master switch to enable debugging on a member switch without
nmand History	Release 12.2(40)EX2 The undebug platform snooping command. On a stacking-capable senable debugging on a senable debuggi	This command was introduced. a ip igmp snooping command is the same as the no debug platform ip igmp switch, when you enable debugging, it is enabled only on the stack master. To stack member, you can start a session from the stack master by using the session ed EXEC command. Then enter the debug command at the command-line mber. You also can use the remote command <i>stack-member-number LINE</i> land on the stack master switch to enable debugging on a member switch without Description
mmand History age Guidelines	Release12.2(40)EX2The undebug platform snooping command.On a stacking-capable s enable debugging on a s switch-number privilege prompt of the stack mer privileged EXEC comm first starting a session.	This command was introduced. This command was introduced. This property is a property of the stack matter in the stack master is a property of the stack master is a property of the stack master. To stack member, you can start a session from the stack master by using the session ed EXEC command. Then enter the debug command at the command-line mber. You also can use the remote command <i>stack-member-number LINE</i> hand on the stack master switch to enable debugging on a member switch without

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 disable	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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.		
		This keyword is supported only on the Catalyst Switch Module 3110.		
	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

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Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug platfor	m ip unicast command is the same as the no debug platform ip unicast command.
	enable debugging on a <i>switch-number</i> privile prompt of the stack m	e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session eged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> umand on the stack master switch to enable debugging on a member switch without a.
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 Catalyst Switch Module 3110 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 di	sabled.
Command Modes	Privileged EXE	C
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Haana Cuidalinaa		
Usage Guidelines		latform ip wccp command is the same as the no debug platform ip wccp command.
	enable debuggir switch-number prompt of the st	apable switch, when you enable debugging, it is enabled only on the stack master. To ig on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line eack member. You also can use the remote command <i>stack-member-number LINE</i> C command on the stack master switch to enable debugging on a member switch without ession.
Related Commands	Command	Description
	show debuggin	•

debug platform ipc

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

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

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



This command is supported only on stacking-capable switches.

Syntax Description	all	Display all platform IPC debug messages.
Chur Doonhion	u11	Note Using this command can degrade the performance of the switch.
	init	Display debug messages related to IPC initialization.
	receive	Display IPC traces each time an IPC packet is received by the switch.
	send	Display IPC traces each time an IPC packet is received by the switch.
	trace	Display IPC trace debug messages, tracing the code path as the IPC functions are executed.
Defaults	Debugging is	disabled.
Command Modes	Privileged EX	EC
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug	platform ipc command is the same as the no debug platform ipc.
	enable debugg switch-number prompt of the	capable switch, when you enable debugging, it is enabled only on the stack master. To ing on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line stack member. You also can use the remote command <i>stack-member-number LINE</i> EC command on the stack master switch to enable debugging on a member switch without session.
Related Commands	Command	Description

debug platform led

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

debug platform led {generic | signal | stack}

no debug platform led {generic | signal | stack}

Syntax Description	generic	Display LED generic action debug messages.
-	signal	Display LED signal bit map debug messages.
	stack	Display LED stack action debug messages.
		This keyword is supported only on the Catalyst Switch Module 3110.
Note	Though visil Switch Mod	ble in the command-line help strings, the stack keyword is not supported on the Catalyst ule 3012.
Defaults	Debugging i	s disabled.
Command Modes	Privileged E	XEC
Command History	Release	Modification
Command History	Release 12.2(40)EX	
	12.2(40)EX	
Command History Usage Guidelines	12.2(40)EX The undebu On a stackin enable debug <i>switch-numb</i> prompt of th	2 This command was introduced. g platform led command is the same as the no debug platform led command. g-capable switch, when you enable debugging, it is enabled only on the stack master. To gging on a stack member, you can start a session from the stack master by using the session er privileged EXEC command. Then enter the debug command at the command-line e stack member. You also can use the remote command stack-member-number LINE XEC command on the stack master switch to enable debugging on a member switch without
	12.2(40)EX The undebu On a stackin enable debug <i>switch-numb</i> prompt of th privileged EX	2 This command was introduced. g platform led command is the same as the no debug platform led command. g-capable switch, when you enable debugging, it is enabled only on the stack master. To gging on a stack member, you can start a session from the stack master by using the session er privileged EXEC command. Then enter the debug command at the command-line e stack member. You also can use the remote command <i>stack-member-number LINE</i> XEC command on the stack master switch to enable debugging on a member switch without

