Show Commands

This chapter describes the Cisco NX-OS FabricPath **show** commands.

show fabricpath conflict

To display information about the conflicts in the FabricPath network, use the **show fabricpath conflict** command.

show fabricpath conflict {**all** [**detail**] | **link** [**detail**] | **switch-id** [**detail**] | **transitions** [**detail**]}

Syntax Description

all	Displays all the conflicts.
detail	(Optional) Displays the details.
link	Displays all the links.
switch-id	Displays the switch IDs.
transitions	Displays the transitions.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display detailed information about the conflicts in the FabricPath network:

```
switch# show fabricpath conflict all detail
No Ports under Fabricpath control
No Switch id Conflicts
No transitions in progress
switch#
```

Related Commands

Command	Description
show running-config fabricpath	Displays current FabricPath configuration.

show fabricpath ftag

To display information about the FabricPath FTAG, use the **show fabricpath ftag** command.

show fabricpath ftag

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the information about the FabricPath FTAG:

```
switch# show fabricpath ftag
No ftag values present
switch#
```

Related Commands

Command	Description
show running-config fabricpath	Displays the current FabricPath configuration.

show fabricpath isis

To display the FabricPath Intermediate System-to-Intermediate System (IS-IS) adjacency database, use the **show fabricpath isis** command.

show fabricpath isis

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display detailed information about the IS-IS adjacency:

```
switch# show fabricpath isis

Fabricpath IS-IS domain : default
  System ID : 0005.73a3.ba3c  IS-Type : L1
  SAP : 432  Queue Handle : 11
  Maximum LSP MTU: 1492
  Graceful Restart enabled. State: Inactive
  Last graceful restart status : none
  Metric-style : advertise(wide), accept(wide)
  Start-Mode: Complete [Start-type configuration]
  Area address(es) :
    00
  Process is up and running
  CIB ID: 4
  Interfaces supported by Fabricpath IS-IS :
  Level 1
  Authentication type and keychain not configured
  Authentication check specified
  MT-0 Ref-Bw: 400000
  Address family Swid unicast :
    Number of interface : 0
    Distance : 115
  L1 Next SPF: Inactive
switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.
show running-config fabricpath	Displays the FabricPath running system configuration information.

show fabricpath isis adjacency

To display the FabricPath Intermediate System-to-Intermediate System (IS-IS) adjacency database, use the **show fabricpath isis adjacency** command.

show fabricpath isis adjacency [**interface** {**ethernet** *module/slot* | **port-channel** *channel-number*} | **detail** | **summary** | **system-id** *sid*]

Syntax Description

interface	(Optional) Displays the interface status.
ethernet	Displays the Ethernet interface.
module/slot	Module and slot number. The module number is from 1 to 255 and the port number is from 1 to 128.
port-channel	Displays the port-channel interface.
channel-number	Port-channel number. The range is from 1 to 4096.
detail	(Optional) Displays the IS-IS adjacency detailed information.
summary	(Optional) Displays the IS-IS adjacency summary information.
system-id	(Optional) Displays the system ID.
sid	Hostname or system ID in the format XXXX.XXXX.XXXX.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display detailed information about the IS-IS adjacency:

```
switch# show fabricpath isis adjacency detail
switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis database

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) link-state packet (LSP) database, use the **show fabricpath isis database** command.

show fabricpath isis database [**l1**] [**level-1**] [**mgroup**] [**detail** | **summary**] [*sid*] {[**zero-sequence**] | [**router-id**] | [**adjacency**]}

Syntax Description

l1	(Optional) Displays the IS-IS Level-1 routing link state database.
level-1	(Optional) Displays the IS-IS Level-1 routing link state database.
mgroup	(Optional) Displays the IS-IS GM database information.
detail	(Optional) Displays the detailed IS-IS information.
summary	(Optional) Displays the summary IS-IS information.
sid	(Optional) LSP ID in the format XXXX.XXXX.XXXX.XX-XX.
zero-sequence	(Optional) Displays the LSP with a zero sequence number.
router-id	(Optional) Displays the router ID filter.
adjacency	(Optional) Displays the adjacency filter.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display information about the FabricPath IS-IS LSP database:

```
switch# show fabricpath isis database
Fabricpath IS-IS domain: default LSP database
  LSPID                 Seq Number   Checksum  Lifetime   A/P/O/T
  O2-48_Mgmt-2.00-00  * 0x00000008   0x2F9D    1073       0/0/0/1
switch#
```

This example shows how to display the IS-IS Level-1 routing link state database:

```
switch# show fabricpath isis database level-1
Fabricpath IS-IS domain: default LSP database
  LSPID                 Seq Number   Checksum  Lifetime   A/P/O/T
  O2-48_Mgmt-2.00-00  * 0x00000008   0x2F9D    1041       0/0/0/1

switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis ftag

To display Intermediate System-to-Intermediate System (IS-IS) FTAG values associated with the trees in the topology, use the **show fabricpath isis ftag** command.

show fabricpath isis ftag [**multidestination** *tree-id*]

Syntax Description

multidestination	(Optional) Displays the multidestination information.
tree-id	Tree identifier. The range is from 1 to 2.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display IS-IS FTAG multidestination information:

```
switch# show fabricpath isis ftag multidestination 1
Fabricpath IS-IS domain: default
Fabricpath IS-IS Ftag Database
  Legend: C - Confirmed, T - tentative

MT-0
                          PrimaryTree
    Multidestination-2     0 [C]
switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis hostname

