

DGS-3630 Series Switches

Setting Up Spanning Tree Protocol

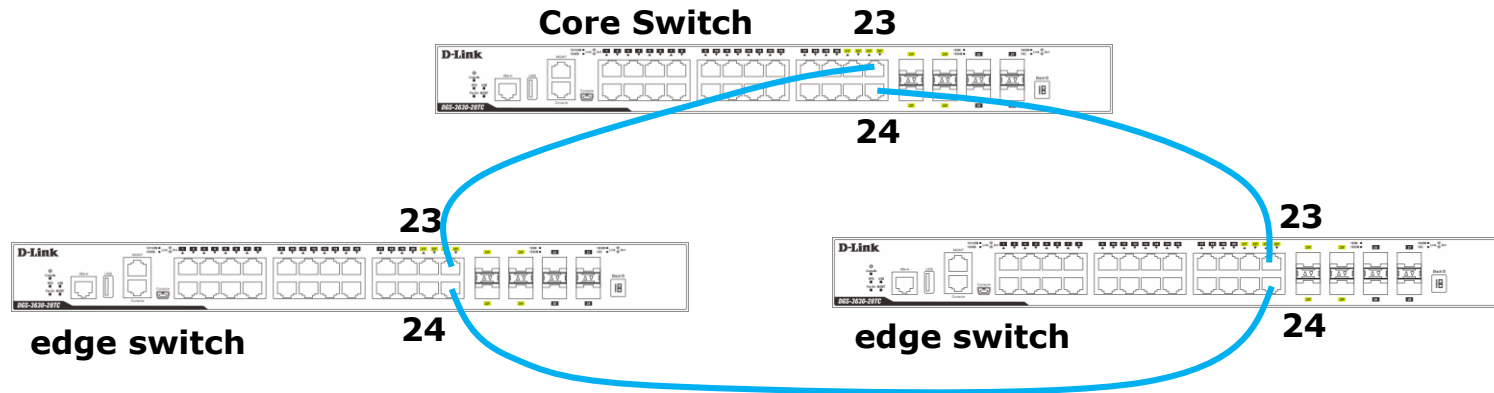
Setting up STP (CLI)

Best practice is to have Core Switch set as "STP Root Switch".

A switch with the lowest "Priority ID" is elected as "STP Root Switch". Default "Priority ID" is 32768.

If switches have the same "Priority ID" the switch with lowest MAC address is elected as "STP Root Switch".

- Enable RSTP on your switch with RSTP Priority 16384.
- Set non-participating ports as edge ports.



```
Switch(config)# spanning-tree global state enable
Switch(config)# spanning-tree mode rstp
Switch(config)# spanning-tree priority 16384
Switch(config)# interface range ethernet 1/0/1-22
Switch(config-if-range)# spanning-tree portfast edge
Switch# show spanning-tree
```

Setting up STP (CLI)

Check STP port status: # show spanning-tree

Interface	Role	State	Cost	Priority .Port#	Link Type	Edge
eth1/0/5	designated	forwarding	20000	128.5	p2p	edge
eth1/0/23	designated	forwarding	20000	128.23	p2p	non-edge
eth1/0/24	backup	blocking	20000	128.24	p2p	non-edge

Setting up STP (GUI)

- Go to L2 Features > STP > STP Global Settings.
- Set STP State to Enabled.
- Set STP Mode to RSTP.
- Set STP Priority to 16384

The screenshot displays the D-Link web interface for configuring STP. On the left is a navigation tree with a 'Fuzzy Search' box at the top. The tree is expanded to show 'L2 Features' > 'STP' > 'STP Global Settings', which is highlighted. The main content area is titled 'STP Global Settings' and contains three sections:

- STP State:** The 'STP State' is set to 'Enabled' via a radio button, which is highlighted with a red box.
- STP Traps:** Both 'STP New Root Trap' and 'STP Topology Change Trap' are set to 'Disabled' via radio buttons.
- STP Mode:** The 'STP Mode' is set to 'RSTP' via a dropdown menu, which is highlighted with a red box.
- STP Priority:** The 'Priority (0-61440)' is set to '16384' via a dropdown menu, which is highlighted with a red box.

Setting up STP (GUI)

- Under STP Port Settings set non-participating ports (1 to 22) as "Edge" with Cost set on Auto (0).

Fuzzy Search

DGS-3630-28TC

- System
- Management
- L2 Features
 - FDB
 - VLAN
 - VLAN Tunnel
 - STP
 - STP Global Settings
 - STP Port Settings**
 - MST Configuration Identifi

STP Port Settings

STP Port Settings

From Port To Port

Cost (1-200000000, 0=Auto) State Guard Root

Link Type Port Fast TCN Filter

BPDU Forward Priority Hello Time (1-2)

Loop Guard

MSTP Port Information

Port

eth1/0/24 Settings

Instance ID	Cost	Priority	Status	Role	
CIST	20000	128	Blocking	Backup	<input type="button" value="Edit"/>