debug platform matm

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

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

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

Syntax Description	aging	Display MAC address aging debug messages.
	all	Display all platform MAC address management event debug messages.
	ec-aging	Display EtherChannel address aging-related debug messages.
	errors	Display MAC address management error messages.
	learning	Display MAC address management address-learning debug messages.
	rpc	Display MAC address management remote procedure call (RPC) related debug messages.
	secure-address	Display MAC address management secure address learning debug messages.
	warning	Display MAC address management warning messages.
Defaults	Debugging is disal	bled.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines		form matm command is the same as the no debug platform matm command. able switch, when you enable debugging, it is enabled only on the stack master. To
	<i>switch-number</i> priprompt of the stack	on a stack member, you can start a session from the stack master by using the session vileged EXEC command. Then enter the debug command at the command-line k member. You also can use the remote command <i>stack-member-number LINE</i> ommand on the stack master switch to enable debugging on a member switch without ion.

debug platform messaging application

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

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

Syntax Description	all	Display all application-messaging debug messages.
	badpak	Display bad-packet debug messages.
	cleanup	Display clean-up debug messages.
	events	Display event debug messages.
	memerr	Display memory-error debug messages.
	messages	Display application-messaging debug messages.
	stackchg	Display stack-change debug messages.
		This keyword is supported only on the Catalyst Switch Module 3110.
	usererr	Display user-error debug messages.
Note	Though visible in the co Switch Module 3012.	ommand-line help strings, the stackchg keyword is not supported on the Catalyst
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	messaging application On a stacking-capable s enable debugging on a s <i>switch-number</i> privileg prompt of the stack me	a messaging application command is the same as the no debug platform a command. switch, when you enable debugging, it is enabled only on the stack master. To stack member, you can start a session from the stack master by using the session ed EXEC command. Then enter the debug command at the command-line mber. You also can use the remote command <i>stack-member-number LINE</i> and on the stack master switch to enable debugging on a member switch without

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

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

debug platform phy

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

debug platform phy {automdix | cablediag | dual-purpose | flcd {configure | ipc | iter | trace} | flowcontrol | forced | init-seq | link-status | read | 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 | 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.
	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



Though visible in the command-line help strings, the \mathbf{sfp} keyword is not supported.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

debug platform pm

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

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

Syntax 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
	soutput-vectors stack-manager	Display IDB output vector event debug messages. Display stack-manager related-events debug messages.

	sync	Display operational synchronization and VLAN line-state event debug messages.
	vlans	Display VLAN creation and deletion event debug messages.
Note	Though visible in the Catalyst Switch Mode	command-line help strings, the stack-manager keyword is not supported on the ule 3012.
Defaults	Debugging is disable	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug platfor	m pm command is the same as the no debug platform pm command.
	enable debugging on <i>switch-number</i> privile prompt of the stack n	e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session eged EXEC command. Then enter the debug command at the command-line nember. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without h.
Related Commands	Command	Description

debug platform port-asic

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

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

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

Syntax Description	interrupt	Display port-ASIC interrupt-related function debug messages.
	periodic	Display port-ASIC periodic-function-call debug messages.
	read	Display port-ASIC read debug messages.
	stack	Display stacking-related function debug messages.
		This keyword is supported only on the Catalyst Switch Module 3110.
	write	Display port-ASIC write debug messages.
Note	Though visible in the Switch Module 3110.	command-line help strings, the stack keyword is not supported on the Catalyst
Defaults	Debugging is disabled	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug platfor	m port-asic command is the same as the no debug platform port-asic command.
	enable debugging on a <i>switch-number</i> privile prompt of the stack m	e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session eged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without h.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug platform port-security