To display FabricPath Intermediate System-to-Intermediate System (IS-IS) hostname table information, use the **show fabricpath isis hostname** command.

show fabricpath isis hostname [**detail**]

Syntax Description

detail	(Optional) Displays the detailed IS-IS information.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display information about the FabricPath IS-IS hostname table:

```
Switch# show fabricpath isis hostname detail
Fabricpath IS-IS domain: default dynamic hostname table
  Level  LSP ID                 Dynamic hostname
  1      0005.73a3.ba3c.00-00* O2-48_Mgmt-2

switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis interface

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) interface, use the **show fabricpath isis interface** command.

show fabricpath isis interface {**brief** | **ethernet** s*lot/*[*QSFP-module/*]*port* | **port-channel** *channel-number*}

Syntax Descriptions

brief	Displays brief information about the IS-IS interface.
ethernet	Displays the Ethernet interface.
slot/*port*	Slot/chassis number and the port number. The slot number is from 1 to 255 and the port number is from 1 to 128.
QSFP-module	(Optional) The QSFP+ port on the Generic Expansion Module (GEM). The port numbers are from 1 to 4.
port-channel	Displays the port-channel interface.
channel-number	Port-channel number. The range is from 1 to 4096.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
6.0(2)N1(2)	Support for QSFP+ GEM.
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the brief information about the FabricPath IS-IS interface:

```
switch1# show fabricpath isis interface brief
```

This example shows how to display the FabricPath IS-IS interface information for an Ethernet interface:

```
switch1# show fabricpath isis interface ethernet 1/2
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis ip mroute

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) multicast route, use the **show fabricpath isis ip mroute** command.

show fabricpath isis ip mroute [**vlan** *vlan-id* [**group** *group-id* [**source** *source-id*]]]

Syntax Description

vlan	(Optional) Displays the IS-IS VLAN information.
vlan-id	VLAN ID. The range is from 1 to 4094.
group	(Optional) Displays the group information.
group-id	Group ID information in the format *A.B.C.D*.
source	(Optional) Displays the source information.
source-id	Source ID in the format *A.B.C.D*.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display information about the IS-IS mroute:

```
switch# show fabricpath isis ip mroute
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis ip redistribute mroute

To display the FabricPath Intermediate System-to-Intermediate System (IS-IS) redistribute multicast route information, use the **show fabricpath isis ip redistribute mroute** command.

show fabricpath isis ip redistribute mroute [**vlan** *vlan-id* [**group** *group-id* [**source** *source-id*]]]

Syntax Description

vlan	(Optional) Displays the IS-IS VLAN information.
vlan-id	Displays the VLAN ID. The range is from 1 to 4094.
group	(Optional) Displays the group information.
group-id	Group ID information in the format *A.B.C.D*.
source	(Optional) Displays the source information.
source-id	Source ID in the format *A.B.C.D*.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the FabricPath IS-IS redistribute mroute information:

```
switch# show fabricpath isis ip redistribute mroute
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis protocol

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) protocol, use the **show fabricpath isis protocol** command.

show fabricpath isis protocol

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display information about the FabricPath IS-IS protocol:

```
switch1# show fabricpath isis protocol

Fabricpath IS-IS domain : default
  System ID : 0005.73a3.ba3c  IS-Type : L1
  SAP : 432  Queue Handle : 11
  Maximum LSP MTU: 1492
  Graceful Restart enabled. State: Inactive
  Last graceful restart status : none
  Metric-style : advertise(wide), accept(wide)
  Start-Mode: Complete [Start-type configuration]
  Area address(es) :
    00
  Process is up and running
  CIB ID: 4
  Interfaces supported by Fabricpath IS-IS :
  Level 1
  Authentication type and keychain not configured
  Authentication check specified
  MT-0 Ref-Bw: 400000
  Address family Swid unicast :
    Number of interface : 0
    Distance : 115
  L1 Next SPF: Inactive
switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis route

To display the FabricPath Intermediate System-to-Intermediate System (IS-IS) routing table for unicast routes, use the **show fabricpath isis route** command.

show fabricpath isis route [**summary** | **detail**]

Syntax Description

summary	(Optional) Displays a summary of the IS-IS adjacency information.
detail	(Optional) Displays the detailed IS-IS adjacency detail information.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display detailed information about the IS-IS route:

```
switch# show fabricpath isis route detail
Fabricpath IS-IS domain: default MT-0
Topology 0, Tree 0, Swid routing table

switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis rrm

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) Retransmit-Routing-Message (RRM), use the **show fabricpath isis rrm** command.

show fabricpath isis rrm [**gm**] {**ethernet** *slot/*[*QSFP-module/*]*port* | **port-channel** *channel-number*}

Syntax Description

gm	(Optional) Displays the IS-IS GM-Send-Sequence-Number information.
ethernet	Displays the IS-IS RRM information for an Ethernet interface.
slot/port	Slot or chassis number and the port number. The slot number is from 1 to 2555 and the port number is from 1 to 128.
QSFP-module	(Optional) The QSFP+ port on the Generic Expansion Module (GEM). The port numbers are from 1 to 4.
port-channel	Displays the IS-IS RRM information for a port-channel interface.
channel-number	Port-channel number. The range is from 1 to 4096.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
6.0(2)N1(2)	Support for the QSFP+ GEM.
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the FabricPath IS-IS RRM information:

```
switch# show fabricpath isis rrm gm ethernet 2/2
```

