



Catalyst 3750 Switch Debug Commands

This appendix describes the **debug** privileged EXEC commands that have been created or changed for use with the Catalyst 3750 switch. These commands are helpful in diagnosing and resolving internetworking problems and should be enabled only under the guidance of Cisco technical support staff.



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

debug auto qos

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

debug auto qos

no debug auto qos

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

 Release
 Modification

 12.1(14)EA1
 This command was introduced.

 12.2(18)SE
 The debug auto qos command replaced the debug autoqos command.

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

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

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

Examples

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

Switch# debug auto qos AutoQoS debugging is on Switch# configure terminal Enter configuration commands, one per line. End with CNTL/Z. Switch(config)# interface gigabitethernet2/0/1 Switch(config-if)# auto qos voip cisco-phone 21:29:41: mls qos map cos-dscp 0 8 16 26 32 46 48 56 21:29:41: mls qos 21:29:42: no mls qos srr-queue input cos-map 21:29:42: no mls qos srr-queue output cos-map 21:29:42: mls qos srr-queue input cos-map 21:29:42: mls qos srr-queue input cos-map queue 1 threshold 3 0 21:29:42: mls qos srr-queue input cos-map queue 1 threshold 2 1

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

debug backup

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

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

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

| Syntax Description | all | Display all backup interface debug messages. |
|--------------------|---|---|
| - | errors | Display backup interface error or exception debug messages. |
| | events | Display backup interface event debug messages. |
| | vlan-load- balancing | Display backup interface VLAN load balancing. |
| Defaults | Backup interface de | ebugging is disabled. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.2(20)SE | This command was introduced. |
| | 12.2(37)SE | Added vlan-load-balancing keyword. |
| | | |
| Usage Guidelines | The undebug back | up command is the same as the no debug backup command. |
| Usage Guidelines | When you enable do member, you can st EXEC command. Th also can use the rem | ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You |
| Usage Guidelines | When you enable do member, you can st EXEC command. Th also can use the rem | ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack |

debug cisp

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

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

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

| Syntax Description | all | Display all CISP debug messages. |
|--------------------|--|--|
| - • | errors | Display CISP debug messages. |
| | events | Display CISP event debug messages. |
| | packets | Display CISP packet debug messages. |
| | sync | Display CISP operational synchronization debug messages. |
| Defaults | Debugging is disabled. | |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.2(50)SE | This command was introduced. |
| | | |
| Related Commands | Command | Description |
| | cisp enable | Enables Client Information Signalling Protocol (CISP) |
| | dot1x credentials (global configuration) profile | Configures a profile on a supplicant switch. |
| | projue | |

debug cluster

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

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

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

| Syntax Description | discovery | Display cluster discovery debug messages. | |
|--------------------|--|--|--|
| | events | Display cluster event debug messages. | |
| | extended | Display extended discovery debug messages. | |
| | hsrp | Display the Hot Standby Router Protocol (HSRP) debug messages. | |
| | http | Display Hypertext Transfer Protocol (HTTP) debug messages. | |
| | ip [packet] members | Display IP or transport packet debug messages. | |
| | | Display cluster member debug messages. | |
| | nat | Display Network Address Translation (NAT) debug messages. | |
| | neighbors | Display cluster neighbor debug messages. | |
| | platform | Display platform-specific cluster debug messages. | |
| | snmp | Display Simple Network Management Protocol (SNMP) debug messages. | |
| | vqpxy | Display VLAN Query Protocol (VQP) proxy debug messages. | |
| Command Modes | Privileged EXEC | | |
| Command History | Release | Modification | |
| | 12.1(11)AX | This command was introduced. | |
| Usage Guidelines | This command is | available only on the cluster command switch stack or cluster command switch. | |
| | The undebug cluster command is the same as the no debug cluster command. | | |
| | member, you can EXEC command. | debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack | |

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

debug dot1x

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

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

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

| Syntax Description | all | Display all IEEE 802.1x authentication debug messages. | |
|---------------------------|--|--|--|
| · , | errors | Display IEEE 802.1x error debug messages. | |
| | events | Display IEEE 802.1x event debug messages. | |
| | feature | Display IEEE 802.1x feature debug messages. | |
| | packets | Display IEEE 802.1x packet debug messages. | |
| | registry | Display IEEE 802.1x registry invocation debug messages. | |
| | state-machine | Display state-machine related-events debug messages. | |
| | | | |
| <u></u> | Though visible in the command-line help strings, the redundancy keyword is not supported. | | |
| Note | Though visible in | the command-line help strings, the redundancy keyword is not supported. | |
| Note Defaults | Though visible in Debugging is disa | | |
| | | abled. | |
| Defaults Command Modes | Debugging is dis | abled. | |
| Defaults Command Modes | Debugging is disa Privileged EXEC Release | abled. | |
| Defaults | Debugging is disa Privileged EXEC | abled. Modification | |

Usage Guidelines

lines The **undebug dot1x** command is the same as the **no debug dot1x** command.

| Related Commands | Command | Description |
|-------------------------|----------------|---|
| | show debugging | Displays information about the types of debugging that are enabled. |
| | show dot1x | Displays IEEE 802.1xstatistics, administrative status, and operational status for the switch or for the specified port. |

debug dtp

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

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

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

| Syntax Description | aggregation | Display DTP user-message aggregation debug messages. |
|-------------------------------------|--|--|
| | all | Display all DTP debug messages. |
| | decision | Display the DTP decision-table debug messages. |
| | events | Display the DTP event debug messages. |
| | oserrs | Display DTP operating system-related error debug messages. |
| | packets | Display DTP packet-processing debug messages. |
| | queue | Display DTP packet-queueing debug messages. |
| | states | Display DTP state-transition debug messages. |
| | timers | Display DTP timer-event debug messages. |
| | | |
| | | |
| Defaults | Debugging is disabl | led. |
| | | |
| | | |
| Command Modes | Privileged EXEC | |
| | | |
| | | |
| 0 | Delegas | |
| Command History | Release | Modification |
| Command History | Release 12.1(11)AX | Modification This command was introduced. |
| Command History | | |
| Command History Usage Guidelines | 12.1(11)AX | |
| | 12.1(11)AXThe undebug dtp cWhen you enable de | This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack |
| | 12.1(11)AX The undebug dtp c When you enable do member, you can sta | This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged |
| | 12.1(11)AX The undebug dtp c When you enable do member, you can sta EXEC command. Th | This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You |
| | 12.1(11)AX The undebug dtp c When you enable do member, you can st EXEC command. Th also can use the rem | This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged |
| Usage Guidelines | 12.1(11)AX The undebug dtp c When you enable do member, you can st EXEC command. Th also can use the rem master switch to ena | This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session. |
| Usage Guidelines | 12.1(11)AX The undebug dtp c When you enable do member, you can sta EXEC command. Th also can use the rem master switch to ena | This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session. |
| | 12.1(11)AX The undebug dtp c When you enable do member, you can st EXEC command. Th also can use the rem master switch to ena | This command was introduced. ommand is the same as the no debug dtp command. ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session. |

debug eap

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

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

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

| Syntax Description | all | Display all EAP debug messages. | |
|--------------------|--|---|--|
| | authenticator | Display authenticator debug messages. | |
| | errors | Display EAP error debug messages. | |
| | events | Display EAP event debug messages. | |
| | md5 | Display EAP-MD5 debug messages. | |
| | packets | Display EAP packet debug messages. | |
| | peer | Display EAP peer debug messages. | |
| | sm | Display EAP state-machine related-events debug messages. | |
| Defaults | Debugging is disabled. | | |
| Command Modes | Privileged EXEC | | |
| Command History | Release | Modification | |
| | 12.2(25)SEE | This command was introduced. | |
| Usage Guidelines | The undebug do | t1x command is the same as the no debug dot1x command. | |
| | When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. | | |
| | also can use the r | remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack | |
| Related Commands | also can use the r | remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack | |
| Related Commands | also can use the r master switch to | remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack enable debugging on a member switch without first starting a session. Description | |

