

# Session Border Controllers for engineers

A 2 day **Hands on** training course



## Description

A hands on course covering Session Border Controllers with a focus on the technical workings of features commonly found in Session Border Controllers. Hands on practicals follow each major theory session.



## Key outcomes

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

- ✓ Explain how Session Border Controllers work.
- ✓ Explain the SIP call flow using a SBC.
- ✓ Deploy Session Border Controllers.
- ✓ Describe the features found in Session Border Controllers.



## 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 staff working with SIP.

### Prerequisites

Definitive SIP for engineers.

**Duration:** 2 days

**Customer 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

# Session Border Controllers for engineers

## Course content

### SIP review

Signalling, media, RTP, SIP, peer to peer, SIP proxies, SIP call flows. Hands on: SIP packet analysis.

### Session Border Controllers

What is a SBC? SBC features, peering scenario, access scenario, NNI SBC, UNI SBC, enterprise SBC. Hands on: SBC call flows.

### SBC topology hiding

Header privacy, B2BUA. Hands on: Header analysis.

### Session control

Call admissions, QoS, statistics and billing, redundancy and scalability. Hands on: SBC session control.

### SBC and NAT

NAT traversal, STUN, ICE, NAT and SIP, NAT and RTP. Hands on: SBC and NAT traversal.

### SBC and security

DoS, access control, encryption, authentication, toll fraud, regulatory issues, lawful intercept. Hands on: Security.

### Interoperability mediation

Manipulating SIP headers, IMS, IETF, TISPAN, SIP-I. SBC interworking.

## 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