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

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

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

Syntax Description	add	Display secure address addition debug messages.
	aging	Display secure address aging debug messages.
	all	Display all port-security debug messages.
	delete	Display secure address deletion debug messages.
	errors	Display port-security error debug messages.
	rpc	Display remote procedure call (RPC) debug messages.
	warnings	Display warning debug messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug platforn command.	n port-security command is the same as the no debug platform port-security
	enable debugging on a <i>switch-number</i> privileg prompt of the stack me	switch, when you enable debugging, it is enabled only on the stack master. To stack member, you can start a session from the stack master by using the session ed EXEC command. Then enter the debug command at the command-line mber. You also can use the remote command <i>stack-member-number LINE</i> hand on the stack master switch to enable debugging on a member switch without
Related Commands	Command	Description

debug platform qos-acl-tcam

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

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

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

ctcam Display Cisco TCAM (CTCAM) related-events debug messages. errors Display QATM error-related-events debug messages. labels Display QATM label-related-events debug messages. mask Display QATM mask-related-events debug messages. rpc Display QATM mask-related-events debug messages. tcam Display QATM memote procedure call (RPC) related-events debug messages. tcam Display QATM hardware-memory-related events debug messages. tcam Display QATM hardware-memory-related events debug messages. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description show debugging Displays information about the types of	Syntax Description	all	Display all QoS and ACL ternary content addressable memory (QATM) manager debug messages.
labels Display QATM label-related-events debug messages. mask Display QATM mask-related-events debug messages. rpc Display QATM remote procedure call (RPC) related-events debug messages. tcam Display QATM hardware-memory-related events debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		ctcam	
mask Display QATM mask-related-events debug messages. rpc Display QATM remote procedure call (RPC) related-events debug messages. tcam Display QATM hardware-memory-related events debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master privileged EXEC command. The network the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		errors	Display QATM error-related-events debug messages.
rpc Display QATM remote procedure call (RPC) related-events debug messages. tcam Display QATM hardware-memory-related events debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command 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		labels	Display QATM label-related-events debug messages.
tam Display QATM hardware-memory-related events debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		mask	Display QATM mask-related-events debug messages.
Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		rpc	Display QATM remote procedure call (RPC) related-events debug messages.
Command Modes Privileged EXEC Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. The enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		tcam	Display QATM hardware-memory-related events debug messages.
Command History Release Modification 12.2(40)EX2 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description	Defaults	Debugging is disab	led.
12.2(40)EX2 This command was introduced. Usage Guidelines The undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description	Command Modes	Privileged EXEC	
Usage GuidelinesThe undebug platform qos-acl-tcam command is the same as the no debug platform qos-acl-tcam command.On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.Related CommandsCommandDescription	Command History	Release	Modification
command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description		12.2(40)EX2	This command was introduced.
enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.Related CommandsCommandDescription	Usage Guidelines	••	form qos-acl-tcam command is the same as the no debug platform qos-acl-tcam
		enable debugging o switch-number priv prompt of the stack privileged EXEC co	on a stack member, you can start a session from the stack master by using the session rileged EXEC command. Then enter the debug command at the command-line to member. You also can use the remote command <i>stack-member-number LINE</i> command on the stack master switch to enable debugging on a member switch without
	Related Commands	Command	Description
			•

debug platform remote-commands

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

debug platform remote-commands

no debug platform remote-commands

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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

debug platform resource-manager

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

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

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

Cuntary Description		
Syntax Description	all	Display all resource manager debug messages.
	dm	Display destination-map debug messages.
	erd	Display equal-cost-route descriptor-table debug messages.
	errors	Display error debug messages.
	madmed	Display the MAC address descriptor table and multi-expansion descriptor table debug messages.
	sd	Display the station descriptor table debug messages.
	stats	Display statistics debug messages.
	vld	Display the VLAN-list descriptor debug messages.
Defeulte	Debugging in di	
Defaults	Debugging is di	Isabled.
Command Modes	Privileged EXE	C
Command History	Release	Modification
Command History	Release 12.2(40)EX2	Modification This command was introduced.
	12.2(40)EX2	This command was introduced.
	12.2(40)EX2 The undebug p resource-mana On a stacking-c enable debuggin <i>switch-number</i> prompt of the st	This command was introduced. Command was introduced. Command on the stack master switch to enable debugging on a member switch without
Command History Usage Guidelines Related Commands	12.2(40)EX2 The undebug p resource-mana On a stacking-c enable debuggin <i>switch-number</i> prompt of the st privileged EXE	This command was introduced. Command was introduced. Command on the stack master switch to enable debugging on a member switch without

