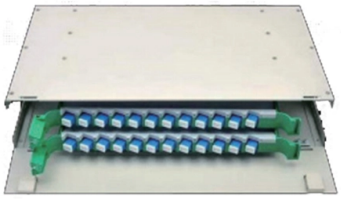
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Two network ports of the switch converge



Overview

PVST/RPVST PortFast ExplainedConvergence refers to a state where all ports have transitioned through all states and their UniFi Academy STP will eventually.

Key Takeaways

When two ports on the same switch converge, STP or RSTP detects potential loops and places one port into a blocking state to maintain network stability.Understanding Port Convergence

When two ports on a switch are connected, the Spanning Tree Protocol (STP) or Rapid STP (RSTP) ensures that a loop does not occur. STP monitors the network topology and, if it detects a loop, it will block one of the ports while keeping the other in a forwarding state, allowing traffic to flow safely . In RSTP, convergence is faster, typically taking only a few seconds, as the protocol aggregates blocking, listening, and disabled states into a single discarding state .

Portfast and Loop Considerations

If portfast is enabled on the connected ports, they initially enter the forwarding state immediately. This can cause a brief flurry of traffic as the loop is detected, but STP will still eventually block one port to prevent a permanent loop . Portfast should generally be used only on ports connected to end devices, not on inter-switch links, to avoid temporary network instability.

VLAN and STP Behavior

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

The behavior also depends on the VLAN configuration. If both ports are in the same VLAN, STP will detect a loop and block one port. If the ports are in different VLANs, no loop occurs, and both ports can forward traffic independently . This principle is sometimes used in devices operating in bridge mode or for failover mechanisms.

Key Takeaways
• STP/RSTP ensures network stability by blocking redundant paths when loops are detected.

• Convergence occurs when all ports are in forwarding or blocking states, allowing normal communication .

• Portfast should be disabled on inter-switch links to prevent temporary loops.

• VLAN separation can allow multiple ports to forward simultaneously without creating loops. By understanding these mechanisms, network administrators can safely manage redundant connections and ensure fast convergence without risking broadcast storms or network loops.

Article Content

PVST/RPVST PortFast Explained

Convergence refers to a state where all ports have transitioned through all states and their

UniFi Academy

STP will eventually block one side of the loop, but during convergence the network may experience outages, high

PortFast Configured On a Cisco Switch Port

Minimize the amount of time trunk ports waits for the spanning tree to converge. This allows the port to immediately

Spanning Tree Reconvergence

Let''s create a simple diagram that has all the port statuses: Before we start messing around with topology changes. Let''s take a look

Spanning Tree Protocol (STP) Convergence, What is Layer 2 Network ...

Spanning Tree Protocol (STP) convergence (Layer 2 convergence) happens when bridges and switches have transitioned to either

Understand Rapid Spanning Tree Protocol (802.1w)

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

In order to illustrate the effect of the sync mechanism on different kind of ports, suppose there exists an alternate port

12 Flashcards

For each port, identify the port role and status after spanning tree convergence by matching the port states on the left with the ports

Classic STP Convergence

When a switch needs to signal a topology change, it starts to send TCNs on its root port. The (upstream) designated

Spanning Tree Topology (STP) Convergence

Ports may change their status from forwarding to blocking and vice-versa. But this port status process changing does

Two ports on one switch connected to each other

If you are running a single instance or the 2 ports you connect together are in the same vlan then as Rick has pointed

Connecting two VLANs together on a single switch

I''m doing some experiments and I want to know if it is possible to connect two VLANs on a single switch by using just a cable

How does STP convergence work?

Here is the basic process: 1. Decide which port has the lowest cost to the root. That becomes the root port. 2. For

Expanding Router Ports and Connecting Switches

Switches vs Routers When expanding the ports on the network we use additional switches

Convergence network switch, Convergence ethernet switch

MISCOM7020G-4GC-16GT layer 2 network managed rack mounted industrial Ethernet switch supports 4 Gigabit combo ports, and

Understand Rapid Spanning Tree Protocol (802.1w)

The legacy STA passively waited for the network to converge before it turned a port into the forwarding state. The

Fiber Internet Setup Gpon Fiber Converter, Mikrotik hex ...