debug etherchannel

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

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

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

| all (| Optional) Display all EtherChannel debug messages. | | | | |
|--|--|--|--|--|--|
| detail (| Optional) Display detailed EtherChannel debug messages. | | | | |
| error | Optional) Display EtherChannel error debug messages. | | | | |
| event | event (Optional) Debug major EtherChannel event messages. | | | | |
| idb (| Optional) Display PAgP interface descriptor block debug messages. | | | | |
| Though visible | in the command-line help strings, the linecard keyword is not supported. | | | | |
| | in the command line help surings, the interard key word is not supported. | | | | |
| Debugging is d | isabled. | | | | |
| Privileged EXE | C | | | | |
| Release | Modification | | | | |
| 12.1(11)AX | This command was introduced. | | | | |
| If you do not sj | becify a keyword, all debug messages appear. | | | | |
| The undebug etherchannel command is the same as the no debug etherchannel command. | | | | | |
| e | le debugging, it is enabled only on the stack master. To enable debugging on a stack | | | | |
| | detail()error()event()idb()Though visibleDebugging is dPrivileged EXERelease12.1(11)AXIf you do not specified on the specified of th | | | | |

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

debug ilpower

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

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

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

| | show power inline | Displays the power status for the specified PoE port or for all PoE |
|------------------|---|---|
| | show controllers powe | er inline Displays the values in the registers of the specified PoE controller. |
| Related Commands | Command | Description |
| | member, you can start a EXEC command. Then e also can use the remote | aging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged enter the debug command at the command-line prompt of the stack member. You command <i>stack-member-number LINE</i> privileged EXEC command on the stack debugging on a member switch without first starting a session. |
| Usage Guidelines | This command is support | rted only on PoE-capable switches. |
| | 12.2(25)SE | The cdp , ha , and powerman keywords were added. |
| | 12.1(19)EA1 | This command was introduced. |
| Command History | Release | Modification |
| Command Modes | Privileged EXEC | |
| Defaults | Debugging is disabled. | |
| | registries | Display PoE registries debug messages. |
| | powerman | Display PoE power management debug messages. |
| | port | Display PoE port manager debug messages. |
| | ha | Display PoE high-availability messages. |
| | controller event | Display PoE controller debug messages. Display PoE event debug messages. |
| | | |

debug interface

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

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

| Syntax Description | interface-id | Display debug messages for the specified physical port, identified by type switch number/module number/ port, for example gigabitethernet 1/0/2 . |
|--------------------|---|---|
| | null interface-number | Display debug messages for null interfaces. The <i>interface-number</i> is always 0 . |
| | port-channel port-channel-number | Display debug messages for the specified EtherChannel port-channel interface. The <i>port-channel-number</i> range is 1 to 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 |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | If you do not specify a k | keyword, all debug messages appear. |
| | The undebug interface command is the same as the no debug interface command. | |
| | member, you can start a EXEC command. Then e also can use the remote | ging, it is enabled only on the stack master. To enable debugging on a stack session from the stack master by using the session <i>switch-number</i> privileged enter the debug command at the command-line prompt of the stack member. Yo command <i>stack-member-number LINE</i> privileged EXEC command on the stack debugging on a member switch without first starting a session. |

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

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

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**}

| | 1 |
|------|---|
| Note | • |

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

| Syntax Description | mac-address | Display debug messages for a DHCP packet with the specified MAC address. |
|--------------------|--|---|
| | agent | Display debug messages for DHCP snooping agents. |
| | event | Display debug messages for DHCP snooping events. |
| | packet | Display debug messages for DHCP snooping. |
| Defaults | Debugging is d | isabled. |
| Command Modes | Privileged EXE | .C |
| Command History | Release | Modification |
| | 12.2(20)SE | This command was introduced. |
| Usage Guidelines | The undebug i | p dhcp snooping command is the same as the no debug ip dhcp snooping command. |
| | When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privilege EXEC command. Then enter the debug command at the command-line prompt of the stack member. also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the st master switch to enable debugging on a member switch without first starting a session. | |
| Related Commands | Command | Description |
| | show debuggi | |

debug ip verify source packet

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

debug ip verify source packet

no debug ip verify source packet

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

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

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.2(20)SE | This command was introduced. |

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

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

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 |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | This command was introduced. |

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

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

debug ip igmp max-groups

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

debug ip igmp max-groups

no debug ip igmp max-groups

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

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | 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 | í. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| | 12.2(25)SEA | The querier keyword was added. |
| Usage Guidelines | | o snooping command is the same as the no debug ip igmp snooping command. ugging, it is enabled only on the stack master. To enable debugging on a stack |
| | EXEC command. Ther also can use the remot | a session from the stack master by using the session <i>switch-number</i> privileged in enter the debug command at the command-line prompt of the stack member. You re command <i>stack-member-number LINE</i> privileged EXEC command on the stack |
| | master switch to enabl | le debugging on a member switch without first starting a session. |
| Related Commands | Command | Description |
| Related Commands | | |

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 |
| | 12.1(14)EA1 | This command was introduced. |
| Usage Guidelines | The undebug lac | command is the same as the no debug lacp command. |
| | member, you can EXEC command. also can use the re | debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You mote command <i>stack-member-number LINE</i> privileged EXEC command on the stack mable debugging on a member switch without first starting a session. |
| Related Commands | Command | Description |
| | show debugging | Displays information about the types of debugging that are enabled. |
| | | |

Displays LACP channel-group information.

show lacp

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debug IIdp packets

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

debug lldp packets

no debug lldp packets

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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

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

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

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

debug mac-notification

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

debug mac-notification

no debug mac-notification

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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | This command was introduced. |

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

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

debug matm

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

debug matm

no debug matm

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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | 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 | | 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(25)SED | 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 |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | The undebug monit | tor command is the same as the no debug monitor command. |
| | member, you can sta EXEC command. Th also can use the rem | ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged nen enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session. |

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

debug mvrdbg

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

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

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

| Syntax Description | all | Display all MVR activity debug messages. |
|--------------------|-------------------|---|
| | events | Display MVR event-handling debug messages. |
| | igmpsn | Display MVR Internet Group Management Protocol (IGMP) snooping-activity |
| | | debug messages. |
| | management | Display MVR management-activity debug messages. |
| | ports | Display MVR port debug messages. |
| | | |
| Defaults | Debugging is disa | bled. |
| Command Madaa | | |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| | | |
| Usage Guidelines | The undebug mv | rdbg command is the same as the no debug mvrdbg command. |
| | • | debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged |

master switch to enable debugging on a member switch without first starting a session.

