

ZebOS®  
Network Platform

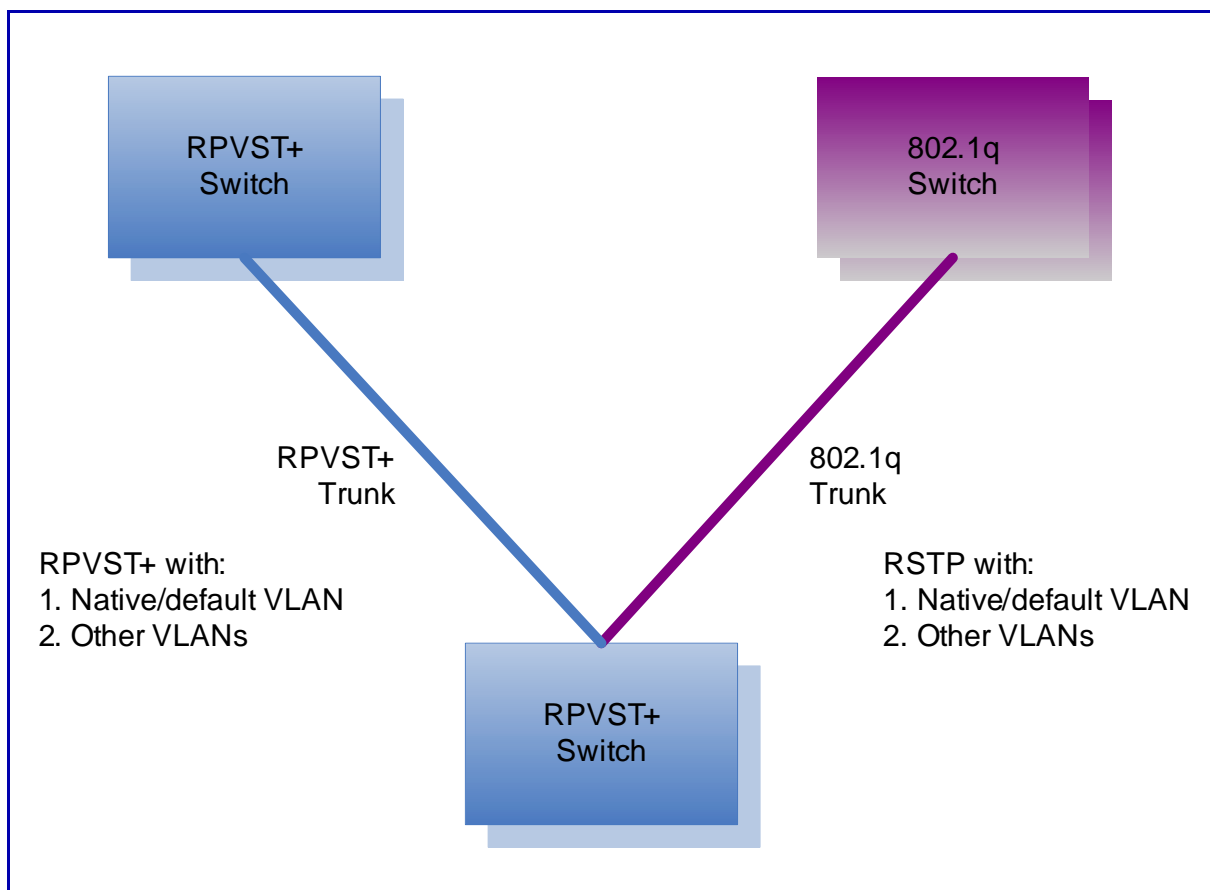
## RPVST+

### Overview

The ZebOS® Rapid per VLAN Spanning Tree Plus (RPVST+) protocol builds an individual spanning-tree topology for each VLAN defined on a bridge. This topology runs on RPVST+ and 802.1q trunks. When a client puts a switch in RPVST+ mode, the switch can then support both RPVST+ and 802.1q inter-switch trunks. In RPVST+ mode, each VLAN runs its own independent spanning-tree instance. In addition, RPVST+ bridges can have different spanning-tree topologies for different VLANs within an autonomous switching domain.

### Supported RPVST+ Inter-switching Scenarios

ZebOS RPVST+ supports the following inter-switching scenarios.



**RPVST+ Inter-switching Scenarios**

## Features

- Concurrent support for RPVST+, STP, and MSTP with multiple bridge instances
- Support for default and native VLANs

## Benefits

- Scalability
- Load balancing capability
- Rapid-convergence attributes

## Requirements

- ZebOS NSM — Network Service Manager
- ZebOS Layer 2 xSTP — Spanning Tree, Rapid Spanning Tree, and Multiple Spanning Tree Protocol
- ZebOS Layer 2 VLAN — VLAN and Prioritization with Shared and Independent VLAN Learning (SVL/IVL)

## Standards Support

- IEEE 802.1q — Virtual LANs
- IEEE 802.1w — Rapid configuration of Spanning Tree

## Standard Deliverables

- Source Code (written in ANSI-compliant C)
- Command Reference Guide
- Developer Guide
- Installation Guide
- Configuration Guide