



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
6.0(2)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.
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Command Default	None
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Command Modes	Any command mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display the information about the FabricPath FTAG: <pre>switch# show fabricpath ftag No ftag values present switch#</pre>
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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.
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Command Default	None
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Command Modes	Global configuration mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display detailed information about the IS-IS adjacency:
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```
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** *slot*/[*QSFP-module*]/*port* | **port-channel** *channel-number* } | **detail** | **summary** | **system-id** *sid*]

Syntax Description	
interface	(Optional) Displays the interface status.
ethernet	Displays the Ethernet interface.
<i>slot</i>	Slots from 1 to 8. The following list defines the slots available: • Slots 1 to 4 are fixed Linecard Expansion Modules (LEMs). • Slots 5 to 8 are hot-swappable LEMs.
<i>QSFP-module</i>	(Optional) The LEM that has been set to 10G mode. The <i>QSFP-module</i> number is from 1 to 12.
<i>port</i>	Port number within a particular slot. The <i>port</i> number is from 1 to 128.
port-channel	Displays the port-channel interface.
<i>channel-number</i>	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.
<i>sid</i>	Hostname or system ID in the format XXXX.XXXX.XXXX.

Command Default None

Command Modes Global configuration mode

Command History	Release	Modification
	6.0(2)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.
	<i>sid</i>	(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
	6.0(2)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.
<i>tree-id</i>	Tree identifier. The range is from 1 to 2.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
6.0(2)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.
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Command Default	None
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Command Modes	Global configuration mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display information about the FabricPath IS-IS hostname table:
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```
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** *slot*/[*QSFP-module*]/*port* | **port-channel** *channel-number* }

Syntax Descriptions

brief	Displays brief information about the IS-IS interface.
ethernet	Displays the Ethernet interface.
<i>slot</i>	Slots from 1 to 8. The following list defines the slots available: • Slots 1 to 4 are fixed Linecard Expansion Modules (LEMs). • Slots 5 to 8 are hot-swappable LEMs.
<i>QSFP-module</i>	(Optional) The LEM that has been set to 10G mode. The <i>QSFP-module</i> number is from 1 to 12.
<i>port</i>	Port number within a particular slot. The <i>port</i> number is from 1 to 128.
port-channel	Displays the port-channel interface.
<i>channel-number</i>	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(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.
	<i>vlan-id</i>	VLAN ID. The range is from 1 to 4094.
	group	(Optional) Displays the group information.
	<i>group-id</i>	Group ID information in the format <i>A.B.C.D</i> .
	source	(Optional) Displays the source information.
	<i>source-id</i>	Source ID in the format <i>A.B.C.D</i> .

Command Default	None
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Command Modes	Global configuration mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display information about the IS-IS mroute: switch# show fabricpath isis ip mroute
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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.
<i>vlan-id</i>	Displays the VLAN ID. The range is from 1 to 4094.
group	(Optional) Displays the group information.
<i>group-id</i>	Group ID information in the format <i>A.B.C.D</i> .
source	(Optional) Displays the source information.
<i>source-id</i>	Source ID in the format <i>A.B.C.D</i> .

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
6.0(2)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.
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Command Default	None
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Command Modes	Global configuration mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display information about the FabricPath IS-IS protocol:
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```
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#
```

 show fabricpath isis protocol**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
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Command Modes	Global configuration mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display detailed information about the IS-IS route:
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```
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/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.
<i>slot/port</i>	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.
port-channel	Displays the IS-IS RRM information for a port-channel interface.
<i>channel-number</i>	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(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.
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Command Default	None
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Command Modes	Global configuration mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display the detailed information about the FabricPath IS-IS SPF:
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```
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.
<i>slot</i>		Slots from 1 to 8. The following list defines the slots available: • Slots 1 to 4 are fixed Linecard Expansion Modules (LEMs). • Slots 5 to 8 are hot-swappable LEMs.
<i>QSFP-module</i>	(Optional)	The LEM that has been set to 10G mode. The <i>QSFP-module</i> number is from 1 to 12.
<i>port</i>		Port number within a particular slot. The <i>port</i> number is from 1 to 128.
port-channel		Displays the port-channel interface.
<i>channel-number</i>		Port-channel number. The range is from 1 to 4096.

Command Default	None
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Command Modes	Global configuration mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display information about the FabricPath IS-IS SRM: <pre>switch# show fabricpath isis srm gm ethernet 2/2</pre>
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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/port* | **port-channel** *channel-number*}

Syntax Description	gm	(Optional) Displays the IS-IS GM-Send-Sequence-Number information.
	ethernet	Displays the Ethernet interface.
	<i>slot/port</i>	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.
	port-channel	Specifies the port-channel interface.
	<i>channel-number</i>	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(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
	6.0(2)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.
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Command Default	None
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Command Modes	Global configuration mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display the switch ID database:
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```
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
	6.0(2)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** *lot*[/*QSFP-module*]/*port* | **port-channel** *channel-number*}

Syntax Description		
ethernet		Displays the Ethernet interface.
<i>slot</i>		Slots from 1 to 8. The following list defines the slots available: - Slots 1 to 4 are fixed Linecard Expansion Modules (LEMs). - Slots 5 to 8 are hot-swappable LEMs.
<i>QSFP-module</i>		(Optional) The LEM that has been set to 10G mode. The <i>QSFP-module</i> number is from 1 to 12.
<i>port</i>		Port number within a particular slot. The <i>port</i> number is from 1 to 128.
port-channel		Displays the port-channel interface.
<i>channel-number</i>		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(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#
```