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| Related Commands | nmands Command Description | |
|-------------------------|----------------------------|---|
| | show debugging | Displays information about the types of debugging that are enabled. |
| | show mvr | Displays the current MVR configuration. |

debug nmsp

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

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

no debug nmsp

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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

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

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

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

debug nvram

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

debug nvram

no debug nvram

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

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

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | This command was introduced. |

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

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

debug pagp

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

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

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

| Syntax Description | all | (Optional) Display all PAgP debug messages. | | | |
|--------------------------------------|---|---|--|--|--|
| | dual-active | | | | |
| | event | (Optional) Display PAgP event debug messages. | | | |
| | fsm | (Optional) Display PAgP finite state-machine debug messages. | | | |
| | misc | (Optional) Display miscellaneous PAgP debug messages. | | | |
| | packet | (Optional) Display PAgP packet debug messages. | | | |
| Defaults | Debugging is di | sabled. | | | |
| Command Modes | Privileged EXE | C | | | |
| Command History | Release | Modification | | | |
| | 12.1(11)AX | This command was introduced. | | | |
| | 12.2(46)SE | The dual-active keyword was added. | | | |
| | | | | | |
| Usage Guidelines | When you enab member, you ca EXEC command also can use the | agp command is the same as the no debug pagp command. le debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session. | | | |
| | When you enab member, you ca EXEC command also can use the | le debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack | | | |
| Usage Guidelines Related Commands | When you enab member, you ca EXEC command also can use the master switch to | le debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session. Description | | | |

debug platform acl

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

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

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

| Related Commands | Command | Description |
|------------------|--|--|
| | | |
| | member, you ca EXEC command also can use the | le debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session. |
| Usage Guidelines | | atform acl command is the same as the no debug platform acl command. |
| | 12.1(11)AX | This command was introduced. |
| Command History | Release | Modification |
| Command Modes | Privileged EXE | C |
| Defaults | Debugging is di | sabled. |
| | warn D | Display ACL warning-related debug messages. |
| | vlmap D | Display ACL VLAN-map-related debug messages. |
| | | Display VLAN ACL-related debug messages. |
| | | Display ACL stack-related debug messages. |
| | | Display the main or important ACL debug messages. Display router ACL related debug messages. |
| | | Display ACL label-related debug messages. |
| | | Display ACL exit-related debug messages. |
| | | |

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. |
|--------------------|--|
|--------------------|--|

Defaults Platform backup interface debugging is disabled.

Command Modes Privileged EXEC

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.2(20)SE | This command was introduced. |

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

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

debug platform cisp

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

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

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

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

debug platform cli-redirection main

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

debug platform cli-redirection main

no debug platform cli-redirection main

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

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | This command was introduced. |

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

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

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

debug platform configuration

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

debug platform configuration {all | reception | transmission}

no debug platform configuration {all | reception | transmission}

| Syntax Description | all | Display debug messages for all configuration file transmission and reception events throughout the stack. |
|--------------------|--|--|
| | reception | Display debug messages for configuration file reception from other stack members. |
| | transmission | Display debug messages for configuration file transmission to other stack members. |
| Defaults | Debugging is di | sabled. |
| Command Modes | Privileged EXE | C |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | command. | latform configuration command is the same as the no debug platform configuration |
| | member, you ca EXEC command also can use the | le debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack o enable debugging on a member switch without first starting a session. |
| Related Commands | Command | Description |
| | show debuggin | g 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 | ed. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| | | |

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

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

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

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debug platform device-manager

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

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

no debug platform device-manager {all | device-info | poll | port-download | trace}

| Syntax Description | all | Display all platform device manager debug messages. |
|--------------------------------------|--|---|
| | device-info | Display platform device manager device structure debug messages. |
| | poll | Display platform device manager 1-second poll debug messages. |
| | port-download | Display platform device manager remote procedure call (RPC) usage debug messages. |
| | trace | Trace platform device manager function entry and exit debug messages. |
| Defaults | Debugging is disa | bled. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| | | |
| Usage Guidelines | The undebug plat device-manager of | form device-manager command is the same as the no debug platform command. |
| Usage Guidelines | device-manager of When you enable member, you can EXEC command. also can use the re | command. debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You |
| Usage Guidelines Related Commands | device-manager of When you enable member, you can EXEC command. also can use the re | command. debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You mote command <i>stack-member-number LINE</i> privileged EXEC command on the stack |

debug platform dot1x

Use the **debug platform dot1x** privileged EXEC command to enable debugging of 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 | | |
|--------------------|--|---|
| Syntax Description | initialization | Display IEEE 802.1x-authentication initialization sequence debug |
| | interface-configuration | messages. Display IEEE 802.1x interface configuration-related debug messages. |
| | rpc | Display IEEE 802.1x interface comparation related debug messages. |
| Defaults | Debugging is disabled. | |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| | | |
| Usage Guidelines | The undebug platform do | ot1x command is the same as the no debug platform dot1x command. |
| Usage Guidelines | When you enable debuggi member, you can start a se EXEC command. Then ent also can use the remote co | ng, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You |
| Usage Guidelines | When you enable debuggi member, you can start a se EXEC command. Then ent also can use the remote co master switch to enable de | ng, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You mmand <i>stack-member-number LINE</i> privileged EXEC command on the stack |

debug platform etherchannel

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

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

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

| Syntax Description | init | Display EtherChannel module initialization debug messages. |
|--------------------|---|--|
| | link-up | Display EtherChannel link-up and link-down related debug messages. |
| | rpc | Display EtherChannel remote procedure call (RPC) debug messages. |
| | warnings | Display EtherChannel warning debug messages. |
| Defaults | Debugging is dis | abled. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | | atform etherchannel command is the same as the no debug platform etherchannel |
| | command. | |
| | When you enable member, you can EXEC command also can use the r | e debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged. Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack enable debugging on a member switch without first starting a session. |
| Related Commands | When you enable member, you can EXEC command also can use the r | start a session from the stack master by using the session <i>switch-number</i> privileged. Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack |

debug platform 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 |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | If you do not specify a key | yword, all fallback bridging manager debug messages appear. |
| | The undebug platform fa fallback-bridging comma | Illback-bridging command is the same as the no debug platform and. |
| | member, you can start a see EXEC command. Then ent also can use the remote co | ng, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You mmand <i>stack-member-number LINE</i> privileged EXEC command on the stack ebugging on a member switch without first starting a session. |
| | | |
| Related Commands | Command | Description |

debug platform forw-tcam

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

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

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

| Syntax Description | adjustment | (Optional) Display TCAM manager adjustment debug messages. |
|--------------------|---|---|
| | allocate | (Optional) Display TCAM manager allocation debug messages. |
| | audit | (Optional) Display TCAM manager audit messages. |
| | error | (Optional) Display TCAM manager error messages. |
| | move | (Optional) Display TCAM manager move messages. |
| | read | (Optional) Display TCAM manager read messages. |
| | write | (Optional) Display TCAM manager write messages. |
| | | |
| Defaults | Debugging is dis | sabled. |
| Command Modes | Privileged EXE | C |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | If you do not spe | ecify a keyword, all forwarding TCAM manager debug messages appear. |
| | The undebug al | |
| | command. | latform forw-tcam command is the same as the no debug platform forw-tcam |
| | command. When you enabl member, you can EXEC command also can use the p | le debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged l. Then enter the debug command at the command-line prompt of the stack member. You |
| Related Commands | command. When you enabl member, you can EXEC command also can use the p | le debugging, it is enabled only on the stack master. To enable debugging on a stack n start a session from the stack master by using the session <i>switch-number</i> privileged d. Then enter the debug command at the command-line prompt of the stack member. You remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack |

debug platform frontend-controller

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

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

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

| Syntax Description | all | Display all the debug messages for front-end controller. |
|--------------------|----------------|---|
| | image | Display Image Manager debug messages. |
| | led | Display LED debug messages. |
| | manager | Display front-end-controller manager debug messages. |
| | poe | Display Power over Ethernet (PoE) debug messages. |
| | register | Display Register Access debug messages. |
| | thermal | Display thermal debug messages. |
| Defaults | Debugging is d | licabled |
| Delauns | Debugging is d | 1820160. |
| Command Modes | Privileged EXE | 3C |
| Command History | Release | Modification |
| | 12.2(20)SE3 | This command was introduced. |
| Usage Guidelines | This command | is only supported on Power over Ethernet switches. |
| | | platform frontend-controller command is the same as the no debug platform |
| | frontend-cont | roller command. |