Enjoy the videos and music you love, upload original content, and share it all with

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Rapid Spanning Tree (RSTP)

Learning A Proposal/agreement mechanism replaces the timer-based convergence. All switches generate BPDUs every hello time (2

Fastest Internet Plans | Converge

Converge delivers the fastest fiber internet with unlimited data and reliable connectivity. Experience seamless browsing and streaming.

How to Connect Old Routers to Main Router | PLDT to PLDT/Globe

Pwede bang i-connect ang lumang router tulad ng PLDT router or Globe modem router sa

Configuring VRRP | Junos OS | Juniper Networks

To avoid such a situation and to enable faster convergence time, in Junos OS Release 12.2 and later, you can configure a fast

Configure Converged Access in a Single-Switch Small Branch Network

Background Information The small-size remote branch office or retail store can consist of a single or a stack of

3 FAQs of Connecting Switches by Fiber Optical Ports

Switch optical port intercommunication means that the optical fiber ports of two switches are connected to each other

How To Enable All LAN Port On Converge?

To enable all LAN port on converge, follow these simple steps #lanport #enablelanport #enablelanportconverge

Configuring VRRP | Junos OS | Juniper Networks

To avoid such a situation and to enable faster convergence time, in Junos OS Release 12.2 and later, you can configure a fast

Configure Converged Access in a Single-Switch Small

Background Information The small-size remote branch office or retail store can consist of a

3 FAQs of Connecting Switches by Fiber Optical Ports

Switch optical port intercommunication means that the optical fiber ports of two switches are

How To Enable All LAN Port On Converge?

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

To enable all LAN port on converge, follow these simple steps #lanport #enablelanport

Solved: REP convergence failure

However if I remove the trunk link between the 2 IE-3000-4TC access switches, the Alt port does not open, REP does

Reddit

We would like to show you a description here but the site won''t allow us.

Switching Loops

Loops can occur because someone accidentally physically loops an ethernet cable to two ports on the

Residential Fiber Internet | Converge

Upgrade to Converge FiberX. Ultra-fast residential fiber internet built for seamless work, play, and streaming.

connecting multiple switches together

What happens to a network if you connect 2 netgear switches together?

SoftPerfect Switch Port Mapper : network port identification tool

The SoftPerfect Switch Port Mapper tool works with managed network switches and reports what is connected to switch ports, and

switch

What is likely to happen when you plug two ends of a network cable to a single switch/router? Will this create problems

STP convergence process needs detailed explanation, please

In order to prevent cycles in the topology, while the tree converges, there is a separate mechanisms to switch ports

What is an Ethernet Switch? Ethernet Switching | Fortinet

An Ethernet switch, or network switch, is a type of networking hardware that uses multiple ports to communicate between devices in

Multiple Trunks between two Layer 2 Switches

We have a fiber line running between two layer 2 switches. We have a port on each switch set up as a trunk. That

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Connecting two VLANs together on a single switch

I''m doing some experiments and I want to know if it is possible to connect two VLANs on a single switch by using just a cable

How does STP convergence work?

Here is the basic process: 1. Decide which port has the lowest cost to the root. That becomes the root port. 2. For

Expanding Router Ports and Connecting Switches

Switches vs Routers When expanding the ports on the network we use additional switches

Convergence network switch, Convergence ethernet switch

MISCOM7020G-4GC-16GT layer 2 network managed rack mounted industrial Ethernet switch supports 4 Gigabit combo ports, and

Understand Rapid Spanning Tree Protocol (802.1w)

The legacy STA passively waited for the network to converge before it turned a port into the forwarding state. The

Fiber Internet Setup Gpon Fiber Converter, Mikrotik hex ...