debug platform snmp

debug platform snmp

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

debug platform snmp

no 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)EX2	This command was introduced.

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

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

debug platform span

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

debug platform span

no debug platform span

Syntax Description This command has no arguments or keywords.

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

debug platform stack-manager

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

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

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



This command is supported only on the Catalyst Switch Module 3110.

Related Commands	first starting a so Command show debuggin	Description
		ession.
	enable debuggin switch-number p prompt of the st	apable switch, when you enable debugging, it is enabled only on the stack master. To ag on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line ack member. You also can use the remote command <i>stack-member-number LINE</i> C command on the stack master switch to enable debugging on a member switch without
Usage Guidelines	The undebug pl stack-manager	latform stack-manager command is the same as the no debug platform command.
	12.2(40)EX2	This command was introduced.
Command History	Release	Modification
Command Modes	Privileged EXE	с
Defaults	Debugging is di	sabled.
	trace	Trace the stack manager entry and exit debug messages.
	ssm	Display the stack state-machine debug messages.
	sim	Display the stack information module debug messages.
	sdp	Display the Stack Discovery Protocol (SDP) debug messages.
-,	rpc	Display stack manager remote procedure call (RPC) usage debug messages.
Syntax Description	all	Display all stack manager debug messages.

debug platform supervisor-asic

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

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

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

Syntax Description		
Syntax Description	all	Display all supervisor-ASIC event debug messages.
	errors	Display the supervisor-ASIC error debug messages.
	receive	Display the supervisor-ASIC receive debug messages.
	send	Display the supervisor-ASIC send debug messages.
Defaults	Debugging is disabled	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines		m supervisor-asic command is the same as the no debug platform
	The undebug platfor supervisor-asic comr On a stacking-capable enable debugging on a <i>switch-number</i> privile prompt of the stack m	m supervisor-asic command is the same as the no debug platform nand. e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session eged EXEC command. Then enter the debug command at the command-line hember. You also can use the remote command <i>stack-member-number LINE</i> umand on the stack master switch to enable debugging on a member switch without
	The undebug platfor supervisor-asic comr On a stacking-capable enable debugging on a <i>switch-number</i> privile prompt of the stack m privileged EXEC com	m supervisor-asic command is the same as the no debug platform nand. e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session eged EXEC command. Then enter the debug command at the command-line hember. You also can use the remote command <i>stack-member-number LINE</i> umand on the stack master switch to enable debugging on a member switch without

debug platform sw-bridge

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

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

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

Syntax Description	broadcast	Display broadcast-data debug messages.
	control	Display protocol-packet debug messages.
	multicast	Display multicast-data debug messages.
	packet	Display sent and received data debug messages.
	unicast	Display unicast-data debug messages.
Defaults	Debugging is disabled	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug platfor command.	m sw-bridge command is the same as the no debug platform sw-bridge
	On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. enable debugging on a stack member, you can start a session from the stack master by using the ses <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 with first starting a session.	
Related Commands	Command	Description

debug platform tcam

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

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

Syntax Description	log l2 {acl {input output} local qos}	Display Layer 2 field-based CAM look-up type debug messages. The keywords have these meanings:
		• acl {input output}—Display input or output ACL look-up debug messages.
		• local —Display local forwarding look-up debug messages.
		• qos —Display classification and quality of service (QoS) look-up debug messages.
	13 {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	Modification
	12.2(40)EX2	This command was introduced.