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

debug platform ip 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 | Modification |
| | 12.2(20)SE | This command was introduced. |
| Usage Guidelines | The undebug plat inspection comma | form ip arp inspection command is the same as the no debug platform ip arp |
| | When you enable of member, you can s EXEC command. T also can use the ren | lebugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged 'hen enter the debug command at the command-line prompt of the stack member. You |
| Related Commands | When you enable of member, you can s EXEC command. T also can use the ren master switch to en | lebugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack hable debugging on a member switch without first starting a session. |
| Related Commands | When you enable of member, you can s EXEC command. T also can use the rer master switch to en | lebugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack hable debugging on a member switch without first starting a session. |

debug platform ip dhcp

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

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

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

| Syntax Description | all | (Optional) Display all DHCP debug messages. | |
|--------------------|--|---|--|
| | error | (Optional) Display DHCP error debug messages. | |
| | event | (Optional) Display DHCP event debug messages. | |
| | packet | (Optional) Display DHCP packet-related debug messages. | |
| | rpc | (Optional) Display DHCP remote procedure call (RPC) request debug messages. | |
| Defaults | Debugging is disabled. | | |
| Command Modes | Privileged EXEC | | |
| Command History | Release | Modification | |
| | 12.1(19)EA1 | This command was introduced. | |
| Usage Guidelines | The undebug platform ip dhcp command is the same as the no debug platform ip dhcp command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. | | |
| | | | |
| Related Commands | Command | Description | |
| Related Commands | Command show ip dhcp snooping | Description Displays the DHCP snooping configuration. | |
| Related Commands | | • | |

debug platform ip igmp snooping

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

- debug platform ip igmp snooping {all | di | error | event | group | mgmt | pak | retry | rpc | warn}
- debug platform ip igmp snooping pak {*ip-address* | error | ipopt | leave| query | report | rx | svi | tx}

debug platform ip igmp snooping rpc [cfg | l3mm | misc | vlan]

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

| Syntax Description | all | Display all IGMP snooping debug messages. |
|--------------------|--|---|
| | di | Display IGMP snooping destination index (di) coordination remote procedure call (RPC) debug messages. |
| | error | Display IGMP snooping error messages. |
| | event | Display IGMP snooping event debug messages. |
| | group | Display IGMP snooping group debug messages. |
| | mgmt | Display IGMP snooping management debug messages. |
| | pak { <i>ip-address</i> error ipopt leave | Display IGMP snooping packet event debug messages. The keywords have these meanings: |
| | query report rx svi tx } | • <i>ip-address</i> —IP address of the IGMP group. |
| | ~ · - · ·) | • error—Display IGMP snooping packet error debug messages. |
| | | • ipopt —Display IGMP snooping IP bridging options debug messages. |
| | | • leave—Display IGMP snooping leave debug messages. |
| | | • query —Display IGMP snooping query debug messages. |
| | | • report —Display IGMP snooping report debug messages. |
| | | • rx —Display IGMP snooping received packet debug messages. |
| | | • svi —Display IGMP snooping switched virtual interface (SVI) packet debug messages. |
| | | • tx—Display IGMP snooping sent packet debug messages. |
| | retry | Display IGMP snooping retry debug messages. |

| | rpc [cfg l3mm misc vlan] | Display IGMP snooping remote procedure call (RPC) event debug messages. The keywords have these meanings: |
|------------------|---|---|
| | | • cfg—(Optional) Display IGMP snooping RPC debug messages. |
| | | • I3mm —(Optional) IGMP snooping Layer 3 multicast router group RPC debug messages. |
| | | • misc —(Optional) IGMP snooping miscellaneous RPC debug messages. |
| | | • vlan—(Optional) IGMP snooping VLAN assert RPC debug messages. |
| | warn | Display IGMP snooping warning messages. |
| Defaults | Debugging is disabled. | |
| | | |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | The undebug platform snooping command. | ip igmp snooping command is the same as the no debug platform ip igmp |
| | member, you can start a EXEC command. Then also can use the remote | gging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged enter the debug command at the command-line prompt of the stack member. You command <i>stack-member-number LINE</i> privileged EXEC command on the stack debugging on a member switch without first starting a session. |
| Related Commands | Command | Description |
| | debug ip igmp snooping | Displays information about platform-independent IGMP snooping activity. |
| | show debugging | Displays information about the types of debugging that are enabled. |
| | | |

debug platform ip multicast

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

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

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

| Syntax Description | all | Display all platform IP-multicast event debug messages. | |
|--------------------|----------------------|--|--|
| | | Note Using this command can degrade the performance of the switch. | |
| | mdb | Display IP-multicast debug messages for multicast distributed fast switching (MDFS) multicast descriptor block (mdb) events. | |
| | mdfs-rp-retry | Display IP-multicast MDFS rendezvous point (RP) retry event debug messages. | |
| | midb | Display IP-multicast MDFS multicast interface descriptor block (MIDB) debug messages. | |
| | mroute-rp | Display IP-multicast RP event debug messages. | |
| | resources | Display IP-multicast hardware resource debug messages. | |
| | retry | Display IP-multicast retry processing event debug messages. | |
| | rpf-throttle | Display IP-multicast reverse path forwarding (RPF) throttle event debug messages. | |
| | snoop-events | Display IP-multicast IGMP snooping event debug messages. | |
| | software-forward | Display IP-multicast software forwarding event debug messages. | |
| | swidb-events | Display IP-multicast MDFS software interface descriptor block (swidb) or global event debug messages. | |
| | vlan-locks | Display IP-multicast VLAN lock and unlock event debug messages. | |
| Defaults | Debugging is disable | d. | |
| Command Modes | Privileged EXEC | | |
| Command History | Release | Modification | |
| | 12.1(11)AX | This command was introduced. | |

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

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

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

debug platform ip source-guard

Use the **debug platform ip source-guard** privileged EXEC command to debug IP source guard events. Use the **no** form of this command to disable debugging.

debug platform ip source-guard {all | error | event}

no debug platform ip source-guard {all | error | event }

| Syntax Description | all Di | splay all IP source-guard platform debug messages. |
|--------------------|--|--|
| | error Di | splay IP source-guard platform error debug messages. |
| | event Di | splay IP source-guard platform event debug messages. |
| efaults | Debugging is disabled. | |
| ommand Modes | Privileged EXEC | |
| | Release | Modification |
| ommand History | | |
| Command History | 12.2(50)SE | This command was introduced. |
| Usage Guidelines | The undebug platform source-guard command | This command was introduced. ip source-guard command is the same as the no debug platform ip d. |
| | The undebug platform | This command was introduced. ip source-guard command is the same as the no debug platform ip |

debug platform ip unicast

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

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

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

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

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | This command was introduced. |

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

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

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

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 available only if your switch is running the IP services image, formerly known as the enhanced multilayer image (EMI).

