

## show spanning-tree bridge

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- Syntax** show spanning-tree bridge  
<brief | detail>  
<msti *msti-id*>  
<vlan *vlan-id*>
- Release Information** Command introduced in JUNOS Release 9.0 for EX-series switches.
- Description** Display the configured or calculated spanning-tree protocol (can be either STP, RSTP, or MSTP) parameters.
- Options** none—(Optional) Display brief STP bridge information for all Multiple Spanning Tree Instances (MSTIs).
- brief | detail—(Optional) Display the specified level of output.
- msti *msti-id*—(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.
- vlan *vlan-id*—(Optional) Display STP bridge information for the specified VLAN. Specify a VLAN tag identifier from 1 through 4094.
- Required Privilege Level** view
- Related Topics**
- show spanning-tree interface
  - 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
- List of Sample Output** show spanning-tree bridge on page 2  
show spanning-tree bridge brief on page 3  
show spanning-tree bridge detail on page 3
- Output Fields** Table 1 on page 1 lists the output fields for the show spanning-tree bridge command. Output fields are listed in the approximate order in which they appear.

**Table 1: show spanning-tree bridge Output Fields**

Field Name	Field Description
Context ID	An internally generated identifier.
Enabled protocol	Spanning-tree protocol type enabled.
Root ID	Bridge ID of the elected spanning tree root bridge. The bridge ID consists of a configurable bridge priority and the MAC address of the bridge.

**Table 1: show spanning-tree bridge Output Fields (continued)**

Field Name	Field Description
Root cost	Calculated cost to reach the root bridge from the bridge where the command is entered.
Root port	Interface that is the current elected root port for this bridge.
CIST regional root	Bridge ID of the elected MSTP regional root bridge.
CIST internal root cost	Calculated cost to reach the regional root bridge from the bridge where the command is entered.
Hello time	Configured number of seconds between transmissions of configuration BPDUs.
Maximum age	Maximum age of received protocol BPDUs.
Forward delay	Configured time an STP bridge port remains in the listening and learning states before transitioning to the forwarding state.
Hop count	Configured maximum number of hops a BPDU can be forwarded in the MSTP region.
Message age	Number of seconds elapsed since the most recent BPDU was received.
Number of topology changes	Total number of STP topology changes detected since the switch last booted.
Time since last topology change	Number of seconds elapsed since the most recent topology change.
Bridge ID (Local)	Locally configured bridge ID. The bridge ID consists of a configurable bridge priority and the MAC address of the bridge.
Extended system ID	Internally generated system identifier.
MSTI regional root	Bridge ID of the elected MSTP regional root bridge.
Internal instance ID	An internally generated identifier.
Path Cost Method	Bridges supporting 802.1D (legacy) implement only 16-bit values for path cost. Newer versions of this standard support 32-bit values.

**show spanning-tree bridge**

```

user@switch> show spanning-tree bridge
STP bridge parameters
Context ID                : 0
Enabled protocol         : MSTP

STP bridge parameters for CIST
Root ID                   : 8192.00:19:e2:50:51:e0
Root cost                 : 0
Root port                 : ge-0/0/13.0
CIST regional root       : 8192.00:19:e2:50:51:e0
CIST internal root cost  : 2000
Hello time                : 2 seconds

```

```

Maximum age                : 20 seconds
Forward delay              : 15 seconds
Hop count                  : 18
Message age                : 0
Number of topology changes : 3
Time since last topology change : 921 seconds
Local parameters
  Bridge ID                : 16384.00:19:e2:50:44:e0
  Extended system ID       : 0
  Internal instance ID     : 0

```

STP bridge parameters for MSTI 1

```

MSTI regional root        : 4097.00:19:e2:50:51:e0
Root cost                  : 2000
Root port                  : ge-0/0/13.0
Hello time                 : 2 seconds
Maximum age                : 20 seconds
Forward delay              : 15 seconds
Hop count                  : 18
Local parameters
  Bridge ID                : 16385.00:19:e2:50:44:e0
  Extended system ID       : 0
  Internal instance ID     : 1

```

STP bridge parameters for MSTI 2

```

MSTI regional root        : 4098.00:19:e2:50:3d:20
Root cost                  : 1000
Root port                  : ge-0/0/9.0
Hello time                 : 2 seconds
Maximum age                : 20 seconds
Forward delay              : 15 seconds
Hop count                  : 19
Local parameters
  Bridge ID                : 8194.00:19:e2:50:44:e0
  Extended system ID       : 0
  Internal instance ID     : 2

```

**show spanning-tree bridge brief**

```

user@switch> show spanning-tree bridge brief
STP bridge parameters
Context ID                 : 0
Enabled protocol           : RSTP
Root ID                    : 32768.00:19:e2:50:95:a0
Hello time                 : 2 seconds
Maximum age                : 20 seconds
Forward delay              : 15 seconds
Message age                : 0
Number of topology changes : 0
Local parameters
  Bridge ID                : 32768.00:19:e2:50:95:a0
  Extended system ID       : 0
  Internal instance ID     : 0

```

**show spanning-tree bridge detail**

```

user@switch> show spanning-tree bridge detail
STP bridge parameters
Context ID                 : 0
Enabled protocol           : RSTP
Root ID                    : 32768.00:19:e2:50:95:a0
Hello time                 : 2 seconds
Maximum age                : 20 seconds

```

```
Forward delay           : 15 seconds
Message age            : 0
Number of topology changes : 0
Local parameters
  Bridge ID             : 32768.00:19:e2:50:95:a0
  Extended system ID    : 0
  Internal instance ID  : 0
  Hello time            : 2 seconds
  Maximum age           : 20 seconds
  Forward delay         : 15 seconds
  Path cost method      : 32 bit
```