

Which switch has all of its ports forwarding (no blocked ports)	Root
Repeatedly forwarding the same frame over the same link wasting network bandwidth and host CPU resources	Broadcast Storm
IEEE standard # for legacy STP	802.1 D
IEEE standard # for Rapid STP (RSTP)	802.1W
Minimum Reconvergence Time on slow STP	30 secs (2 x forward delay)
Maximum Reconvergence Time on slow STP	50 secs (2 x forward delay + max age)
Why the difference (above two)?	If your OWN port failed, it won't take 20 seconds to realize it (10x hello)
How is the Router ID Created? Does low or high win?	Concat Priority + MAC; Low wins

Port Role Description	Name	In 802.1d
Lowest cost path to root switch (on a non-root switch)	Root	X
Could replace the root port during a failure	Alternate	
Chosen to forward frames to and from a network segment (collision domain)	Designated	X
Could replace a designated port from the same switch—probably made more sense with coax cable daisy-chain topologies	Backup	
Administratively down (interface shutdown command)	Disabled	X

802.1D Port States	RSTP States	Stable	Learn Macs	Forwarding
Disabled	Discarding	•		
Blocking	Discarding	•		
Listening	—			
Learning	Learning		•	
Forwarding	Forwarding	•	•	•

STP Versions	Spanning-tree Mode Command	Show Spanning-Tree Output
PVST+	pvst	ieee
RPVST+	rapid-pvst	rstp

Port Types	(Is it point-to-point or shared and is it edge or not)	
	Full-Duplex	Half-Duplex
No Portfast	Point-to-Point	Shared
Portfast	Point-to-Point Edge	Shared Edge