| Syntax Description | acl | Display WCCP access control lists (ACLs). |
|--------------------|--|---|
| | event | Display WCCP event debug messages. |
| | odm | Display WCCP OD merge VMRs. |
| | trace | Trace WCCP execution. |
| Defaults | Debugging is d | lisabled. |
| Command Modes | Privileged EXE | 3C |
| Command History | Release | Modification |
| | 12.2(37)SE | This command was introduced. |
| Usage Guidelines | The undebug j | platform ip wccp command is the same as the no debug platform ip wccp command. |
| - | XX 71 1 | ble debugging, it is enabled only on the stack master. To enable debugging on a stack |
| - | member, you c EXEC commar also can use the | an start a session from the stack master by using the session <i>switch-number</i> privileged nd. Then enter the debug command at the command-line prompt of the stack member. You |
| Related Commands | member, you c EXEC commar also can use the | an start a session from the stack master by using the session <i>switch-number</i> privileged nd. Then enter the debug command at the command-line prompt of the stack member. You e remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack |

debug platform ipc

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

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

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

| Syntax Description | all | Display all platform IPC debug messages. |
|-------------------------------------|--|--|
| | | Note Using this command can degrade the performance of the switch. |
| | init | Display debug messages related to IPC initialization. |
| | receive | Display IPC traces each time an IPC packet is received by the switch. |
| | send | Display IPC traces each time an IPC packet is sent by the switch. |
| | trace | Display IPC trace debug messages, tracing the code path as the IPC functions are executed. |
| Defaults | Debugging is | s disabled. |
| Command Modes | Privileged E | XEC |
| Command History | | |
| Command History | Release | Modification |
| Command History | Release 12.1(11)AX | |
| Command History Usage Guidelines | 12.1(11)AX | |
| | The undebu When you er member, you EXEC comm also can use | This command was introduced. |
| | The undebu When you er member, you EXEC comm also can use | This command was introduced. g platform ipc command is the same as the no debug platform ipc . hable debugging, it is enabled only on the stack master. To enable debugging on a stack a can start a session from the stack master by using the session <i>switch-number</i> privileged hand. Then enter the debug command at the command-line prompt of the stack member. You the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack |

debug platform 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 Di | splay LED generic action debug messages. |
|--------------------|--|---|
| | signal Di | splay LED signal bit map debug messages. |
| | stack Di | splay LED stack action debug messages. |
| Defeute | | |
| Defaults | Debugging is disa | ibled. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | The undebug pla | tform led command is the same as the no debug platform led command. |
| | When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. | |
| Related Commands | Command | Description |
| | show debugging | Displays information about the types of debugging that are enabled. |
| | | |

debug platform matm

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

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

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

| Syntax Description | | |
|--------------------|--------------------|--|
| | aging | Display MAC address aging debug messages. |
| | all | Display all platform MAC address management event debug messages. |
| | ec-aging | Display EtherChannel address aging-related debug messages. |
| | errors | Display MAC address management error messages. |
| | learning | Display MAC address management address-learning debug messages. |
| | rpc | Display MAC address management remote procedure call (RPC) related debug messages. |
| | secure-address | Display MAC address management secure address learning debug messages. |
| | warning | Display MAC address management warning messages. |
| Defaults | Debugging is disal | |
| Command Modes | Release | Modification |
| | | Modification This command was introduced. |

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

debug platform messaging application

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

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

| Syntax Description | all | Display all application-messaging debug messages. |
|-------------------------------------|---|---|
| | badpak | Display bad-packet debug messages. |
| | cleanup | Display clean-up debug messages. |
| | events | Display event debug messages. |
| | memerr | Display memory-error debug messages. |
| | messages | Display application-messaging debug messages. |
| | stackchg | Display stack-change debug messages. |
| | usererr | Display user-error debug messages. |
| Defaults | Debugging is disabled | d. |
| Command Modes | Privileged EXEC | |
| | | |
| Command History | Release | Modification |
| Command History | Release 12.1(11)AX | Modification This command was introduced. |
| | 12.1(11)AX | This command was introduced. m messaging application command is the same as the no debug platform |
| Command History Usage Guidelines | 12.1(11)AX The undebug platfor messaging applicatio When you enable deb member, you can star EXEC command. The also can use the remo | This command was introduced. m messaging application command is the same as the no debug platform |
| | 12.1(11)AX The undebug platfor messaging applicatio When you enable deb member, you can star EXEC command. The also can use the remo | This command was introduced. m messaging application command is the same as the no debug platform on command. ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack |

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

debug platform phy

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

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

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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

| Command History | Release | Modification |
|-----------------|-------------|--|
| | 12.1(11)AX | This command was introduced. |
| | 12.1(14)EA1 | The automdix keyword was added. |

Catalyst 3750 Switch Command Reference

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

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

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

debug platform pm

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

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

| tax 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. |
| | sourpur-vectors | Display IDD output vector event debug messages. |

| | sync | Display operational synchronization and VLAN line-state event debug |
|------------------|---|---|
| | | messages. |
| | vlans | Display VLAN creation and deletion event debug messages. |
| Defaults | Debugging is disabled | 1. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Heene Cuideling | | |
| Usage Guidelines | When you enable deb member, you can start EXEC command. The | m pm command is the same as the no debug platform pm command. ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You the command stack member number LINE privileged EXEC command on the stack |
| Related Commands | When you enable deb member, you can start EXEC command. The also can use the remo t | ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged |

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debug platform port-asic

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

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

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

| Syntax Description | interrupt | Display port-ASIC interrupt-related function debug messages. |
|--------------------------------------|--|--|
| | periodic | Display port-ASIC periodic-function-call debug messages. |
| | read | Display port-ASIC read debug messages. |
| | stack | Display stacking-related function debug messages. |
| | write | Display port-ASIC write debug messages. |
| Defaults | Debugging is disabled | d. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| | | |
| Usage Guidelines | When you enable deb member, you can star | bugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged |
| Usage Guidelines | When you enable deb member, you can star EXEC command. The also can use the remo | ugging, it is enabled only on the stack master. To enable debugging on a stack |
| Usage Guidelines Related Commands | When you enable deb member, you can star EXEC command. The also can use the remo | t a session from the stack master by using the session <i>switch-number</i> privileged in enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack |

debug platform port-security

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

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

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

| Syntax Description add Display secure address addition debug messages. aging Display secure address aging debug messages. all Display all port-security debug messages. delete Display secure address deletion debug messages. errors Display port-security error debug messages. rpc Display remote procedure call (RPC) debug messages. warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description Show debugging Displays information about the types of debugging that are enabled. | | | |
|---|--------------------|---|--|
| all Display all port-security debug messages. delete Display secure address deletion debug messages. errors Display port-security error debug messages. rpc Display remote procedure call (RPC) debug messages. warnings Display warning debug messages. Debugging is disabled. Debugging is disabled. Command Modes Privileged EXEC Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. | Syntax Description | add | Display secure address addition debug messages. |
| delete Display secure address deletion debug messages. errors Display port-security error debug messages. rpc Display remote procedure call (RPC) debug messages. warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | aging | Display secure address aging debug messages. |
| errors Display port-security error debug messages. rpc Display remote procedure call (RPC) debug messages. warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | all | Display all port-security debug messages. |
| rpc Display remote procedure call (RPC) debug messages. warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | delete | Display secure address deletion debug messages. |
| warnings Display warning debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | errors | Display port-security error debug messages. |
| Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | rpc | Display remote procedure call (RPC) debug messages. |
| Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | warnings | Display warning debug messages. |
| Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | Defaults | Debugging is disabled | d. |
| 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform port-security command is the same as the no debug platform port-security command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | Command Modes | Privileged EXEC | |
| Usage GuidelinesThe undebug platform port-security command is the same as the no debug platform port-security command.When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.Related CommandsCommandDescription | Command History | Release | Modification |
| command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | 12.1(11)AX | This command was introduced. |
| member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.Related CommandsCommandDescription | Usage Guidelines | • • | m port-security command is the same as the no debug platform port-security |
| | | member, you can star EXEC command. The also can use the remo | t a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack |
| | Related Commands | Command | Description |
| | | | |

debug platform qos-acl-tcam

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

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

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

| Syntax Description | all | Display all QoS and ACL TCAM (QATM) manager debug messages. |
|---|---|---|
| | ctcam | Display Cisco TCAM (CTCAM) related-events debug messages. |
| | errors | Display QATM error-related-events debug messages. |
| | labels | Display QATM label-related-events debug messages. |
| | mask | Display QATM mask-related-events debug messages. |
| | rpc | Display QATM remote procedure call (RPC) related-events debug messages. |
| | tcam | Display QATM TCAM-related events debug messages. |
| Defaults | Debugging is disab | led. |
| Command Modes | Privileged EXEC | |
| | | |
| Command History | Release | Modification |
| Command History | Release 12.1(11)AX | Modification This command was introduced. |
| | 12.1(11)AX | |
| | 12.1(11)AXThe undebug platf command.When you enable d member, you can st EXEC command. T | This command was introduced. Form qos-acl-tcam command is the same as the no debug platform qos-acl-tcam lebugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged then enter the debug command at the command-line prompt of the stack member. You |
| Command History Usage Guidelines Related Commands | 12.1(11)AXThe undebug platf command.When you enable d member, you can st EXEC command. T also can use the ren | This command was introduced. Form qos-acl-tcam command is the same as the no debug platform qos-acl-tcam lebugging, it is enabled only on the stack master. To enable debugging on a stack tart a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack |

