



AV Network Best Practices (Pakedge Configuration)

"The network is the foundation of a reliable system."

Best Practice's AV Network

Not All Managed Switches are Created Equal

"There are AV Centric Managed Switches Pre-configured out of the box and some Managed Switches Need to be Configured to Support Information Below"

All Pakedge Managed Switches are Layer 3, however will need to be Configured.

Enable STP, Set to:

- MSTP (Multiple Spanning Tree Protocol) *“Because Android/Google TV Uses Ethernet [V]LAN or inter-VLAN”*

To access the *Spanning Tree Switch Configuration* menu:

1. Click the switch's **Advanced** tab, then click the **Spanning Tree** tile.

Spanning Tree
Manage, configure, and monitor Spanning Tree Protocol (STP) activity for MST, MST Ports, and CST Ports.

The *Spanning Tree Switch Configuration* screen opens.

Spanning Tree

Switch MST MST Port CST CST Port Statistics

Spanning Tree Switch Configuration

Spanning Tree Admin Mode

Needs to be Turned On

Force Protocol Version

IEEE802.1d IEEE802.1w IEEE802.1s

Configuration Name

E8-C7-4F-14-5B-5B

Root Bridge Priority:

- Default 32768 Should Be Fine
- Max Age should be 20
- Forward Delay should be 15

CST Configuration

Use the *CST Configuration* page to configure the Common Spanning Tree (CST) settings. The settings and information on this page define the device within the spanning tree topology that connects all STP/RSTP bridges and MSTP regions.

1. In the *Spanning Tree* screen, click the **CST** tab.

Spanning Tree

Switch MST MST Port **CST** CST Port Statistics

The *Spanning Tree CST* screen opens.

Spanning Tree

Switch MST MST Port **CST** CST Port Statistics

Spanning Tree CST Configuration

Bridge Priority
32768

Bridge Max Age
20

Bridge Forward Delay
15

32768 is Good

Confirm 20 for Max Age

Confirm 15 for Forward Delay

Port Settings:

- Set All to Priority 128

CST Port Configuration

Use the *CST Port* page to view and configure the Common Spanning Tree (CST) settings for each interface on the device.

1. In the *Spanning Tree* screen, click the **CST Port** tab.

Spanning Tree

Switch MST MST Port CST **CST Port** Statistics

The *Spanning Tree CST Port* screen opens.

Spanning Tree

Switch MST MST Port CST **CST Port** Statistics

Spanning Tree CST Port Summary

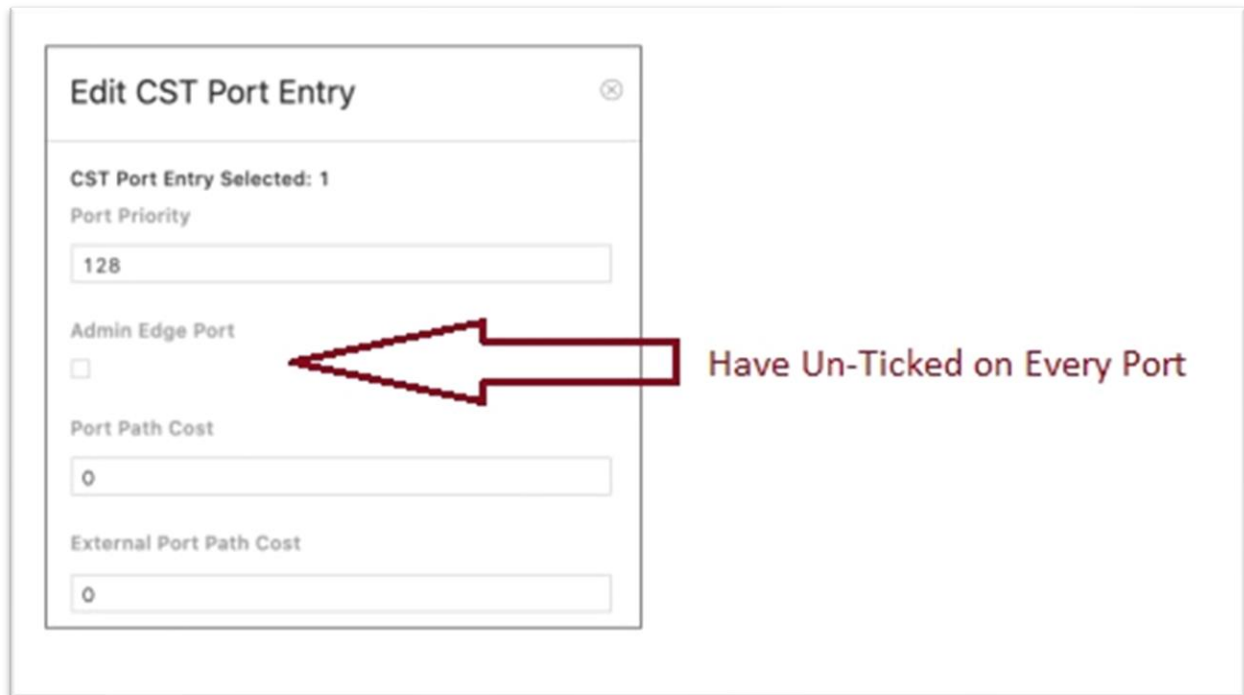
Filter By

| Interface | Name | Port Role | Port Forwarding State | Port Priority | Port Path Cost | Description | Action |
|-----------|--------|-----------|-----------------------|---------------|----------------|-------------|--------|
| G1/1 | Port 1 | Disabled | Manual Forwarding | 128 | 0 | | ... |
| G1/2 | Port 2 | Disabled | Manual Forwarding | 128 | 0 | | ... |
| G1/3 | Port 3 | Disabled | Manual Forwarding | 128 | 0 | | ... |

Set All to Priority 128

Admin Edge Port:

- Have this un-ticked on every port.



Loop Protection Configuration:

- Don't Turn on Loop Protection