Related Commands

Command	Description
fabricpath domain default	Enables the FabricPath Layer 2 IS-IS.

show fabricpath isis spf-log

To display information about FabricPath Intermediate System-to-Intermediate System (IS-IS) shortest-path-first (SPF) calculation statistics, use the **show fabricpath isis spf-log** command.

show fabricpath isis spf-log [**detail**]

Syntax Description

detail	(Optional) Displays the detailed IS-IS SPF information.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the detailed information about the FabricPath IS-IS SPF:

```
switch1# show fabricpath isis spf-log detail
Fabricpath IS-IS domain: default SPF information
Total number of SPF calculations: 1

Log entry (current/max): 1/20
Log entry: 01, Ago: 02:32:37, Date: Tue Oct 25 03:41:00 2011
  Level  Instance    Init      SPF       IS Update  URIB Update  Total
  1      0x00000001  0.000062  0.000009  0.000009   0.000009     0.000411
  Level  Node Count   Changed  Reason
  1         1     2         0  Switch-id updated


switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis srm

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) Send-Routing-Message (SRM), use the **show fabricpath isis srm** command.

show fabricpath isis srm [**gm**] {**ethernet** *slot*/[*QSFP-module*/]*port* | **port-channel** *channel-number*}

Syntax Description

gm	(Optional) Displays the IS-IS GM-Send-Sequence-Number information.
ethernet	Displays the Ethernet interface.
slot/*port*	Slot or chassis number and the port number. The slot number is from 1 to 255 and the port number is from 1 to 128.
QSFP-module	(Optional) The QSFP+ port on the Generic Expansion Module (GEM). The port numbers are from 1 to 4.
port-channel	Displays the port-channel interface.
channel-number	Port-channel number. The range is from 1 to 4096.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
6.0(2)N1(2)	Support for the QSFP+ GEM.
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display information about the FabricPath IS-IS SRM:

```
switch# show fabricpath isis srm gm ethernet 2/2
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis ssn

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) Send-Sequence-Number (SSN), use the **show fabricpath isis ssn** command.

show fabricpath isis ssn [**gm**] {**ethernet** *slot/*[*QSFP-module/*]*port* | **port-channel** *channel-number*}

Syntax Description

gm	(Optional) Displays the IS-IS GM-Send-Sequence-Number information.
ethernet	Displays the Ethernet interface.
slot/port	Slot or chassis number and the port number. The slot number is from 1 to 255 and the port number is from 1 to 128.
QSFP-module	(Optional) The QSFP+ port on the Generic Expansion Module (GEM). The port numbers are from 1 to 4.
port-channel	Specifies the port-channel interface.
channel-number	Port-channel number. The range is from 1 to 4096.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display FabricPath IS-IS Send-Sequence-Number information:

```
switch# show fabricpath isis ssn gm port-channel 400
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis statistics

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) protocol statistics, use the **show fabricpath isis statistics** command.

show fabricpath isis statistics

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display information about the FabricPath IS-IS protocol statistics:

```
switch# show fabricpath isis statistics
Fabricpath IS-IS domain:      default
SPF calculations:   1
LSPs sourced:       2
LSPs refreshed:     18
LSPs purged:        0
Buffers U2RIB:      0
Buffers M2RIB:      0
Buffers PIXM:       0
Swid Updates:       2
Ftag Updates:       0

switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis switch-id

To display switch IDs and reachability information in the topology, use the **show fabricpath isis switch-id** command.

show fabricpath isis switch-id

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the switch ID database:

```
switch# show fabricpath isis switch-id

Fabricpath IS-IS domain: default
Fabricpath IS-IS Switch-ID Database
Legend: C - Confirmed, T - tentative, W - swap
        S - sticky, E - Emulated Switch
        '*' - this system
System-ID        Primary  Secondary  Reachable  Bcast-Priority
MT-0
0005.73a3.ba3c*  2590[C]       0[C]  Yes                64
switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis topology summary

To display information about the Intermediate System-to-Intermediate System (IS-IS) summary topology, use the **show fabricpath isis topology summary** command.

show fabricpath isis topology summary

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display information about the FabricPath IS-IS summary topology:

```
switch# show fabricpath isis topology summary
Fabricpath IS-IS domain: default FabricPath IS-IS Topology Summary
MT-0
  Configured interfaces:
  Number of trees: 2
    Tree id: 1, ftag: 0, root system: 0000.0000.0000, 0
    Tree id: 2, ftag: 0, root system: 0000.0000.0000, 0
switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis traffic

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) traffic, use the **show fabricpath isis traffic** command.

show fabricpath isis traffic {**ethernet** *slot*/[*QSFP-module*/]*port* | **port-channel** *channel-number*}

Syntax Description

ethernet	Displays the Ethernet interface.
slot/*port*	Slot or chassis number and the port number. The slot number is from 1 to 255 and the port number is from 1 to 128.
QSFP-module	(Optional) The QSFP+ port on the Generic Expansion Module (GEM). The port numbers are from 1 to 4.
port-channel	Displays the port-channel interface.
channel-number	Port-channel number. The range is from 1 to 4096.