Cisco Catalyst Switch Module 3110 and 3012 for IBM BladeCenter Command Reference

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

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

debug platform udld

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

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

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

Syntax Description	all	(Optional) Display all UDLD debug messages.
	error	(Optional) Display error condition debug messages.
	rpc {events messages}	(Optional) Display UDLD remote procedure call (RPC) debug messages. The keywords have these meanings:
		• events—Display UDLD RPC events.
		• messages—Display UDLD RPC messages.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
	The undebug platform udld command is the same as the no debug platform udld command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. If enable debugging on a stack member, you can start a session from the stack master by using the sest <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 with first starting a session.	
Usage Guidelines	On a stacking-capable sw enable debugging on a sta switch-number privileged prompt of the stack member	vitch, when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session I EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i>
Usage Guidelines Related Commands	On a stacking-capable sw enable debugging on a sta switch-number privileged prompt of the stack member privileged EXEC comman	vitch, when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session I EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i>

debug platform vlan

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

debug platform vlan {errors | mvid | rpc}

no debug platform vlan {errors | mvid | rpc}

Syntax Description	errors	Display VLAN error debug messages.
	mvid	Display mapped VLAN ID allocations and free debug messages.
	rpc	Display remote procedure call (RPC) debug messages.
Defaults	Debugging is disabled	1.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug platfor	m vlan command is the same as the no debug platform vlan command.
	On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.	
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.

debug 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 Debuggin

Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

debug port-security

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

debug port-security

no debug port-security

Syntax Description This command has no arguments or keywords
--

Defaults Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

debug qos-manager

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

debug qos-manager {all | event | verbose}

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

Syntax Description	all	Display all QoS-manager debug messages.
	event	Display QoS-manager related-event debug messages.
	verbose	Display QoS-manager detailed debug messages.
Defaults	Debugging is disabl	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug qos-manager command is the same as the no debug qos-manager command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. enable debugging on a stack member, you can start a session from the stack master by using the ses <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 with first starting a session.	
Related Commands	Command show debugging	Description Displays information about the types of debugging that are enabled.

debug spanning-tree

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

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

yntax Description	all	Display all spanning-tree debug messages.
	backbonefast	Display BackboneFast-event debug messages.
	bpdu	Display spanning-tree bridge protocol data unit (BPDU) debug messages.
	bpdu-opt	Display optimized BPDU handling debug messages.
	config	Display spanning-tree configuration change debug messages.
	csuf/csrt	Display cross-stack UplinkFast and cross-stack rapid transition activity debug messages.
		This keyword is supported only on the Catalyst Switch Module 3110.
	etherchannel	Display EtherChannel-support debug messages.
	events	Display spanning-tree topology event debug messages.
	exceptions	Display spanning-tree exception debug messages.
	general	Display general spanning-tree activity debug messages.
	mstp	Debug Multiple Spanning Tree Protocol events.
	pvst+	Display per-VLAN spanning-tree plus (PVST+) event debug messages.
	root	Display spanning-tree root-event debug messages.
	snmp	Display spanning-tree Simple Network Management Protocol (SNMP) handling debug messages.
	synchronization	Display the spanning-tree synchronization event debug messages.
	switch	Display switch shim command debug messages. This shim is the software module that is the interface between the generic Spanning Tree Protocol (STP) code and the platform-specific code of various switch platforms.
	uplinkfast	Display UplinkFast-event debug messages.

Note

Though visible in the command-line help strings, the **csuf/csrt** keyword is not supported on the Catalyst Switch Module 3110.

Defaults

Debugging is disabled.

Command Modes Privileged EXEC

Command History	Release	Modification
	12.2(40)EX2	This command was introduced.

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

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

debug spanning-tree backbonefast

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

debug spanning-tree backbonefast [detail | exceptions]

no debug spanning-tree backbonefast [detail | exceptions]

Syntax Description	detail	(Optional) Display detailed BackboneFast debug messages.	
	exceptions	(Optional) Display spanning-tree BackboneFast-exception debug messages.	
Defaults	Debugging is dis	abled.	
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(40)EX2	This command was introduced.	
Usage Guidelines	The undebug sp backbonefast co	anning-tree backbonefast command is the same as the no debug spanning-tree ommand.	
	On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.		
Related Commands	Command	Description	
	show debugging	g Displays information about the types of debugging that are enabled.	