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

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

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | This command was introduced. |

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

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

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

debug platform resource-manager

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

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

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

| dmDisplay destination-map debug messages.erdDisplay equal-cost-route descriptor-table debug messages.errorsDisplay error debug messages.madmedDisplay the MAC address descriptor table and multi-expansion descriptor table debug messages.sdDisplay the station descriptor table debug messages.statsDisplay statistics debug messages.vldDisplay the VLAN-list descriptor debug messages. | | | | |
|---|-------------------------|---|---|--|
| erd Display equal-cost-route descriptor-table debug messages. errors Display the MAC address descriptor table and multi-expansion descriptor table debug messages. sd Display the station descriptor table debug messages. stats Display the VLAN-list descriptor debug messages. vld Display the VLAN-list descriptor debug messages. vld Display the VLAN-list descriptor debug messages. vld Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command-tile 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 | Syntax Description | all | Display all resource manager 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. vld Display the VLAN-list descriptor debug messages. vld Display the VLAN-list descriptor debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | dm | Display destination-map 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. vld Display the VLAN-list descriptor debug messages. Debugging is disabled. Debugging is disabled. Command Modes Privileged EXEC Usage Guidelines Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | erd | Display equal-cost-route descriptor-table debug messages. | |
| debug messages. sd Display the station descriptor table debug messages. stats Display statistics debug messages. vld Display the VLAN-list descriptor debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Image: Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | errors | Display error debug messages. | |
| sd Display the station descriptor table debug messages. stats Display statistics debug messages. vld Display the VLAN-list descriptor debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | madmed | Display the MAC address descriptor table and multi-expansion descriptor table | |
| stats Display statistics debug messages. vid Display the VLAN-list descriptor debug messages. Debugging is disabled. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Description | | | debug messages. | |
| vid Display the VLAN-list descriptor debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | sd | Display the station descriptor table debug messages. | |
| Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | stats | Display statistics debug messages. | |
| Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | vld | Display the VLAN-list descriptor debug messages. | |
| Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | | | |
| Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | | | |
| Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | Defaults | Debugging is disa | ıbled. | |
| Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | | | |
| Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | | | |
| 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | Command Modes | Privileged EXEC | | |
| 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | | | |
| 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | Command History | Deleges | Madification | |
| Usage GuidelinesThe undebug platform resource-manager command is the same as the no debug platform resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.Related CommandsCommandDescription | Command History | | | |
| resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | 12.1(11)AX | This command was introduced. | |
| resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | | | |
| resource-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | | | |
| 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 | | | |
| 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 | | member, you can start a session from the stack master by using the session switch-number privileged | | |
| 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 | | | | |
| Related Commands Command Description | | | | |
| • • • | | master switch to e | enable debugging on a member switch without first starting a session. | |
| • | | | | |
| | Belated Commands | Command | Description | |

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 |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | This command was introduced. |

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

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

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

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 | o arguments or keywords. |
|--------------------|---------------------|--------------------------|
|--------------------|---------------------|--------------------------|

Defaults Debugging is disabled.

Command Modes Privileged EXEC

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | This command was introduced. |

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

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

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

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}

| rpc Display stack manager remote procedure call (RPC) usage debug messages. sdp Display the Stack Discovery Protocol (SDP) debug messages. sim Display the stack information module debug messages. ssm Display the stack state-machine debug messages. trace Trace the stack manager entry and exit debug messages. trace Trace the stack manager entry and exit debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform stack-manager command is the same as the no debug platform stack-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-IME privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description show debugging Displays information about the types of debugging that are enabled. | Syntax Description | all | Display all stack manager debug messages. |
|--|--------------------|--|---|
| sdp Display the Stack Discovery Protocol (SDP) debug messages. sim Display the stack information module debug messages. ssm Display the stack state-machine debug messages. trace Trace the stack manager entry and exit debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform stack-manager command is the same as the no debug platform stack-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | , , | rpc | |
| ssm Display the stack state-machine debug messages. trace Trace the stack manager entry and exit debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform stack-manager command is the same as the no debug platform stack-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Description | | | Display the Stack Discovery Protocol (SDP) debug messages. |
| trace Trace the stack manager entry and exit debug messages. Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform stack-manager command is the same as the no debug platform stack-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | sim | Display the stack information module debug messages. |
| Defaults Debugging is disabled. Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform stack-manager command is the same as the no debug platform stack-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | ssm | Display the stack state-machine debug messages. |
| Command Modes Privileged EXEC Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform stack-manager command is the same as the no debug platform stack-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | trace | Trace the stack manager entry and exit debug messages. |
| Command History Release Modification 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform stack-manager command is the same as the no debug platform stack-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | Defaults | Debugging is disa | bled. |
| 12.1(11)AX This command was introduced. Usage Guidelines The undebug platform stack-manager command is the same as the no debug platform stack-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | Command Modes | Privileged EXEC | |
| Usage GuidelinesThe undebug platform stack-manager command is the same as the no debug platform stack-manager command.When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.Related CommandsCommandDescription | Command History | Release | Modification |
| stack-manager command. When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. Related Commands Command Description | | 12.1(11)AX | This command was introduced. |
| member, you can start a session from the stack master by using the session switch-number privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command stack-member-number LINE privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session.Related CommandsCommandDescription | Usage Guidelines | | · · · |
| | | member, you can EXEC command. also can use the re | start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You emote command <i>stack-member-number LINE</i> privileged EXEC command on the stack |
| show debugging Displays information about the types of debugging that are enabled. | Related Commands | Command | Description |
| | | show debugging | Displays information about the types of debugging that are enabled. |

debug platform supervisor-asic

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

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

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

| Syntax Description | all | Display all supervisor-ASIC event debug messages. | |
|--------------------|--|---|--|
| | errors | Display the supervisor-ASIC error debug messages. | |
| | receive | Display the supervisor-ASIC receive debug messages. | |
| | send | Display the supervisor-ASIC send debug messages. | |
| Defaults | Debugging is disabled | L | |
| Command Modes | Privileged EXEC | | |
| Command History | Release | Modification | |
| | 12.1(11)AX | This command was introduced. | |
| Usage Guidelines | The undebug platform supervisor-asic command is the same as the no debug platform supervisor-asic command. | | |
| | member, you can start EXEC command. The also can use the remot | ugging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You the command <i>stack-member-number LINE</i> privileged EXEC command on the stack le debugging on a member switch without first starting a session. | |
| | | | |
| Related Commands | Command | Description | |