Command Default

None

Command Modes

Global configuraion mode

Command History

Release	Modification
6.0(2)N1(2)	Support for the QSFP+ GEM.
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display information about the FabricPath IS-IS traffic:

```
switch1# show fabricpath isis traffic
Fabricpath IS-IS domain: default
Fabricpath IS-IS Traffic:
PDU        Received        Sent  RcvAuthErr OtherRcvErr  ReTransmit
P2P-IIH           0           0           0           0         n/a
CSNP              0           0           0           0         n/a
PSNP              0           0           0           0         n/a
LSP               0           0           0           0           0

switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis trees

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) trees, use the **show fabricpath isis trees** command.

show fabricpath isis trees [**multidestination** *tree-id*]

Syntax Description

multidestination	(Optional) Displays the multidestination information.
tree-id	Tree identifier. The range is from 1 to 2.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display information about the FabricPath IS-IS tree multidestination:

```
switch# show fabricpath isis trees multidestination 1
Fabricpath IS-IS domain: default
Note: The metric mentioned for multidestination tree is from the root of that tr
ee to that switch-id

MT-0
Topology 0, Tree 1, Swid routing table

switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath isis vlan-range

To display VLANs in the FabricPath Intermediate System-to-Intermediate System (IS-IS) topology, use the **show fabricpath isis vlan-range** command.

show fabricpath isis vlan-range

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display VLANs in the FabricPath IS-IS topology:

```
switch# show fabricpath isis vlan-range
Fabricpath IS-IS domain: default
MT-0
switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show fabricpath load-balance

To display FabricPath load-balancing information, use the **show fabricpath load-balance** command.

show fabricpath load-balance

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

Note The **show fabricpath load-balance** cannot be executed by any users without admin privileges.

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display FabricPath load-balancing information:

```
switch# show fabricpath load-balance
ECMP load-balancing configuration:
L3/L4 Preference: Mixed (L2, L3 and L4)
Hash Control: Symmetric
Rotate amount: 7 bytes
Use VLAN: TRUE

switch#
```

Related Commands

Command	Description
fabricpath load-balance	Displays FabricPath load-balancing parameters.

show fabricpath load-balance multicast

To display FabricPath load-balancing information for the multicast load-balancing scheme, use the **show fabricpath load-balance multicast** command.

show fabricpath load-balance multicast ftag-selected vlan *vlan-ID* **macg** *MAC-addr*

Syntax Description

ftag-selected	Displays the multicast load-balancing parameters for the FabricPath FTAG.
vlan *vlan-ID*	Displays load-balancing for FabricPath VLANs. The range is from 1 to 4094.
macg *MAC-addr*	Displays the load-balancing parameters for the multicast group MAC address. The format is EEEE.EEEE.EEEE.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display FabricPath load-balancing forwarding information for the multicast load-balancing scheme:

```
switch# show fabricpath load-balance multicast ftag-selected vlan 10 macg 0100.5E10.1010
```

Related Commands

Command	Description
fabricpath load-balance	Displays FabricPath load-balancing parameters.

show fabricpath load-balance unicast

To display FabricPath load-balancing information for the unicast load-balancing scheme, use the **show fabricpath load-balance unicast** command.

show fabricpath load-balance unicast forwarding-path ftag *ftag-ID* **switchid** *switch-ID* **src-mac** *MAC-addr* **dst-mac** *MAC-addr* [**dst-ip** *ip-addr*] [**dst-ipv6** *ipv6-addr*] [**l4-dst-port** *l4-dest-port*] [**l4-src-port** *l4-src-port*] [**src-ip** *ip-addr*] [**src-ipv6** *ipv6-addr*] [**vlan** *vlan-ID*]

Syntax Description

forwarding-path	Identifies the FabricPath that forwards the packet.
ftag *ftag-ID*	Displays the load-balancing parameters for the FabricPath FTAG. The FTAG value is from 0 to 4,294,967,295.
switchid *switch-ID*	Displays the load-balancing parameters for a specific FabricPath switch ID. The switch ID is from 0 to 4,294,967,295.
src-mac	Displays the load-balancing parameters for the source MAC address.
MAC-addr	MAC address. The format is EE:EE:EE:EE:EE:EE.
dst-mac	Displays the load-balancing parameters for the destination MAC address.
dst-ip	(Optional) Displays the load-balancing parameters for the destination IPv4 address.
ip-addr	IPv4 address. The format is A.B.C.D.
dst-ipv6	(Optional) Displays the load-balancing destination hash parameters.
ipv6-addr	IPv6 address. The format is EE:EE::EE:EE.
l4-dst-port *l4-dest-port*	(Optional) Displays the destination TCP or UDP port information used in hashing. The port number is from 0 to 65535.
l4-src-port *l4-src-port*	(Optional) Displays the source TCP or UDP port information used in hashing. The port number is from 0 to 65535.
src-ip	(Optional) Displays the load-balancing parameters for the source IPv4 address.
src-ipv6	(Optional) Displays the load-balancing source hash parameters.
vlan *vlan-ID*	(Optional) Displays the load-balancing information for FabricPath VLANs. The range is from 1 to 4094.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display FabricPath load-balancing forwarding information for the unicast load-balancing scheme:

```
switch# show fabricpath load-balance unicast forwarding-path ftag 1 switchid 200 src-mac
00:10:20:30:40:50 dst-mac 00:30:40:50:60:70 vlan 200
```

This example shows how to display FabricPath load-balance hashing information for the unicast load-balancing scheme:

```
switch# show fabricpath load-balance unicast forwarding-path ftag 1 switchid 232 src-mac
0000.1234.5678 dst-mac 0000.3452.4567 src-ipv6 12:34::56:78 dst-ipv6 01:34::56:78
l4-dst-port 100 l4-src-port 435 vlan 200
Missing params will be substituted by 0's.

