

show spanning-tree interface

Syntax	show spanning-tree interface <brief detail> <interface-name <i>interface-name</i> > <msti <i>msti-id</i> > <vlan-id <i>vlan-id</i> >
Release Information	Command introduced in JUNOS Release 9.0 for EX-series switches.
Description	Display the configured or calculated interface-level spanning-tree protocol (can be either STP, RSTP, or MSTP) parameters. In brief mode, will not display interfaces that are administratively disabled or do not have a physical link.
Options	<p>none—(Optional) Display brief STP interface information.</p> <p>brief detail—(Optional) Display the specified level of output.</p> <p>interface-name <i>interface-name</i>—(Optional) Name of an interface.</p> <p>msti <i>msti-id</i>—(Optional) Display STP bridge information for the specified MSTP instance ID or Common and Internal Spanning Tree (CIST). Specify 0 for CIST. Specify a value from 1 through 4094 for an MSTI.</p> <p>vlan-id <i>vlan-id</i>—(Optional) For MSTP interfaces, display interface information for the specified VLAN. Specify a value from 0 through 4094.</p>
Required Privilege Level	view
Related Topics	<ul style="list-style-type: none">■ show spanning-tree bridge■ Example: Configuring Network Regions for VLANs with MSTP on EX-series Switches■ Understanding STP for EX-series Switches■ Understanding RSTP for EX-series Switches■ Understanding MSTP for EX-series Switches■ Understanding VSTP for EX-series Switches
List of Sample Output	<p>show spanning-tree interface on page 2</p> <p>show spanning-tree interface brief on page 3</p> <p>show spanning-tree interface detail on page 3</p> <p>show spanning-tree interface ge-1/0/0 on page 4</p>
Output Fields	Table 1 lists the output fields for the show spanning-tree Interface command. Output fields are listed in the approximate order in which they appear.

Table 1: show spanning-tree interface Output Fields

Field Name	Field Description
Interface name	Interface configured to participate in the STP, RSTP, or MSTP instance.
Port ID	Logical interface identifier configured to participate in the MSTP instance.
Designated port ID	Port ID of the designated port for the LAN segment this interface is attached to.
Designated bridge ID	Bridge ID of the designated bridge for the LAN segment this interface is attached to.
Port Cost	Configured cost for the interface.
Port State	STP port state. Forwarding (FWD), blocking (BLK), listening, learning, or disabled.
Port Role	MSTP or RSTP port role. Designated (DESG), backup (BKUP), alternate (ALT), or root.
Link type	MSTP or RSTP link type. Shared or point-to-point (pt-pt) and edge or non edge.
Alternate	Identifies the interface as an MSTP or RSTP alternate root port (yes) or nonalternate root port (no).
Boundary Port	Identifies the interface as an MSTP regional boundary port (yes) or nonboundary port (no).

show spanning-tree interfaceuser@switch> **show spanning-tree interface**

Spanning tree interface parameters for instance 0

Interface	Port ID	Designated port ID	Designated bridge ID	Port Cost	State	Role
ge-0/0/0.0	128:513	128:513	8192.0019e2500340	1000	FWD	DESG
ge-0/0/2.0	128:515	128:515	8192.0019e2500340	1000	BLK	DIS
ge-0/0/4.0	128:517	128:517	8192.0019e2500340	1000	FWD	DESG
ge-0/0/23.0	128:536	128:536	8192.0019e2500340	1000	FWD	DESG

Spanning tree interface parameters for instance 1

Interface	Port ID	Designated port ID	Designated bridge ID	Port Cost	State	Role
ge-0/0/0.0	128:513	128:513	8193.0019e2500340	1000	FWD	DESG
ge-0/0/2.0	128:515	128:515	8193.0019e2500340	1000	BLK	DIS
ge-0/0/4.0	128:517	128:517	8193.0019e2500340	1000	FWD	DESG
ge-0/0/23.0	128:536	128:536	8193.0019e2500340	1000	FWD	DESG

Spanning tree interface parameters for instance 2

Interface	Port ID	Designated port ID	Designated bridge ID	Port Cost	State	Role
ge-0/0/0.0	128:513	128:1	8194.001b549fd000	1000	FWD	ROOT
ge-0/0/2.0	128:515	128:515	32770.0019e2500340	4000	BLK	DIS
ge-0/0/4.0	128:517	128:1	16386.001b54013080	1000	BLK	ALT
ge-0/0/23.0	128:536	128:536	32770.0019e2500340	1000	FWD	DESG

show spanning-tree interface brief user@switch> **show spanning-tree interface brief**
Spanning tree interface parameters for instance 0

Interface	Port ID	Designated	Designated	Port	State	Role
port ID	bridge ID	Cost				
ge-1/0/0.0	128:625	128:625	32768.0019e25095a0	20000	BLK	DIS
ge-1/0/1.0	128:626	128:626	32768.0019e25095a0	20000	BLK	DIS
ge-1/0/2.0	128:627	128:627	32768.0019e25095a0	20000	BLK	DIS
ge-1/0/10.0	128:635	128:635	32768.0019e25095a0	20000	BLK	DIS
ge-1/0/20.0	128:645	128:645	32768.0019e25095a0	20000	BLK	DIS
ge-1/0/30.0	128:655	128:655	32768.0019e25095a0	20000	BLK	DIS

show spanning-tree interface detail user@switch> **show spanning-tree interface detail**
Spanning tree interface parameters for instance 0

Interface name : ge-1/0/0.0
Port identifier : 128.625
Designated port ID : 128.625
Port cost : 20000
Port state : Blocking
Designated bridge ID : 32768.00:19:e2:50:95:a0
Port role : Disabled
Link type : Pt-Pt/EDGE
Boundary port : NA

Interface name : ge-1/0/1.0
Port identifier : 128.626
Designated port ID : 128.626
Port cost : 20000
Port state : Blocking
Designated bridge ID : 32768.00:19:e2:50:95:a0
Port role : Disabled
Link type : Pt-Pt/NONEDGE
Boundary port : NA

Interface name : ge-1/0/2.0
Port identifier : 128.627
Designated port ID : 128.627
Port cost : 20000
Port state : Blocking
Designated bridge ID : 32768.00:19:e2:50:95:a0
Port role : Disabled
Link type : Pt-Pt/NONEDGE
Boundary port : NA

Interface name : ge-1/0/10.0
Port identifier : 128.635
Designated port ID : 128.635
Port cost : 20000
Port state : Blocking
Designated bridge ID : 32768.00:19:e2:50:95:a0
Port role : Disabled
Link type : Pt-Pt/NONEDGE
Boundary port : NA

Interface name : ge-1/0/20.0
Port identifier : 128.645
Designated port ID : 128.645
Port cost : 20000
Port state : Blocking
Designated bridge ID : 32768.00:19:e2:50:95:a0

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Port role      : Disabled
Link type      : Pt-Pt/NONEDGE
Boundary port  : NA
[output truncated]
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**show spanning-tree
interface ge-1/0/0**

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user@switch> show spanning-tree interface ge-1/0/0
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Interface	Port ID	Designated	Designated	Port	State	Role
	port ID	bridge ID	Cost			
ge-1/0/0.0	128:625	128:625	32768.0019e25095a0	20000	BLK	DIS