

cnMatrix PVRST Parameters and Commands

Commands	Description	CLI Mode
<pre>spanning-tree vlan <vlan-id > {forward-time <seconds(4-30)> hello-time <seconds(1-10)> max- age <seconds(6-40)> hold-count <integer(1-10)> brg-priority <integer(0-61440)> root {primary secondary}}</pre>	Configures spanning tree related information on a per VLAN basis.	Global Configuration
<pre>spanning-tree encap {dot1q ISL}</pre>	Configures the encapsulation type to be used in an interface.	Interface Configuration (Physical Interface)
<pre>spanning-tree vlan <vlan-id > status {disable enable}</pre>	Configures the status of PVRST on a port for the specified VLAN.	Interface Configuration (Physical Interface)
<pre>show spanning-tree vlan <vlan-id> [{blockedports pathcost- method summary }]</pre> <p>Available options:</p> <ul style="list-style-type: none"> • <code>vlan <vlan-id ></code> - Displays the PVRST related information for the specified VLAN / VFI ID. This value ranges from 1 to 65535. • <code><vlan -id></code> - VLAN ID is a unique value that represents the specific VLAN. This value ranges from 1 to 4094. • <code><vfi-id></code> - VFI ID is a VLAN created in the system which contains Pseudo wires and Attachment Circuits as member ports. This creates a logical LAN for the VPLS service. This value ranges from 4096 to 65535. • <code>blockedports</code> - Displays the list of ports in blocked state and the total number of blocked ports, for the specified VLAN. • <code>pathcost-method</code> - Displays the pathcost method configured for the specified VLAN. • <code>summary</code> - Displays the currently used STP, applied path cost method and port details such as port ID, port role, port state and port status. 	Displays PVRST related information for the specified VLAN.	Privileged EXEC
<pre>show spanning-tree vlan <vlan-id> bridge [{address detail forward-time hello-time id max-age priority [system-id] protocol}]</pre> <p>Available options:</p> <ul style="list-style-type: none"> • <code>vlan <vlan-id ></code> - Displays the PVRST related information of the bridge for the specified VLAN. • <code>address</code> - Displays the address of 	Displays the PVRT related information of the bridge for the specified VLAN ID.	Privileged EXEC

Commands	Description	CLI Mode
<p>the bridge.</p> <ul style="list-style-type: none"> • <code>detail</code> - Displays the detailed PVRST related information for the bridge. • <code>forward-time</code> - Displays the forward delay value of the bridge. • <code>hello-time</code> - Displays the hello time value of the bridge. • <code>id</code> - Displays the ID of the bridge. • <code>max-age</code> - Displays the maximum age of the bridge. • <code>priority [system-id]</code> - Displays the priority of the bridge. • <code>protocol</code> - Displays the type of STP executed in the bridge. 		
<pre>show spanning-tree vlan <vlan-id> root [{address cost detail forward-time hello-time id max-age port priority [system-id] }]</pre> <p>Available options:</p> <ul style="list-style-type: none"> • <code>vlan <vlan-id ></code> - Displays the PVRST related information of the root for the specified VLAN / VFI ID. • <code>address</code> - Displays the address of the root. • <code>detail</code> - Displays the detailed PVRST related information for the root. • <code>forward-time</code> - Displays the forward delay value of the root. • <code>hello-time</code> - Displays the hello time value of the root. • <code>id</code> - Displays the ID of the bridge. • <code>max-age</code> - Displays the maximum age of the root. • <code>priority [system-id]</code> - Displays the priority of the root. • <code>protocol</code> - Displays the type of STP executed in the root. 	Displays the PVRT related information of the root, for the specified VLAN ID.	Privileged EXEC
<pre>show spanning-tree vlan <vlan-id> interface <ifnum> [{ cost detail priority rootcost state stats }]</pre> <p>Available options:</p> <ul style="list-style-type: none"> • <code>vlan <vlan-id></code> - Displays the interface PVRST related information for the specified VLAN. • <code>cost</code> - Displays the cost of the specified port. • <code>detail</code> - Displays detailed interface specific PVRST related information for the port. • <code>priority</code> - Displays the priority of the specified port. • <code>rootcost</code> - Displays the root cost 	Displays interface specific PVRST information for the specified VLAN.	Privileged EXEC

Commands	Description	CLI Mode
of the port. <ul style="list-style-type: none"> • <code>state</code> - Displays the state of the port. • <code>stats</code> - Displays the port level spanning tree statistics information. 		
<pre>show spanning-tree vlan <vlan-id> active [detail]</pre>	Displays PVRST related information for the specified active VLAN.	Privileged EXEC
<pre>show spanning-tree vlan <vlan-id> detail [active]</pre>	Displays the detailed PVRST related information for the specified VLAN.	Privileged EXEC