crc8_hash: 229
This flow selects interface Po400
switch#
```

Related Commands

Command	Description
fabricpath load-balance	Displays FabricPath load-balancing parameters.

show fabricpath oam loopback

To display information about fabricpath Operation, Administration, and Maintenance (OAM) loopback, use the **show fabricpath OAM loopback** command in privileged EXEC mode.

show fabricpath oam loopback {**database** | **statistics** [**summary**] **status**} [**session** session-*handle*]

Syntax Description

database	Displays information about fabricpath OAM loopback database.
statistics	Displays information about fabricpath OAM loopback statistics.
summary	(Optional) Displays information about fabricpath OAM loopback statistics summary.
status	Displays information about for fabricpath OAM loopback status.
session *session-handle*	(Optional) Displays information about for fabricpath OAM loopback for a specific session.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
7.0(0)N1(1)	This command was introduced.

Usage Guidelines

When a **ping** command returns errors and the details are not available in the command output, you can use the **show fabricpath OAM loopback database** command to see the details.

A session is an auto-generated identifier for a proactive loopback request.

Examples

This example shows the display from the **show fabricpath OAM loopback statistics** command.

```
Device(#) show fabricpath OAM loopback statistics

Sender Handle: 10
Last Clear of Statistics: Never
Loopback Reply/notification return code distribution:
    V - VLAN nonexistent (0)                          - 0
    v - VLAN in suspended state (1)                   - 0
    C - Cross Connect Error (2)                       - 0
    U - Unknown RBridge nickname (3)                  - 0
    n - Not AF (4)                                    - 0
    M - MTU mismatch (5)                              - 0
    I - Interface not in forwarding state (6)         - 0
    S - Service Tag nonexistent (7)                   - 0
    s - Service Tag in suspended state (8)            - 0
    ! - success                                       - 5
   m - malformed request                              - 0
   Q - request not sent                               - 0
   . - timeout                                        - 0
   D - Destination unreachable                        - 0
   X - Unknown return code                            - 0
```

This example shows the display from the **show fabricpath OAM loopback statistics summary** command:

```
switch(#) show fabricpath OAM loopback statistics summary

Loopback Requests: sent (5)/received (0)/timeout (0)/unsent (0)
Loopback Replies: sent (0)/received (5)/unsent (0)
```

This example shows the display from the **show fabricpath OAM loopback status** command:

```
switch(#) show fabricpath OAM loopback status
Sender Handle             Type               State
1                       on demand          completed
10                     Asynchronous       running(No Error)
```

This example shows the display from the **show fabricpath OAM loopback database** command:

```
switch(#) show fabricpath OAM loopback database

Loopback Request from switch-id 10

Sender handle: 1
Last Clear of Statistics: Never
Start time: 00:00:10
End time: NA
Id: sent: 5 timeout: 0 unsent: 0 Interface: NA
Hop limit: 2 Flags: 0 switch-id: 10
Forward Flow Entropy: Default
Reverse Flow Entropy: NA
Service Tag: NA Vlan: 10 out of band: No
Reverse Path Req(ecmp/nickname): NA
Control Plane Verification Req(ecmp/nickname):NA
Reply: received (5)
Reverse Resp (ecmp cnt: 1, (ecmp id: 0xFFFF, ifindex: 32, slot:0, port:0, state:10,
state:fwd))
Forward Resp (ecmp cnt: 1, (ecmp id: 0xFFFF, ifindex: 32, slot:0, port:0, state:10,
state:fwd))
```

Related Commands

Command	Description

show fabricpath oam mtrace

To display information about fabricpath Operation, Administration, and Maintenance (OAM) loopback, use the **show fabricpath oam mtrace** command in privileged EXEC mode.

show fabricpath oam mtrace {**database** | **statistics** [**summary**]}

Syntax Description

database	Displays information about fabricpath OAM mtrace database.
statistics	Displays information about fabricpath OAM mtrace statistics.
summary	(Optional) Displays information about fabricpath OAM mtrace statistics summary.

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
7.0(0)N1(1)	This command was introduced.

Usage Guidelines

When the **mtrace** command returns errors and the details are not available in the command output, you can use the **show fabricpath OAM mtrace database** command to see the details.

Examples

This example shows the display from the **show fabricpath OAM mtrace statistics** command. :

```
switch# show fabricpath oam mtrace statistics

Mtrace Reply/notification return code distribution:
    V - VLAN nonexistent (0)                          - 0
    v - VLAN in suspended state (1)                   - 0
    C - Cross Connect Error (2)                       - 0
    U - Unknown RBridge nickname (3)                  - 0
    n - Not AF (4)                                    - 0
    M - MTU mismatch (5)                              - 0
    I - Interface not in forwarding state (6)         - 0
    S - Service Tag nonexistent (7)                   - 0
    s - Service Tag in suspended state (8)            - 0
    ! - success                                       - 5
    m - malformed request                             - 0
    Q - request not sent                              - 0
    . - timeout                                       - 0
    D - Destination unreachable                       - 0
    X - Unknown return code                           - 0
Mtrace Requests: sent (5)/received (0)/timedout (0)/unsent (0)
Mtrace Replies: sent (0)/received (25)/unsent (0)
```

This example shows the display from the **show fabricpath OAM mtrace statistics summary** command:

```
switch# show fabricpath oam mtrace statistics summary
Mtrace Requests: sent (5)/received (0)/timeout (0)/unsent (0)
Mtrace Replies: sent (0)/received (25)/unsent (0)
```

This example shows the display from the **show fabricpath OAM database summary** command:

