

Cisco H.323 and SIP Training

This Cisco H.323 and SIP training covers how to choose between and use H.323 or SIP on your collaboration network, ensuring that your network maintains communication reliably. This Cisco Unified Communications Manager (CUCM) training also incorporates key skills from both the CLACCM and CLCOR courses.

[CBT Nuggets course material](#) →

WEEK 1

Review SIP Call Flows

157 min.

CLACCM 300-815 Exam Overview	7
Basic SIP Call Flow	5
Examine SIP Call Flows	13
Examine SIP Call Flows only using text	10
Examine Additional SIP Call Flows	11
Validation	4

PRACK and Mid-call Signaling (Hold/Resume)

Introduction	1
Provisional Response Acknowledgment (PRACK)	13
Mid-call Signaling – CUCM Hold/Resume	12
Mid-call Signaling – CUBE Hold/Resume	10
Validation	5

Mid-call Signaling - Call Transfer

Introduction	1
Why do we need to perform Call Transfers?	7
Call Transfer Demo using a packet capture	5
Call Transfer Breakdown - Blind Transfer (CUCM)	11
Call Transfer Breakdown – Consult Transfer (CUCM)	7
Call Transfer - CUBE	7
Validation	4

Conferencing and SIP Session Timers

Introduction	1
Conferencing SIP Call Flow	11
SIP Session Timers	12

WEEK 2

149 min.

SIP Session Timers (CUBE)	10
SIP Session Timers (CUCM)	7
SIP Session Timers	17
Validation	5

SIP UPDATE and DTMF Relay

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SIP UPDATE	8
Dual Tone Multi-Frequency (DTMF)	4
In-Band DTMF Relay - Named Telephony Events	11
Out-of-Band DTMF Relay - SIP Key Press Markup Language (KPML)	13
Out-of-Band DTMF Relay - Unsolicited Notify	8
Dial-peers and DTMF Relay	7
CUCM and DTMF	2
Validation	5

Troubleshoot Call Setup & Media Establishment

Introduction	1
Normal Call Setup and Tear Down	4
404 Not Found	5
487 Request Canceled	5
Scenario 1: Incoming calls from the ITSP are not successful	6
Scenario 2: Incoming calls from the ITSP are not successful	4
Scenario 3: Outbound calls to ITSP are not successful	6
Troubleshoot Media Establishment (CLI commands)	6

Troubleshoot Media Establishment (The approach)	4
Scenario 4: 488 Not Acceptable Media	4
Validation	6