Enjoy the videos and music you love, upload original content, and share it all with

Rapid Spanning Tree (RSTP)

Learning A Proposal/agreement mechanism replaces the timer-based convergence. All switches generate BPDUs every hello time (2

Fastest Internet Plans | Converge

Converge delivers the fastest fiber internet with unlimited data and reliable connectivity. Experience seamless browsing and streaming.

How to Connect Old Routers to Main Router | PLDT to PLDT/Globe

Pwede bang i-connect ang lumang router tulad ng PLDT router or Globe modem router sa

Configuring VRRP | Junos OS | Juniper Networks

To avoid such a situation and to enable faster convergence time, in Junos OS Release 12.2 and later, you can configure a fast

Configure Converged Access in a Single-Switch Small Branch Network

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Background Information The small-size remote branch office or retail store can consist of a single or a stack of

3 FAQs of Connecting Switches by Fiber Optical Ports

Switch optical port intercommunication means that the optical fiber ports of two switches are connected to each other

How To Enable All LAN Port On Converge?

To enable all LAN port on converge, follow these simple steps #lanport #enablelanport #enablelanportconverge

PVST/RPVST PortFast Explained

Convergence refers to a state where all ports have transitioned through all states and their

UniFi Academy

STP will eventually block one side of the loop, but during convergence the network may experience outages, high

PortFast Configured On a Cisco Switch Port

Minimize the amount of time trunk ports waits for the spanning tree to converge. This allows the port to immediately

Spanning Tree Reconvergence

Let''s create a simple diagram that has all the port statuses: Before we start messing around with topology changes. Let''s take a look

Spanning Tree Protocol (STP) Convergence, What is Layer 2 Network ...

Spanning Tree Protocol (STP) convergence (Layer 2 convergence) happens when bridges and switches have transitioned to either

Understand Rapid Spanning Tree Protocol (802.1w)

In order to illustrate the effect of the sync mechanism on different kind of ports, suppose there exists an alternate port

12 Flashcards

For each port, identify the port role and status after spanning tree convergence by matching the port states on the left with the ports

Classic STP Convergence

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

When a switch needs to signal a topology change, it starts to send TCNs on its root port. The (upstream) designated

Spanning Tree Topology (STP) Convergence

Ports may change their status from forwarding to blocking and vice-versa. But this port status process changing does

Two ports on one switch connected to each other

If you are running a single instance or the 2 ports you connect together are in the same vlan then as Rick has pointed

PVST/RPVST PortFast Explained

Convergence refers to a state where all ports have transitioned through all states and their

UniFi Academy

STP will eventually block one side of the loop, but during convergence the network may experience outages, high

PortFast Configured On a Cisco Switch Port

Minimize the amount of time trunk ports waits for the spanning tree to converge. This allows the port to immediately

Spanning Tree Reconvergence

Let''s create a simple diagram that has all the port statuses: Before we start messing around with topology changes. Let''s take a look

Spanning Tree Protocol (STP) Convergence, What is Layer 2 Network ...

Spanning Tree Protocol (STP) convergence (Layer 2 convergence) happens when bridges and switches have transitioned to either

Understand Rapid Spanning Tree Protocol (802.1w)

In order to illustrate the effect of the sync mechanism on different kind of ports, suppose there exists an alternate port

12 Flashcards

For each port, identify the port role and status after spanning tree convergence by matching the port states on the left with the ports

Classic STP Convergence

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

When a switch needs to signal a topology change, it starts to send TCNs on its root port. The (upstream) designated

Spanning Tree Topology (STP) Convergence

Ports may change their status from forwarding to blocking and vice-versa. But this port status process changing does

Two ports on one switch connected to each other

If you are running a single instance or the 2 ports you connect together are in the same vlan then as Rick has pointed

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: https://zithatech.co.za
Technical inquiry: https://zithatech.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved