

STP alternatives

A 2 day **Hands on** training course



Description

The Spanning Tree Protocol (STP) dates from 1985. This course explores the technologies that can be used as an alternative to STP, including FabricPath, SPB and TRILL.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Explain how STP and RSTP work.
- ✓ Explain how TRILL works
- ✓ Explain how SPB works.
- ✓ Explain how FabricPath works.



Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Technical network staff.

Prerequisites

Definitive Ethernet switching for engineers

Duration: 2 days

Overall rating:



Generic training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small class sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise your course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

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Course content

Introduction

Layer 2 versus Layer 3, STP problems: One path, convergence, MAC explosion, STP alternatives.

STP

802.1D, how STP works, root bridge, convergence times, single path.

RSTP

802.1w, Improvements, convergence times.

Link aggregation

802.3ad, Multi system Link aggregation.

IS-IS

Concepts, Discovery, topology exchange, flooding. Changes for TRILL, FabricPath and SPB.

FabricPath

Overview, architecture, control plane protocols, DRAP, STP interactions, packet forwarding, configuration.

TRILL

Concepts, RBridge, TRILL frames, control plane, data plane, learning MAC addresses.

SPB

802.1aq, Node ID, Backbone Edge Bridges, Backbone MAC address, customer MACs, I-SID, forwarding database.

What our customers say

"Absolutely brilliant, very knowledgeable and helpful trainer would recommend to teach anyone. Kept me interested 100% of the time which is very impressive as this does not happen often, if at all!"

O. B. Network Rail

"The best technical course I've been on!"

L. W. Fujitsu Telecoms Europe

"Very well thought out and structured course. Would recommend 100%. Lots of equipment, good quality."

A.R. Unipart

"Course content is interesting. Relevant to current systems and presented well."

S.S-T. Arqiva

