

Enable Spanning Tree Protocol (STP) on a Wireless Access Point

Objective

Spanning Tree Protocol (STP) is a network protocol used on a Local Area Network (LAN). The purpose of STP is to allow redundant connection between devices while ensuring a loop-free topology for a LAN. STP removes loops through an algorithm that guarantees that there is only one active path between two network devices. It ensures that traffic takes the shortest path possible within the network. It can also automatically re-enable redundant paths as backup paths in case the active path fails.

STP eliminates network loops thereby optimizing the performance of the network.

This article aims to show you how to enable Spanning Tree Protocol on a wireless access point (WAP).

Applicable Devices

- WAP500 Series – WAP571, WAP571E
- WAP351

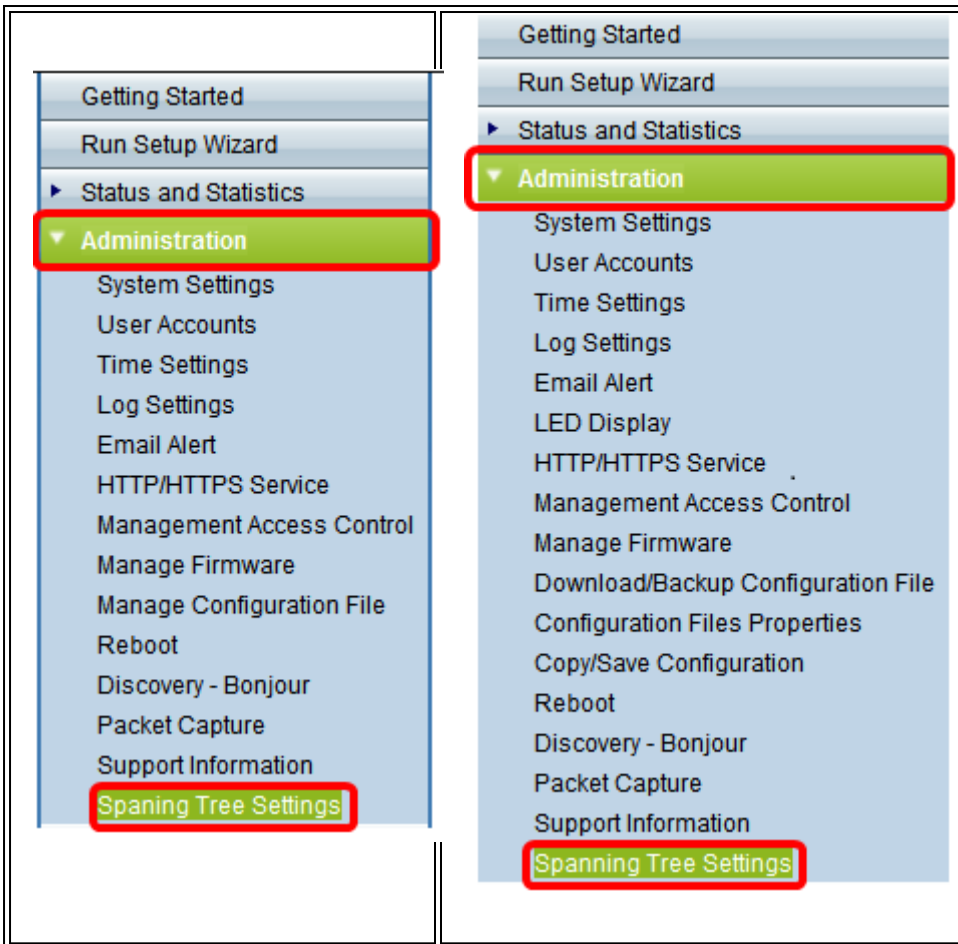
Software Version

- 1.0.0.17 — WAP571, WAP571E
- 1.0.2.2 — WAP351

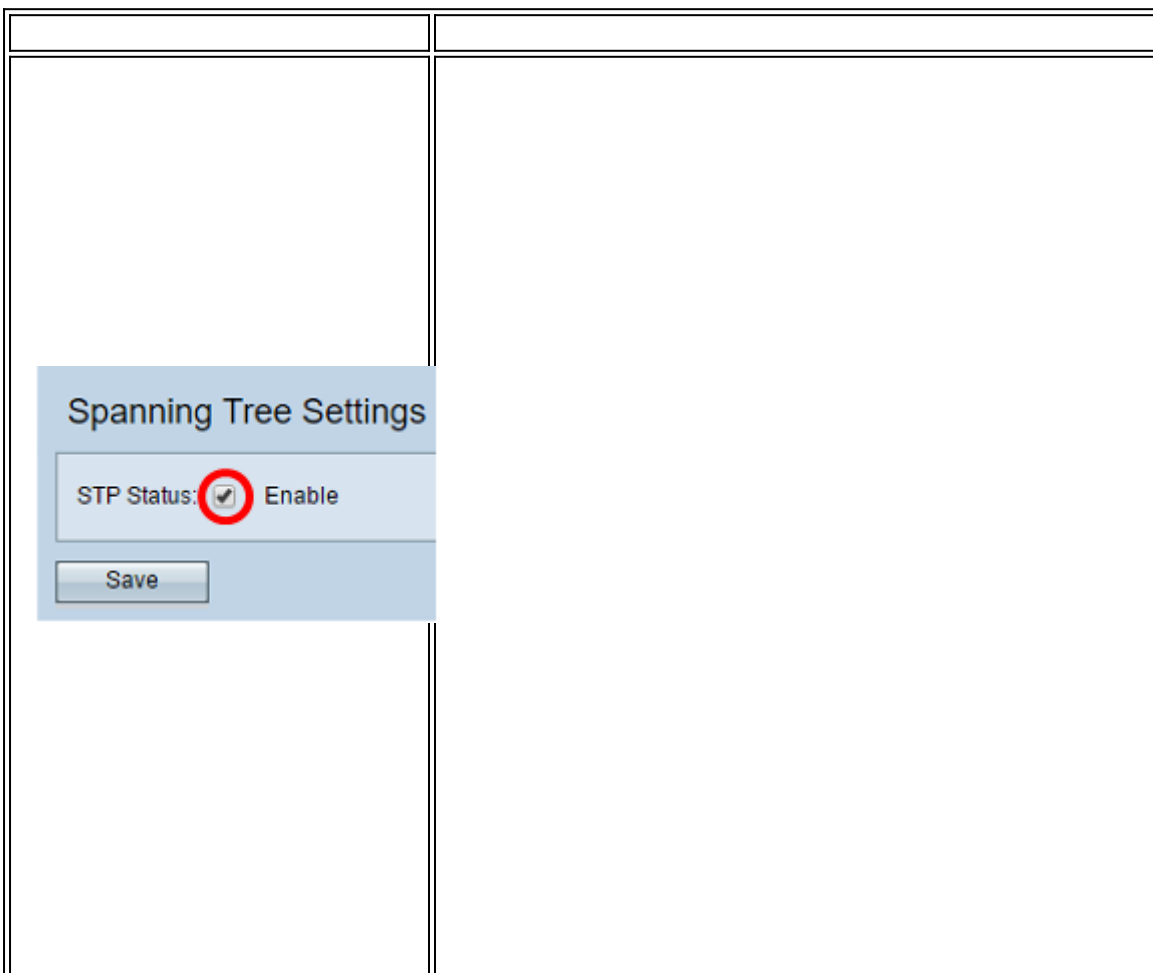
Enable Spanning Tree on a WAP

Step 1. Log in to the web-based utility of the access point and choose **Administration > Spanning Tree Settings**.

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Step 2. Make sure the STP Status check box is checked to enable the feature globally. When enabled, STP helps prevent switching loops. This option is enabled by default.



Spanning Tree Settings

STP Status: Enable

Flood BPDUs if STP is disabled on port(s): Enable

Per Port STP Status Setting	
Ethernet/WDS Port	STP Status
GE1	<input checked="" type="checkbox"/> Enable
GE2	<input type="checkbox"/> Enable
GE3	<input checked="" type="checkbox"/> Enable
GE4	<input checked="" type="checkbox"/> Enable
GE5	<input checked="" type="checkbox"/> Enable
WDS0	<input type="checkbox"/> Enable
WDS1	<input type="checkbox"/> Enable
WDS2	<input checked="" type="checkbox"/> Enable
WDS3	<input checked="" type="checkbox"/> Enable

Note: If you have a WAP571/WAP571E, skip to [Step 5](#).

Step 3. (Optional) Check the **Enable** Flood BPDUs if STP is disabled on port(s) check box to flood the BPDUs packets received from the port or ports whose STP status is disabled, or uncheck to drop the BPDUs packets received from the port or ports whose STP status is disabled. This option is enabled by default and is only found in the WAP351.

Spanning Tree Settings

STP Status: Enable

Flood BPDU if STP is disabled on port(s): Enable

Per Port STP Status Setting	
Ethernet/WDS Port	STP Status
GE1	<input checked="" type="checkbox"/> Enable
GE2	<input type="checkbox"/> Enable
GE3	<input checked="" type="checkbox"/> Enable
GE4	<input checked="" type="checkbox"/> Enable
GE5	<input checked="" type="checkbox"/> Enable
WDS0	<input type="checkbox"/> Enable
WDS1	<input type="checkbox"/> Enable
WDS2	<input checked="" type="checkbox"/> Enable
WDS3	<input checked="" type="checkbox"/> Enable

Save

Step 4. (Optional) Under the Per Port STP Status Setting area, check the check boxes to enable STP on your preferred Ethernet/WDS port.

Note: In this example, STP is enabled on the GE1, GE3, GE4, GE5, WDS2, and WDS3 ports only.

Spanning Tree Settings

STP Status: Enable

Flood BPDU if STP is disabled on port(s): Enable

Per Port STP Status Setting	
Ethernet/WDS Port	STP Status
GE1	<input checked="" type="checkbox"/> Enable
GE2	<input type="checkbox"/> Enable
GE3	<input checked="" type="checkbox"/> Enable
GE4	<input checked="" type="checkbox"/> Enable
GE5	<input checked="" type="checkbox"/> Enable
WDS0	<input type="checkbox"/> Enable
WDS1	<input type="checkbox"/> Enable
WDS2	<input checked="" type="checkbox"/> Enable
WDS3	<input checked="" type="checkbox"/> Enable

[Step 5.](#) Click **Save**.

You have now successfully enabled spanning tree protocol on your wireless access point.