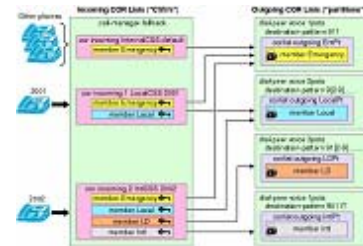




500 EIGHTH Ave, Suite 1203, New York, NY. 10018



Cisco IPT Design



Course Length: 4 weeks (32 hours), Instructor-led
Skill Development: Design and implement Cisco IP Telephony network systems
Prerequisites: CCNA
Target Audience: Engineers engaged in voip projects and/or pursuing Cisco IP Tdesign Specialist track which includes IPTD exam to provide students with knowledge and skills to design and implement Cisco IP Telephony network systems.
Course Objective:
Lab: One-year onsite

Topics to be covered:

Determine the relevant critical business and technical needs in order to develop a Cisco IP Telephony design framework

- Determine which factors affect the choice of signaling type
- Decide which business considerations are relevant to the IP Telephony design

Choose the correct topology to meet the stated requirements

- Recognize the characteristics/limitations of a single-site IP Telephony deployment
- Recognize the characteristics/limitations of a multi-site centralized processing IP Telephony deployment
- Recognize the characteristics/limitations of a multi-site distributed processing IP Telephony deployment
- Recognize the characteristics/limitations of distributed cluster IP Telephony deployment

Select the appropriate hardware and software components to support the proposed design

- Determine which high availability issues would influence the selection of network hardware and software
- Determine how in-line power requirements influence hardware and software selection
- Determine how CAC issues would influence hardware and software selection
- Determine how a given supported IP telephony design models influences cluster hardware and software selection
- Determine how PSTN connectivity issues influence hardware and software selection
- Determine how conferencing and transcoding influence hardware and software selection
- Determine how MoH issues would influence hardware and software selection
- Determine how wireless IP telephony influence the selection of hardware and software selection
- Determine how analog telephony devices would influence hardware and software selection

Create a design that supports the traffic needs of a converged network

- Determine how LAN application requirements influence LAN design and QoS
- Choose the appropriate LAN and QoS design elements given LAN application requirements
- Determine how WAN bandwidth requirements influence network design and QoS
- Choose the appropriate WAN and QoS design elements given WAN application requirements
- Determine how CODEC types influence network design
- Determine how VoIP packet size influences voice quality
- Choose how CAC requirements will influence WAN design and QoS
- Determine how CAC requirements influence LAN design and QoS

Identify the security concerns relevant to an IP telephony design

- Determine if an existing customer security plan will influence IP telephony design
- What affect will the existing security have on the planned converged network
- What affect will the converged network have on required enterprise security

Course Assessment

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