

Cisco IOS XE Gateway and Media Resources

This Cisco IOS XE Gateway and Media Resources training course covers how to manage and configure gateways supported by Cisco's IOS XE operating system and deliver media resources to enterprise users.

[CBT Nuggets course material](#) →

WEEK 1

Introduction to Dial Peers

155 min.

Pots and VoIP Dial Peers	9
Pots and VoIP Dial Peers Demo (Inbound call from PSTN)	19
Pots and VoIP Dial Peers Demo (Outbound call to PSTN)	11
Testing Outbound Dial Peers	7

Dial Peer Matching and Selection Preference

Introduction	1
Dial Peer 0	9
Dial Peer Longest Explicit Match	4
POTS Dial-Peer Inbound Selection Preference	8
POTS Dial-Peer Outbound Selection Preference	6
CUBE Dial Plan	13
Complete our CUBE Dial Plan	7

Dial Peer Wildcards & Building a Sample Dial Plan

Introduction	1
Dial Peer Wildcards	11
Dial Peer Wildcards Demo	12
Voice Gateway Dial Plan	21

SIP based Dial Peers

Introduction	1
CUBE Enhanced Dial Plan	15

WEEK 2

151 min.

SIP Dial-Peer Inbound Selection Preference	16
Dial-Peer Groups	9
Dial-Peer Provision Policies	9
SIP Dial-Peer Outbound Selection Preference	6

Dual tone multi-frequency (DTMF)

Introduction	1
Dual Tone Multi-Frequency (DTMF)	7
Named Telephony Events (RFC 2833)	7
Key Press Markup Language (RFC 4730)	5
Unsolicited Notify (UN)	3
CUCM and Unsolicited Notify (UN) Messages	3
DTMF and MTP	3
SIP INVITE(s) compared for DTMF	3
Performing Packet Captures	14

Voice Translation Rules and Profiles

Introduction	1
Voice Translation Rules	12
Additional Voice Translation Rules	15
Voice Translation Profiles	6
Apply Translation Profiles Inbound to a Dial Peer	11
Apply Translation Profiles Outbound to a Dial Peer	6
Apply Translation Profiles to a Voice Port	8
Voice Translation Rules Verification	5

CODEC Negotiation and CODEC Preference Lists

Introduction	1
--------------	---

WEEK 3

153 min.

Negotiation of Codecs	8
Default CODEC configuration for a dial peer	8
Configure CUBE Local Transcoding Interface (LTI) Transcoding	9
Configure a Specific CODEC for a Dial Peer	16
Configure Codec Voice Class and Preference Lists	9
Codec Transparent and SDP Passthrough	9

ISDN PRI/BRI, VAD and MTP

Introduction	1
Troubleshoot ISDN PRI/BRI	9
Debug ISDN Q931	11
Voice Activity Detection (VAD)	8
Cisco Media Resources	7
Configure IOS-XE MTP	1

Conference Bridges, Transcoders and MRGLs

Introduction	1
Configure IOS-XE Conference Bridge	10
Configure IOS-XE Transcoder	9
CUCM - Media Resource Groups and Lists	7
Create CUCM Media Resource Groups	4
Create CUCM Media Resource Group Lists	3
Applying MRGL at the Device Pool and Phone Level	14

Test Resources, Local Gateways and MoH Selection

Introduction	1
Test IOS-XE MTP	8

WEEK 4

43 min.

Test IOS-XE Transcoder	8
Test IOS-XE Conference Bridge	11
Describe Cloud Calling Hybrid Local Gateway	9
Music On Hold Audio Sources and Selection	15