 show fabricpath isis traffic**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.
	<i>tree-id</i>	Tree identifier. The range is from 1 to 2.

Command Default	None
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Command Modes	Any command mode
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Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display information about the FabricPath IS-IS tree multidestination:
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```
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 tree 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.
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Command Default	None
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Command Modes	Any command mode
----------------------	------------------

Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	This command requires an Enhanced Layer 2 license.
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Examples	This example shows how to display VLANs in the FabricPath IS-IS topology:
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```
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
	6.0(2)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 <i>vlan-ID</i>	Displays load-balancing for FabricPath VLANs. The range is from 1 to 4094.
macg <i>MAC-addr</i>	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
6.0(2)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 <i>ftag-ID</i>		Displays the load-balancing parameters for the FabricPath FTAG. The FTAG value is from 0 to 4,294,967,295.
switchid <i>switch-ID</i>		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.
<i>MAC-addr</i>		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.
<i>ip-addr</i>		IPv4 address. The format is A.B.C.D.
dst-ipv6		(Optional) Displays the load-balancing destination hash parameters.
<i>ipv6-addr</i>		IPv6 address. The format is EE:EE::EE:EE.
l4-dst-port <i>l4-dest-port</i>		(Optional) Displays the destination TCP or UDP port information used in hashing. The port number is from 0 to 65535.
l4-src-port <i>l4-src-port</i>		(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 <i>vlan-ID</i>		(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
	6.0(2)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
14-dst-port 100 14-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 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 <i>topology_ID</i>	(Optional) Displays the topology information. The topology value is from 0 to 63.
	switchid	(Optional) Displays the switch ID.
	<i>switch-ID</i>	Switch ID value. The range is from 0 to 16383.

Command Default	None
-----------------	------

Command Modes	Any command mode
---------------	------------------

Command History	Release	Modification
	6.0(2)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
```

■ show fabricpath route

```
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
	6.0(2)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:
	<pre> 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# </pre>

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

<i>mac-address</i>	MAC address.
--------------------	--------------

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
6.0(2)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
	6.0(2)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

The Cisco Nexus switch supports only two 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

<i>topology-ID</i>	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.
<i>slot</i>	Slots from 1 to 8. The following list defines the slots available: - Slots 1 to 4 are fixed Linecard Expansion Modules (LEMs). - Slots 5 to 8 are hot-swappable LEMs.
<i>QSFP-module</i>	(Optional) The LEM that has been set to 10G mode. The <i>QSFP-module</i> number is from 1 to 12.
<i>port</i>	Port number within a particular slot. The <i>port</i> number is from 1 to 128.
port-channel	(Optional) Displays the port-channel interface number.
<i>channel-number</i>	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(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.
<i>feature-set-name</i>	Name of the service or feature set.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
6.0(2)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.
<i>vlan-id</i>		(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.
<i>srcaddr</i>		IPv4 source address.
<i>ipv6srcaddr</i>		IPv6 source address.
group		(Optional) Displays the group address.
<i>groupaddr</i>		IPv4 group address.
<i>ipv6groupaddr</i>		IPv6 group address.
resolved		(Optional) Displays the resolved switch ID next hop's underlying interfaces.
ftag		(Optional) Displays the FTAG number.
<i>ftag-id</i>		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
	6.0(2)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 12 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.
	<i>topo-id</i>	Topology ID. The range is from 0 to 64.
	ftag	(Optional) Displays the FTAG number.
	<i>ftag-id</i>	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
	6.0(2)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**] [**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.
all	(Optional) Displays the running configuration, including the defaults.

Command Default

None

Command Modes

Any command mode

Command History

Release	Modification
6.0(2)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 6.0(2)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.

■ show running-config fabricpath