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 dis		
Command Modes	Privileged EXEC		
Command History	Release	Modification	
-	12.2(40)EX2	This command was introduced.	
Usage Guidelines	The undebug sp a command.	anning-tree bpdu command is the same as the no debug spanning-tree bpdu	
	On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.		
Related Commands	Command	Description	
	show debugging	Displays information about the types of debugging that are enabled.	

Displays spanning-tree state information.

show spanning-tree

debug spanning-tree bpdu-opt

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

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

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

Syntax Description	detail	(Optional) Display detailed optimized BPDU-handling debug messages.		
	packet	(Optional) Display packet-level optimized BPDU-handling debug messages.		
Defaults	Debugging is disab	Debugging is disabled.		
Command Modes	Privileged EXEC			
Command History	Release	Modification		
	12.2(40)EX2	This command was introduced.		
Usage Guidelines	The undebug spanning-tree bpdu-opt command is the same as the no debug spanning-tree bpdu-opt command.			
	On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.			
Related Commands	Command	Description		
	show debugging	Displays information about the types of debugging that are enabled.		
	show spanning-tr	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.
Defaults	Debugging is di	sabled.
Command Modes	Privileged EXE	C
Command History	Release	Modification
	12.2(40)EX2	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	EC	
Command History	Release	Modification	
	12.2(40)EX2	This command was introduced.	

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

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

debug spanning-tree uplinkfast

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

debug spanning-tree uplinkfast [exceptions]

no debug spanning-tree uplinkfast [exceptions]

Syntax Description	exceptions (Opt	ional) Display spanning-tree UplinkFast-exception debug messages.	
Defaults	Debugging is disabled.		
Command Modes	Privileged EXEC		
Command History	Release	Modification	
	12.2(40)EX2	This command was introduced.	
Usage dulucinies	uplinkfast command.		
Usage Guidelines	The undebug spanning-tree uplinkfast command is the same as the no debug spanning-tree uplinkfast command. On a stacking-capable switch, when you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line		
	prompt of the stack me	mber. You also can use the remote command <i>stack-member-number LINE</i> nand on the stack master switch to enable debugging on a member switch without	
Related Commands	Command	Description	
	show debugging	Displays information about the types of debugging that are enabled.	
	show spanning-tree	Displays spanning-tree state information.	

debug sw-vlan

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

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

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

Syntax Description	badpmcookies	Display debug messages for VLAN manager incidents of bad port manager cookies.
	cfg-vlan {bootup cli}	Display config-vlan debug messages. The keywords have these meanings:
		• bootup —Display messages when the switch is booting up.
		• cli —Display messages when the command-line interface (CLI) is in config-vlan mode.
	events	Display debug messages for VLAN manager events.
	ifs	See the debug sw-vlan ifs command.
	management	Display debug messages for VLAN manager management of internal VLANs.
	mapping	Display debug messages for VLAN mapping.
	notification	See the debug sw-vlan notification command.
	packets	Display debug messages for packet handling and encapsulation processes.
	redundancy	Display debug messages for VTP VLAN redundancy.
	registries	Display debug messages for VLAN manager registries.
	vtp	See the debug sw-vlan vtp command.
Defaults	Debugging is disabled.	
Command Modes	Privileged EXEC	

Command History	Release	Modification
	12.2(40)EX2	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	d.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug sw-vla	n ifs command is the same as the no debug sw-vlan ifs command.
	enable debugging on switch-number privile prompt of the stack n	e switch, when you enable debugging, it is enabled only on the stack master. To a stack member, you can start a session from the stack master by using the session eged EXEC command. Then enter the debug command at the command-line nember. You also can use the remote command <i>stack-member-number LINE</i> mand on the stack master switch to enable debugging on a member switch without h.
	verification word and contains most of the o	le read operation, Operation 1 reads the file header, which contains the header the file version number. Operation 2 reads the main body of the file, which domain 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	Debugging is disabled.	
Delaults	Debugging is disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	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
	enable debugging on a sta switch-number privileged prompt of the stack mem	witch, when you enable debugging, it is enabled only on the stack master. To ack member, you can start a session from the stack master by using the session d EXEC command. Then enter the debug command at the command-line ber. You also can use the remote command <i>stack-member-number LINE</i> nd on the stack master switch to enable debugging on a member switch without

Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
	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)EX2	This command was introduced.	
	_		
Usage Guidelines	The undebug sw-vlan vtp command is the same as the no debug sw-vlan vtp command.		
	enable debugging on a star switch-number privileged prompt of the stack memb privileged EXEC comman	itch, when you enable debugging, it is enabled only on the stack master. To ck member, you can start a session from the stack master by using the session EXEC command. Then enter the debug command at the command-line per. You also can use the remote command <i>stack-member-number LINE</i> d on the stack master switch to enable debugging on a member switch without	
	first starting a session.		

If no further parameters are entered after the **pruning keyword**, VTP pruning debugging messages appear. They are generated by the VTP_PRUNING_LOG_NOTICE, VTP_PRUNING_LOG_INFO, VTP_PRUNING_LOG_DEBUG, VTP_PRUNING_LOG_ALERT, and VTP_PRUNING_LOG_WARNING macros in the VTP pruning code.

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

debug udld

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

debug udld {events | packets | registries}

no debug udld {events | packets | registries}

Syntax Description	events	Display debug messages for UDLD process events as they occur.	
	packets	Display debug messages for the UDLD process as it receives packets from the packet queue and tries to send them at the request of the UDLD protocol code.	
	registries	Display debug messages for the UDLD process as it processes registry calls from the UDLD process-dependent module and other feature modules.	
Defaults	Debugging is d	isabled.	
Command Modes	Privileged EXE	EC	
Command History	Release	Modification	
	12.2(40)EX2	This command was introduced.	
Usage Guidelines	On a stacking- enable debuggi switch-number prompt of the s	add command is the same as the no debug udld command. capable switch, when you enable debugging, it is enabled only on the stack master. To ng on a stack member, you can start a session from the stack master by using the session privileged EXEC command. Then enter the debug command at the command-line stack member. You also can use the remote command <i>stack-member-number LINE</i> EC command on the stack master switch to enable debugging on a member switch without session.	
	For debug udld events, these debugging messages appear:		
	General UDLD program logic flow		
	State machine state changes		
	• Program actions for the set and clear ErrDisable state		
	• Neighbor c	cache additions and deletions	
	Processing	of configuration commands	
	Processing	of link-up and link-down indications	

For debug udld packets, these debugging messages appear:

- General packet processing program flow on receipt of an incoming packet
- Indications of the contents of the various pieces of packets received (such as type length versions [TLVs]) as they are examined by the packet reception code
- Packet transmission attempts and the outcome

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

- Sub-block creation
- Fiber-port status changes
- State change indications from the port manager software
- MAC address registry calls

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

debug vqpc

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

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

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

Syntax Description	all	(Optional) Display all VQP client debug messages.
	cli	(Optional) Display the VQP client command-line interface (CLI) debug messages.
	events	(Optional) Display VQP client event debug messages.
	learn	(Optional) Display VQP client address learning debug messages.
	packet	(Optional) Display VQP client packet information debug messages.
Defaults	Debugging is disabl	ed.
Command Modes	Privileged EXEC	
Command History	Release	Modification
	12.2(40)EX2	This command was introduced.
Usage Guidelines	The undebug vqpc	command is the same as the no debug vqpc command.
	enable debugging of switch-number prive prompt of the stack	ble switch, when you enable debugging, it is enabled only on the stack master. To n a stack member, you can start a session from the stack master by using the session ileged EXEC command. Then enter the debug command at the command-line member. You also can use the remote command <i>stack-member-number LINE</i> mmand on the stack master switch to enable debugging on a member switch without on.
Related Commands	Command	Description
	show debugging	Displays information about the types of debugging that are enabled.
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