debug platform 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 control | Display broadcast-data debug messages. | |
|--------------------|--|--|--|
| | aantral | 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 disables | 1 | |
| Delauits | Debugging is disabled | 1. | |
| Command Modes | Privileged EXEC | | |
| Command History | Release | Modification | |
| | 12.1(11)AX | This command was introduced. | |
| Usage Guidelines | The undebug platform sw-bridge command is the same as the no debug platform sw-bridge command. | | |
| | member, you can start EXEC command. The also can use the remo t | ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack le debugging on a member switch without first starting a session. | |
| | master switch to enab | te debugging on a member switch without mist starting a session. | |
| Related Commands | master switch to enab | Description | |

debug platform tcam

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

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

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

| | l3 {acl {input output} ipv6 {acl {input output} | Display Layer 3 field-based CAM look-up type debug messages. The keywords have these meanings: |
|------------------|--|--|
| | local qos secondary} 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 TCAM-read debug messages. The keywords have these meanings: |
| | | • reg —Display TCAM-register read debug messages. |
| | | • ssram —Display synchronous static RAM (SSRAM)-read debug messages. |
| | | • tcam—Display TCAM-read debug messages. |
| | search | Display supervisor-initiated TCAM-search results debug messages. |
| | write {forw-ram reg tcam} | Display TCAM-write debug messages. The keywords have these meanings: |
| | | forw-ram—Display forwarding-RAM write debug messages. |
| | | reg—Display TCAM-register write debug messages. |
| | | tcam—Display TCAM-write debug messages. |
| Defaults | Debugging is disabled. | |
| Command Modes | Privileged EXEC | |
| Command History | Release Mo | dification |
| | 12.1(11)AX Th | is command was introduced. |
| | | |
| Usage Guidelines | The undebug platform tcam | command is the same as the no debug platform tcam command. |
| | member, you can start a sessi EXEC command. Then enter t also can use the remote comm | it is enabled only on the stack master. To enable debugging on a stack on from the stack master by using the session <i>switch-number</i> privileged the debug command at the command-line prompt of the stack member. You nand <i>stack-member-number LINE</i> privileged EXEC command on the stack gging on a member switch without first starting a session. |

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

debug platform udld

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

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

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

| Syntax Description | | |
|-------------------------------------|---|--|
| Cyntax Description | all | (Optional) Display all UDLD debug messages. |
| | error | (Optional) Display error condition debug messages. |
| | rpc {events messages} | (Optional) Display UDLD remote procedure call (RPC) debug messages. The keywords have these meanings: |
| | | • events—Display UDLD RPC events. |
| | | • messages—Display UDLD RPC messages. |
| Defaults | Debugging is disabled. | |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| Command History | nelease | Woullication |
| cominand history | | This command was introduced. |
| | 12.1(11)AX | |
| Command History Usage Guidelines | 12.1(11)AX The undebug platform u When you enable debuggi member, you can start a se EXEC command. Then ent also can use the remote co | This command was introduced. dld command is the same as the no debug platform udld command. ing, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You |
| | 12.1(11)AX The undebug platform u When you enable debuggi member, you can start a se EXEC command. Then ent also can use the remote co master switch to enable de | This command was introduced. dld command is the same as the no debug platform udld command. ang, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack |

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debug platform vlan

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

debug platform vlan {errors | mvid | rpc}

no debug platform vlan {errors | mvid | rpc}

| Syntax Description | errors | Display VLAN error debug messages. |
|--------------------|---|--|
| | mvid | Display mapped VLAN ID allocations and free debug messages. |
| | rpc | Display remote procedure call (RPC) debug messages. |
| Defaults | Debugging is disabled | 1. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | The undebug platfor | m vlan command is the same as the no debug platform vlan command. |
| | member, you can star EXEC command. The also can use the remo | ugging, it is enabled only on the stack master. To enable debugging on a stack t a session from the stack master by using the session <i>switch-number</i> privileged n enter the debug command at the command-line prompt of the stack member. You te command <i>stack-member-number LINE</i> privileged EXEC command on the stack le debugging on a member switch without first starting a session. |
| | | |
| Related Commands | Command | Description |

debug pm

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

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

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

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



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

Defaults

Debugging is disabled.

Command Modes Privileged EXEC

Comn

| nmand History | Release | Modification | |
|---------------|-------------|---------------------------------------|--|
| | 12.1(11)AX | This command was introduced. | |
| | 12.1(14)EA1 | The hatable keyword was added. | |

Usage Guidelines

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

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

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

debug port-security

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

debug port-security

no debug port-security

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

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

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | This command was introduced. |

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

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

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

debug qos-manager

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

debug qos-manager {all | event | verbose}

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

| Syntax Description | 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 disable | ed. | |
| Command Modes | Privileged EXEC | | |
| Command History | Release | Modification | |
| | 12.1(11)AX | This command was introduced. | |
| Usage Guidelines | The undebug qos-manager command is the same as the no debug qos-manager command. | | |
| | member, you can sta EXEC command. Th also can use the rem o | bugging, it is enabled only on the stack master. To enable debugging on a stack rt a session from the stack master by using the session <i>switch-number</i> privileged en enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack ble debugging on a member switch without first starting a session. | |
| Related Commands | Command | Description | |
| | show debugging | Displays information about the types of debugging that are enabled. | |

debug spanning-tree

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

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

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

Defaults Debugging is disabled.

Command Modes Privileged EXEC

| Command History | Release | Modification |
|-------------------------|---|---|
| | 12.1(11)AX | This command was introduced. |
| | 12.1(14)EA1 | The mstp and csuf/csrt keywords were added. |
| Usage Guidelines | The undebug spannin g | g-tree command is the same as the no debug spanning-tree command. |
| | member, you can start a EXEC command. Then also can use the remote | gging, it is enabled only on the stack master. To enable debugging on a stack a session from the stack master by using the session <i>switch-number</i> privileged enter the debug command at the command-line prompt of the stack member. You command <i>stack-member-number LINE</i> privileged EXEC command on the stack e debugging on a member switch without first starting a session. |
| Related Commands | Command | Description |
| | show debugging | Displays information about the types of debugging that are enabled. |
| | show spanning-tree | Displays spanning-tree state information. |

debug spanning-tree backbonefast

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

debug spanning-tree backbonefast [detail | exceptions]

no debug spanning-tree backbonefast [detail | exceptions]

| Syntax Description | detail () | Optional) Display detailed BackboneFast debug messages. |
|--------------------|--|--|
| | exceptions (| Optional) Display spanning-tree BackboneFast-exception debug messages. |
| Defaults | Debugging is disabl | ed. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | The undebug span backbonefast comm | ning-tree backbonefast command is the same as the no debug spanning-tree nand. |
| | When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the session <i>switch-number</i> privileged EXEC command. Then enter the debug command at the command-line prompt of the stack member. You also can use the remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack master switch to enable debugging on a member switch without first starting a session. | |
| Related Commands | Command | Description |
| | show debugging | Displays information about the types of debugging that are enabled. |
| | show spanning-tre | e Displays spanning-tree state information. |

debug spanning-tree bpdu

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

debug spanning-tree bpdu [receive | transmit]

no debug spanning-tree bpdu [receive | transmit]

| | • | |
|--------------------|--|---|
| Syntax Description | | Optional) Display the nonoptimized path for received BPDU debug messages. |
| | transmit (| Optional) Display the nonoptimized path for sent BPDU debug messages. |
| Defaults | Debugging is disabl | ed. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | The undebug span command. | ning-tree bpdu command is the same as the no debug spanning-tree bpdu |
| | member, you can sta EXEC command. Th also can use the rem | ebugging, it is enabled only on the stack master. To enable debugging on a stack art a session from the stack master by using the session <i>switch-number</i> privileged nen enter the debug command at the command-line prompt of the stack member. You ote command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session. |
| Related Commands | Command | Description |
| | show debugging | Displays information about the types of debugging that are enabled. |
| | show spanning-tre | e Displays spanning-tree state information. |

debug spanning-tree bpdu-opt

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

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

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

| Syntax Description | detail (| Optional) Display detailed optimized BPDU-handling debug messages. |
|--------------------|--|---|
| | packet (| Optional) Display packet-level optimized BPDU-handling debug messages. |
| Defaults | Debugging is disab | led. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| | | |
| Usage Guidelines | The undebug span t command. | ning-tree bpdu-opt command is the same as the no debug spanning-tree bpdu-opt |
| | member, you can st EXEC command. T also can use the ren | ebugging, it is enabled only on the stack master. To enable debugging on a stack aart a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session. |
| Related Commands | Command | Description |
| | show debugging | Displays information about the types of debugging that are enabled. |
| | show spanning-tro | 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 |
| | 12.1(14)EA1 | This command was introduced. |

