



The SIP School Certified Associate – SSCA™

Exam Objectives

The SSCA exam is designed to test your skills and knowledge on the protocol SIP (Session Initiation Protocol). Everything that you need to cover in order to pass this test is covered in the SIP School training modules but if you decide to learn about SIP elsewhere then these are the topics that you should learn about in order to be prepared for the test.

Please note that if you go along an alternate training path it is possible that you may get a question that may not have been covered in that path. It's up to you!

- SIP Components
- SIP Clients and Servers
- SIP Proxies
- SIP Redirect Servers
- SIP Registrars
- SIP Gateways
- The PSTN and SIP
- SIP Messages / Headers
- SIP Methods and Response Codes
- SIP Registration
- SIP Session Setup
- The SIP Call Process
- SIP Mobility
- Call Forking
- SDP – The Session description Protocol
- SIP and MIME
- SIP and B2BUA
- SIP Trunks
- SIP Peering
- SIP PBX Requirements
- NGNs
- SIP Interops
- SIP to PSTN Call Flows
- SIP and Early Media
- SIP Gateways
- TRIP

SIP-T and Bridging
ISUP to SIP Code Mapping
SIP INFO
Authentication
Authorization
Encryption
Firewalls, NAT and SIP
Firewall and NAT Solutions
Attacks and Responses
Voice Sampling and Codecs
Mean Opinion Scores
RTP
RCTP
Quality of Service
VLANS
Layer 2 and 3 Classification
Installing a SIP Phone
Installing a Soft Phone
Choosing an ITSP
Capturing Traffic with Wireshark
SIP Message flows in Wireshark
Common SIP Problems
E.164 numbers
What ENUM is and Why
ENUM and DNS
e164.arpa
ENUM TIERS and Registrars
DNS and AOR
ENUM queries
NAPTR Records
Testing ENUM
Call Flows
ENUM Registration