

Definitive SRv6 for engineers

A 1 day **Hands on** training course



Description

This one day SRv6 training course is a condensed, intensive program designed to provide network professionals with a fast-track introduction to SRv6 (Segment Routing over IPv6). SRv6 is a revolutionary networking technology that combines the power of IPv6 with the flexibility of Segment Routing, enabling efficient and scalable network operations. In just one day, participants will gain essential knowledge and practical skills to understand, configure, and work with SRv6 in modern network environments. Hands on sessions are used to reinforce the theory rather than teach specific manufacturer equipment.



Key outcomes

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

- ✓ Explain how SRv6 works.
- ✓ Explain the difference between SR and SRv6.
- ✓ Implement SRv6.
- ✓ Troubleshoot SRv6.



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?

Network engineers, architects, and administrators who want to quickly grasp the fundamentals of SRv6 and its practical applications in their network.

Prerequisites

Definitive Segment Routing for engineers.

Overall rating: **New course**

Duration: 1 day

Generic Training



Generic training complements 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 to SRv6

What is SRv6?
Source based routing,
difference between SR-MPLS and SRv6.
IPv6 headers review, routing headers.
SRv6 simplified solution.
Hands on: Enabling IPv6 in the legacy network.

SRv6 transport

Segment Routing Extension Header.
SRv6 segment identifiers.
End SID, End.X SID.
ISIS distribution of SIDs.
Header processing in a SRv6 topology.
Locators.
Hands on: Configuring SRv6 transport. Analysing SRv6 operation.

SRv6 services

End.DT4 SID, End.DT6 SID.
SRH encapsulation modes: Insert and Encap modes.
SRv6 TE policy.
Hands on: Migrating to SRv6, TI-LFA protection.
Micro loop avoidance.

SRv6 integration with “older” technologies

MPLS.
The role of iBGP and eBGP v6 sessions.
Hands on: Integration with legacy network.

Troubleshooting SRv6

SRv6 ping and traceroute.
Hands on: Used throughout the course during exercises.

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