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

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

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

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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. |

Command Modes Privileged EXEC

C

| Command History | Release | Modification |
|-----------------|-------------|---|
| | 12.1(11)AX | This command was introduced. |
| | 12.1(14)EA1 | The flush and uplinkfast keywords were added. |

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

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

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

debug spanning-tree 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 | (Optional) Display spanning-tree UplinkFast-exception debug messages. |
|--------------------|--|---|
| Defaults | Debugging is disal | bled. |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | The undebug spa r uplinkfast comma | nning-tree uplinkfast command is the same as the no debug spanning-tree and. |
| | When you enable of member, you can s EXEC command. T also can use the re r | and. debugging, it is enabled only on the stack master. To enable debugging on a stack start a session from the stack master by using the session <i>switch-number</i> privileged Then enter the debug command at the command-line prompt of the stack member. You mote command <i>stack-member-number LINE</i> privileged EXEC command on the stack nable debugging on a member switch without first starting a session. |
| | | |
| Related Commands | Command show debugging | Description Displays information about the types of debugging that are enabled. |
| | show spanning-tr | |

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 |
| | 12.1(11)AX | This command was introduced. |
| | | |
| Usage Guidelines | The undebug sw-vlan co | ommand is the same as the no debug sw-vlan command. |
| | member, you can start a EXEC command. Then e also can use the remote c | ging, it is enabled only on the stack master. To enable debugging on a stack session from the stack master by using the session <i>switch-number</i> privileged nter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack debugging on a member switch without first starting a session. |

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

debug sw-vlan ifs

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

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

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

| Syntax Description | open {read write} | Display VLAN manager IFS file-open operation debug messages. The keywords have these meanings: |
|--------------------|------------------------|--|
| | | • read—Display VLAN manager IFS file-read operation debug messages. |
| | | • write—Display VLAN manager IFS file-write operation debug messages. |
| | read {1 2 3 4} | Display file-read operation debug messages for the specified error test $(1, 2, 3, $ or 4). |
| | write | Display file-write operation debug messages. |
| Defaults | Debugging is disabled. | |
| | | |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |

| Command History | Release | Modification |
|-----------------|------------|------------------------------|
| | 12.1(11)AX | This command was introduced. |

Usage Guidelines

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

When you enable debugging, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the **session** *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.

When selecting the file read operation, Operation 1 reads the file header, which contains the header verification word and the file version number. Operation 2 reads the main body of the file, which contains most of the domain and VLAN information. Operation 3 reads type length version (TLV) descriptor structures. 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. | |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | The undebug sw-vlan n e command. | otification command is the same as the no debug sw-vlan notification |
| | member, you can start a s EXEC command. Then er also can use the remote c | ging, it is enabled only on the stack master. To enable debugging on a stack session from the stack master by using the session <i>switch-number</i> privileged neter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack lebugging on a member switch without first starting a session. |

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

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 |
| · · · · · · · · | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | | p command is the same as the no debug sw-vlan vtp command. |
| | member, you can start a s EXEC command. Then en also can use the remote co | ing, it is enabled only on the stack master. To enable debugging on a stack ession from the stack master by using the session <i>switch-number</i> privileged ter the debug command at the command-line prompt of the stack member. You ommand <i>stack-member-number LINE</i> privileged EXEC command on the stack ebugging on a member switch without first starting a session. |

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

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

debug udld

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

debug udld {events | packets | registries}

no debug udld {events | packets | registries}

| Syntax Description | events | Display debug messages for UDLD process events as they occur. |
|--------------------|--|---|
| | packets | Display debug messages for the UDLD process as it receives packets from the packet queue and tries to send them at the request of the UDLD protocol code. |
| | registries | Display debug messages for the UDLD process as it processes registry calls from the UDLD process-dependent module and other feature modules. |
| Defaults | Debugging is c | lisabled. |
| Command Modes | Privileged EXI | EC |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| | | |
| Usage Guidelines | The undebug | udld command is the same as the no debug udld command. |
| | member, you c EXEC comman also can use the | ble debugging, it is enabled only on the stack master. To enable debugging on a stack can start a session from the stack master by using the session <i>switch-number</i> privileged nd. Then enter the debug command at the command-line prompt of the stack member. You e remote command <i>stack-member-number LINE</i> privileged EXEC command on the stack to enable debugging on a member switch without first starting a session. |
| | For debug udl | d events, these debugging messages appear: |
| | • General U | DLD program logic flow |
| | • State mach | hine state changes |
| | Program a | ctions for the set and clear ErrDisable state |
| | • Neighbor | cache additions and deletions |
| | • Processing | g of configuration commands |
| | Processing | g 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 | led. |
| | | |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| | 12.1(11)AX | This command was introduced. |
| Usage Guidelines | When you enable de | command is the same as the no debug vqpc command. ebugging, it is enabled only on the stack master. To enable debugging on a stack |
| | EXEC command. The also can use the rem | art a session from the stack master by using the session <i>switch-number</i> privileged hen enter the debug command at the command-line prompt of the stack member. You note command <i>stack-member-number LINE</i> privileged EXEC command on the stack able debugging on a member switch without first starting a session. |
| Related Commands | Command | Description |
| | show debugging | Displays information about the types of debugging that are enabled. |
| | | |

debug platform wireless-controller

Use the **debug platform wireless-controller** privileged EXEC command to enable debugging of the internal wireless LAN controller on a Catalyst 3750G Integrated Wireless LAN Controller Switch. Use the **no** form of this command to disable debugging.

debug platform wireless-controller {all | packets | session | sm | wcp}

no debug platform wireless-controller {all | packets | session | sm | wcp}

| Syntax Decorintion | all | Display all wireless controller debug messages. |
|--------------------|---|---|
| Syntax Description | packets | Display Wireless LAN Control Protocol (WCP) packet debug messages. |
| | session | Display wireless controller session debug messages. |
| | sm | Display wireless controller state machine debug messages. |
| | wcp | Display all WCP debug messages. |
| | | |
| Defaults | Debugging is disabled. | |
| Command Modes | Privileged EXEC | |
| Command History | Release | Modification |
| Commanu history | norouso | mounoution |
| Commanu History | 12.2(25)FZ | This command was introduced. |
| | 12.2(25)FZ | This command was introduced. n wireless-controller command is the same as the no debug platform |
| | 12.2(25)FZ The undebug platform wireless-controller controller cont | This command was introduced. n wireless-controller command is the same as the no debug platform |
| Usage Guidelines | 12.2(25)FZThe undebug platform wireless-controller coThis command appliesWhen you enable debuy member, you can startEXEC command. Then also can use the remote | This command was introduced. n wireless-controller command is the same as the no debug platform ommand. |
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