```
switch# show fabricpath oam mtrace database summary
Mtrace request from switch-id 10
Id: sent: 5 timeout: 0 unsent: 0
Tree ID: 1 Vlan : 5 Hop limit: 2
Forward Flow Entropy: Default
Reverse Flow Entropy: NA
Service Tag: NA Vlan: 10 out of band: No
Control Plane Verification Req(ecmp/nickname):1/15
Reply: received (2)
```

This example shows the display from the **show fabricpath OAM mtrace database** command:

```
switch# show fabricpath oam mtrace database
Sender handle: 2
Mtrace request from switch-id 10
Id: sent: 1 timeout: 0 unsent: 0
Tree ID: 1 Vlan : 5 Hop limit: 2
Forward Flow Entropy: Default
Reverse Flow Entropy: NA
Service Tag: NA Vlan: 10 out of band: No
Control Plane Verification Req(ecmp/nickname):1/15
Reply: received (2)
Control Plane Resp from switch-id 112
2 next hop Rbridges
Switch-id 11 ifindex 0x00010023 Slot 3 Port 5 Speed 10M State – forwarding no error
Switch-id 789 ifindex 0x00230782 Slot 5 Port 11 Speed 1G State – forwarding no error
ecmp cnt: 1, (ecmp id: 0xFFFF, ifindex: 32, slot:0, port:0, state:10, state:fwd)
Control Plane Resp from switch-id 13
ecmp cnt: 1, (ecmp id: 0xFFFF, ifindex: 32, slot:0, port:0, state:10, state:fwd)
```

Related Commands

Command	Description

show fabricpath oam notification

To display information about fabricpath Operation, Administration, and Maintenance (OAM) notification, use the **show fabricpath OAM notification** command in privileged EXEC mode..

show fabricpath oam notification {**database** | **statistics**}

Syntax Description

database	Displays information about fabricpath OAM notification database.
statistics	Displays information about fabricpath OAM notification statistics.

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
7.0(0)N1(1)	This command was introduced.

Examples

This example shows the display from the **show fabricpath oam notification statistics** command:

```
switch# show fabricpath oam notification statistics
Last Clearing of Statistics:Never
Notfication Received : 0
Time Expiry : 0
Destination Unreachable : 0
Parameter Problem : 0
```

Related Commands

Command	Description

show fabricpath oam traceroute

To display information about FabricPath Operation, Administration, and Maintenance (OAM), use the **show fabricpath oam traceroute** command in privileged EXEC mode.

show fabricpath oam traceroute {**database** [**session** *sesion-handle*] | **statistics** [**summary**]}

Syntax Description

database	Displays information about fabricpath OAM traceroute database.
session *session-handle*	Displays information about fabricpath OAM traceroute for a specific session.
statistics	Displays information about fabricpath OAM traceroute statistics.
summary	Displays information about fabricpath OAM traceroute statistics summary.

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
7.0(0)N1(1)	This command was introduced.

Usage Guidelines

When a **traceroute** command returns errors and the details are not available in the command output, you can use the **show fabricpath OAM traceroute database** command to see the details.

A session is an auto-generated identifier for a proactive traceroute request.

Examples

This example shows the display from the **show fabricpath OAM traceroute statistics** command:

```
switch# show fabricpath oam traceroute statistics
Last Clear of Statistics: Never
Traceroute Reply/notification return code distribution
    V - VLAN nonexistent (0)                    - 0
    v - VLAN in suspended state (1)             - 0
    C - Cross Connect Error (2)                 - 0
    U - Unknown RBridge nickname (3)            - 0
    n - Not AF (4)                              - 0
    M - MTU mismatch (5)                        - 0
    I - Interface not in forwarding state (6)   - 0
    S - Service Tag nonexistent (7)             - 0
    s - Service Tag in suspended state (8)      - 0
    ! - success                                 - 5
    m - malformed request                       - 0
    Q - request not sent                        - 0
    . - timeout                                 - 0
    D - Destination unreachable                 - 0
    X - Unknown return code                     - 0
Path Trace Requests: sent (5)/received (0)/timedout (0)/unsent (0)
Path Trace Replies: sent (0)/received (5)/unsent (0)
```

This example shows the display from the **show fabricpath OAM traceroute statistics summary** command:

```
switch# show fabricpath oam traceroute statistics summary

Path Trace Requests: sent (5)/received (0)/timeout (0)/unsent (0)
Path Trace Replies: sent (0)/received (5)/unsent (0)
```

This example shows the display from the **show fabricpath OAM traceroute database** command.:

```
switch# show fabricpath oam traceroute database

Sender handle: 2
Path Trace Request from switch-id 10
Id: sent: 5 timeout: 0 unsent: 0 Interface: NA
Hop limit: 2 Flags: 0 switch-id: 10
Forward Flow Entropy: Default
Reverse Flow Entropy: NA
Service Tag: NA Vlan: 10 out of band: No
Reverse Path Req(ecmp/nickname): NA
Control Plane Verification Req(ecmp/nickname):NA
Reply: received (5)
Reverse Resp (ecmp cnt: 1, (ecmp id: 0xFFFF, ifindex: 32, slot:0, port:0, state:10,
state:fwd))
Forward Resp (ecmp cnt: 1, (ecmp id: 0xFFFF, ifindex: 32, slot:0, port:0, state:10,
state:fwd))
```

Related Commands

Command	Description

show fabricpath route

To display FabricPath route information, use the **show fabricpath route** command.

show fabricpath route [**detail** [**hex**] | **hex** | **topology** {topology_ID [**switchid** *switch-ID*] | all} [**detail** | **hex**]]

Syntax Description

detail	(Optional) Displays detailed information.
hex	(Optional) Displays the switch IDs in hexadecimal.
topology *topology_ID*	(Optional) Displays the topology information. The topology value is from 0 to 63.
switchid	(Optional) Displays the switch ID.
switch-ID	Switch ID value. The range is from 0 to 16383.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the detailed information about the FabricPath route:

```
switch# show fabricpath route detail
FabricPath Unicast Route Table
'a/b/c' denotes ftag/switch-id/subswitch-id
'[x/y]' denotes [admin distance/metric]
ftag 0 is local ftag
subswitch-id 0 is default subswitch-id


FabricPath Unicast Route Table for Topology-Default

0/2590/0, number of next-hops: 0
        via ---- , [60/0], 0 day/s 02:57:18, local
switch#
```

This example shows how to display the information about the FabricPath route:

```
switch# show fabricpath route
FabricPath Unicast Route Table
'a/b/c' denotes ftag/switch-id/subswitch-id
'[x/y]' denotes [admin distance/metric]
ftag 0 is local ftag
```

```
subswitch-id 0 is default subswitch-id


FabricPath Unicast Route Table for Topology-Default

0/2590/0, number of next-hops: 0
        via ---- , [60/0], 0 day/s 02:58:05, local
switch#
```

Related Commands

Command	Description
show running-config fabricpath	Displays the current FabricPath configuration.

show fabricpath switch-id

To display the FabricPath switch ID, use the **show fabricpath switch-id** command.

show fabricpath switch-id [**local**]

Syntax Description

local	(Optional) Displays the local switch ID information.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the FabricPath switch ID:

```
switch# show fabricpath switch-id
                        FABRICPATH SWITCH-ID TABLE
Legend: '*' - this system
==============================================================================
SWITCH-ID      SYSTEM-ID       FLAGS         STATE    STATIC  EMULATED
----------+---------------+------------+-----------+--------------------
*2590        0005.73a3.ba3c    Primary     Confirmed    No      No
Total Switch-ids: 1
O2-48_Mgmt-2(config)#
O2-48_Mgmt-2(config)# show fabricpath s?
  switch-id  Switch ID
  system-id  System-id

switch#
```

This example shows how to display the local FabricPath switch ID:

```
switch# show fabricpath switch-id local
Switch-Id: 2590
System-Id: 0005.73a3.ba3c
switch#
```

Related Commands

Command	Description
fabricpath switch-id (FabricPath)	Displays the FabricPath switch ID.

show fabricpath system-id

To display information about the FabricPath network by the system ID, use the **show fabricpath system-id** command.

show fabricpath system-id {*mac-address*}

Syntax Description

mac-address	MAC address.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display information about the FabricPath network by the system ID:

```
switch# show fabricpath system-id 0005.73a3.ba3c
Switch-Id: 2590
State: Confirmed
switch#
```

Related Commands

Command	Description
show running-config fabricpath	Displays information about the current FabricPath configuration.

show fabricpath timers

To display settings for the allocate-delay, linkup-delay, and transition-delay timers for the FabricPath network by the system ID, use the **show fabricpath timers** command.

show fabricpath timers

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display FabricPath timers:

```
switch# show fabricpath timers
Allocate Delay Timer       :   10
Transition Delay Timer     :   10
Link-up Delay Timer        :   10
switch#
```

Related Commands

Command	Description
fabricpath timers	Configures the FabricPath timers.

show fabricpath topology

To display information about the FabricPath Intermediate System-to-Intermediate System (IS-IS) topology, use the **show fabricpath topology** command.

Note Cisco Nexus 5500 Series switch only supports 2 topologies; the default or base topology (topology 0), and another optional topology (for example, topology 1).

show fabricpath topology [*topology-ID* {**ftag** [**active** | **multicast** | **unicast**] | **interface** [**ethernet** *slot/*[*QSFP-module/*]*port* | **port-channel** *channel-number*] | **vlan** [**active**]} | **detail** | **ftag** [**active** | **multicast** | **unicast**] | **interface** [**ethernet** *slot/*[*QSFP-module/*]*port* | **port-channel** *channel-number* | **vlan** [**active**]] | **vlan** [**active**]]

Syntax Description

topology-ID	FabricPath topology ID. The range is from 0 to 63.
detail	(Optional) Displays the detailed FabricPath topology information.
ftag	(Optional) Displays the forwarding tag (FTAG) of a graph.
active	(Optional) Displays the active multicast FTAGs.
multicast	(Optional) Displays the multicast FTAGs.
unicast	(Optional) Displays the unicast FTAGs.
interface	Displays the interface topology information.
ethernet	(Optional) Displays the Ethernet interface.
slot/*port*	Slot or chassis number and the port number. The slot number is from 1 to 255 and the port number is from 1 to 128.
QSFP-module	(Optional) The QSFP+ port on the Generic Expansion Module (GEM). The port numbers are from 1 to 4.
port-channel	(Optional) Displays the port-channel interface number.
channel-number	Port-channel number. The range is from 1 to 4096.
vlan	(Optional) Displays the VLANs in the Layer 2 topology.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
6.0(2)N1(2)	Support for the QSFP+ GEM.
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display VLANs in a Layer 2 topology:

```
switch# show fabricpath topology 0 vlan
Topo-Description         TPG-ID    Configured VLAN List
------------------------ --------- ----------------------------
0                        0         1-4095
switch#
```

This example shows how to display interface topology information:

```
switch# show fabricpath topology 0 interface
```

This example shows how to display active multicast FTAGs:

```
switch# show fabricpath topology 0 ftag
```

This example shows how to display the FabricPath topology interface VLANs:

```
switch# show fabricpath topology interface ethernet 2/1 vlan
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.

show feature-set

To display the status of all feature sets on the switch, use the **show feature-set** command.

show feature-set [**services** *feature-set-name*]

Syntax Description

services	Displays the services associated with a feature set.
feature-set-name	Name of the service or feature set.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the status of a feature set:

```
switch# show feature-set
Feature Set Name      ID        State
--------------------  --------  --------
fabricpath            2         enabled
virtualization        4         uninstalled
switch#
```

This example shows how to display the services associated with the FabricPath feature set:

```
switch# show feature-set services fabricpath
u2rib
drap
isis_fabricpath
3 services in feature set fabricpath
switch#
```

Related Commands

Command	Description
feature-set fabricpath	Enables the FabricPath feature set on the switch.

show mroute

To display the Layer 2 (l2) or FabricPath multicast route database, use the **show mroute** command.

show {**l2** | **fabricpath**} **mroute** {[**vdc_omf**] | [**vlan** *vlanid*] {{[**omf**] | [**flood**] | [**source** {*srcaddr* | *ipv6srcaddr*}] [**group** {*groupaddr* | *ipv6groupaddr*}]} [**resolved**] [**ftag** *ftag-id*] [**hex**]}}

Syntax Description

l2	Displays Layer 2 information.
fabricpath	Displays FabricPath information.
vdc_omf	(Optional) Displays the virtual device context (VDC) Optimized Multicast Flooding (OMF) route.
vlan	(Optional) Displays the VLAN ID.
vlan-id	(Optional) VLAN ID. The range is from 1 to 4096.
omf	(Optional) Displays the VLAN OMF route.
flood	(Optional) Displays the VLAN flood routes.
source	(Optional) Displays the source IP address.
srcassr	IPv4 source address.
ipv6srcaddr	IPv6 source address.
group	(Optional) Displays the group address.
groupaddr	IPv4 group address.
ipv6groupaddr	IPv6 group address.
resolved	(Optional) Displays the resolved switch ID next hop's underlying interfaces.
ftag	(Optional) Displays the FTAG number.
ftag-id	Forwarding tag (FTAG) ID. The range is from 1 to 1024.
hex	(Optional) Displays the switch IDs in hexadecimal.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

Note l2 can be used interchangeably with FabricPath.

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the VLAN flood routes in the FabricPath multicast route database:

```
switch# show fabricpath mroute flood
```

This example shows how to display the resolved switch ID of the next hop's underlying interfaces:

```
switch# show l2 mroute resolved
```

Related Commands

Command	Description
fabricpath load-balance	Displays FabricPath load-balancing parameters.
show running-config fabricpath	Displays the current FabricPath configuration.

show multicast trees

To display the Layer 2 (l2) or FabricPath multicast tree database, use the **show multicast trees** command.

show {**l2** | **fabricpath**} **multicast trees** [**topo** *topo-id*] [**ftag** *ftag-id*] [**hex**]

Syntax Description

l2	Displays Layer 2 information.
fabricpath	Displays FabricPath information.
topo	(Optional) Displays the topology instance.
topo-id	Topology ID. The range is from 0 to 64.
ftag	(Optional) Displays the FTAG number.
ftag-id	Forwarding tag (FTAG) ID. The range is from 1 to 1024.
hex	(Optional) Displays the switch IDs in hexadecimal.

Command Default

None

Command Modes

EXEC mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display the FabricPath multicast tree database:

```
switch# show fabricpath multicast trees
```

This example shows how to display the FTAG number of the Layer 2 multicast trees:

```
switch# show l2 multicast trees ftag 1
```

This example shows how to display the Layer 2 multicast tree database:

```
switch# show l2 multicast trees
```

Related Commands

Command	Description
show l2 route	Displays FabricPath route information.
show fabricpath route	Displays FabricPath route information.

show running-config fabricpath

To display FabricPath running system configuration information, use the **show running-config fabricpath** command.

show running-config fabricpath [**domain default | switch-id | topology | oam**] [**all**]

Syntax Description

domain	(Optional) Displays the FabricPath Intermediate System-to-Intermediate System (IS-IS) domain configuration information.
default	(Optional) Displays the FabricPath IS-IS default FabricPath domain information.
switch-id	(Optional) Displays the FabricPath switch ID configuration information.
topology	(Optional) Displays the FabricPath topology information.
oam	(Optional) Displays the FabricPath oam configuration.
all	(Optional) Displays the running configuration, including the defaults.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

This command requires an Enhanced Layer 2 license.

Examples

This example shows how to display FabricPath running system configuration information:

```
switch# show running-config fabricpath

!Command: show running-config fabricpath
!Time: Tue Oct 25 07:55:05 2011

version 5.2(1)N1(1)
install feature-set fabricpath
feature-set fabricpath

vpc domain 1
fabricpath domain default


switch#
```

Related Commands

Command	Description
fabricpath domain default	Enables FabricPath Layer 2 IS-IS.