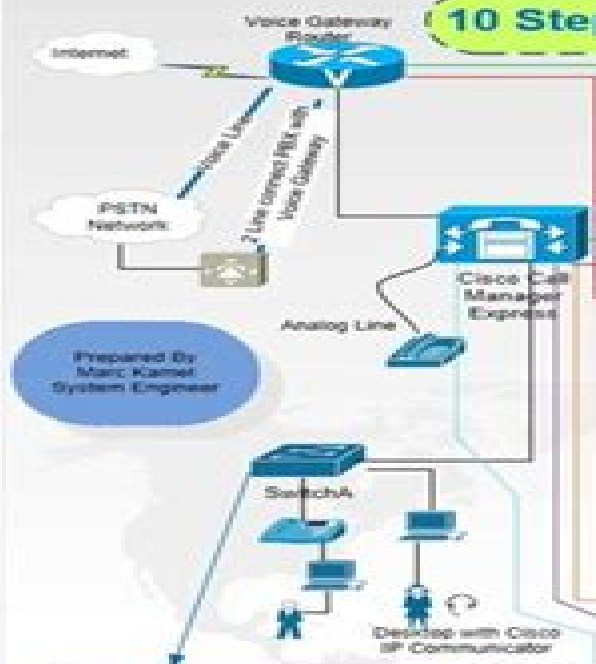


10 Step to configure Cisco Call Manager Express



Configuring Inter-VLAN Routing

2

```
Router(config)# interface FastEthernet 0/0
Router(config-if)# ip address 172.16.1.1 255.255.255.0
Router(config-if)# no shutdown
Router(config-if)# exit
Router(config)# interface FastEthernet 0/1
Router(config-if)# ip address 172.16.1.2 255.255.255.0
Router(config-if)# no shutdown
Router(config-if)# exit
Router(config)# interface FastEthernet 0/2
Router(config-if)# ip address 172.16.1.3 255.255.255.0
Router(config-if)# no shutdown
Router(config-if)# exit
Router(config)# interface FastEthernet 0/3
Router(config-if)# ip address 172.16.1.4 255.255.255.0
Router(config-if)# no shutdown
Router(config-if)# exit
```

Configuring a Router-Based DHCP Server

3

```
RTR# configure terminal
RTR(config)# ip dhcp excluded-address 172.16.1.1 172.16.1.9
RTR(config)# ip dhcp excluded-address 172.16.2.1 172.16.2.9
RTR(config)# ip dhcp pool DATA_SCOPE
RTR(dhcp-config)# network 172.16.2.0 255.255.255.0
RTR(dhcp-config)# default-router 172.16.2.1
RTR(dhcp-config)# dns-server 4.2.2.2
RTR(dhcp-config)# exit
RTR(config)# ip dhcp pool VOICE_SCOPE
RTR(dhcp-config)# network 172.16.1.0 255.255.255.0
RTR(dhcp-config)# default-router 172.16.1.1
RTR(dhcp-config)# option 150 ip 172.16.1.1WAN
RTR(dhcp-config)# dns-server
```

Setting the Clock of a Cisco Device with NTP



```
WAN_RTR# configure terminal
WAN_RTR(config)# osp server 64.209.210.20
WAN_RTR(config)# clock timezone Cairo -2
```

Installing CME Files into Flash Memory

CONFIDENTIAL - SOURCE INFORMATION

Configuring Router-Based TFTP Services for IP Phone Firmware Files

[illegible]

Configuring the Cisco Unified CME System-Level Functions


```
CME Provisioning CME Phone and Directory Number Support
CME_Voiceconfig telephony-voice
CME_Voiceconfig telephony-m music-playback 7
v1-80k Maximum phones to support
CME_Voiceconfig telephony-m music-playback 24
v1-80k Maximum directory numbers supported
exit
CME_Voiceconfig telephony-m music-on hold

Configuring CME for TFTP and TFTP Firmware Loads
CME_Voiceconfig tftp-server flash ipphone7905-7971apps79.8-3-2-ST.sbin allow apps79.8-3-2-ST.sbin
CME_Voiceconfig tftp-server flash ipphone7905-7971firmw79.8-3-2-ST.bin allow firmw79.8-3-2-ST.bin
CME_Voiceconfig tftp-server flash ipphone7905-7971firmw79.8-3-2-ST.bin allow firmw79.8-3-2-ST.bin
CME_Voiceconfig tftp-server flash ipphone7905-7971fwupd79.8-3-2-ST.sbin allow fwupd79.8-3-2-ST.sbin
CME_Voiceconfig tftp-server flash ipphone7905-7971jcr79scop.8-3-2-ST.sbin allow jcr79scop.8-3-2-ST.sbin
CME_Voiceconfig tftp-server flash ipphone7905-7971SCCPFW.8-3-2-SL.loads allow SCCPFW.8-3-2-SL.loads
CME_Voiceconfig tftp-server flash ipphone7905-7971firmw79.8-3-2-SL.loads allow firmw79.8-3-2-SL.loads
load 7976 SCOPFW.8-3-2-SL.loads
Updating CNF files
CNF files update complete
CME_Voiceconfig telephony-load 7971 SCOPFW.8-3-2-SL.loads
Updating CNF files
CNF files update complete
```

Source IP Address Information

CRAB: <http://www.cranberry.org> (for the grapefruit) - <http://www.cranberry.org>

Generating IP Phone Configuration Files

100

```
CNFS_Videoconvert_Hemaphysyll creates conf files  
CNFS The operation is already On  
Unsetting CNFS Free  
CNFS Free update complete
```

Configuring a Switch Trunk Port

Download & install Firefox	Download & install Internet Explorer	Download & install Netscape	Download & install Safari
Download & install Opera	Download & install Google Chrome	Download & install Microsoft Edge	Download & install Brave

Correspondence: W. A. Auld

[illegible]

Assigning SwitchPort to a VLAN

- Switch-Adaptive: Adaptive forwarding
- Switch-Adaptive: Adaptive forwarding: Adaptive
- Switch-Adaptive: Adaptive forwarding: Adaptive
- Switch-Adaptive: Adaptive forwarding: Adaptive

Aalborg University, Aalborg and Aarhus, Denmark
 E-mail: andreas@math.aau.dk

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Configuring a Trunk to the CME Router

```
SwitchA# configure terminal
SwitchA(config)# interface fastEthernet 0/23
SwitchA(config-if)# description CONNECTION TO ROUTER
ONALSTOCK CASE ROUTER
SwitchA(config-if)# speedmode trunk encapsulation dot1q
SwitchA(config-if)# speedmode mode trunk
```

Verifying Files Served by the CME TFTP Service

[illegible]

Cisco Unified Communications Manager Configuration Guide

M Lipman



Cisco Unified Communications Manager Configuration Guide:

Implementing Cisco Unified Communications Manager, Part 2 (CIPT2) Foundation Learning Guide Chris Olsen, 2011-08-01 Implementing Cisco Unified Communications Manager Part 2 CIPT2 Second Edition is a Cisco authorized self paced learning tool for CCNP Voice foundation learning This book provides you with the knowledge needed to install and configure a Cisco Unified Communications Manager solution in a multisite environment By reading this book you will gain a thorough understanding of how to apply a dial plan for a multisite environment configure survivability for remote sites during WAN failure and implement solutions to reduce bandwidth requirements in the IP WAN This book focuses on Cisco Unified Communications Manager CUCM Release 8 x the call routing and signaling component for the Cisco Unified Communications solution The book has been fully updated and includes new coverage of topics such as Service Advertisement Framework SAF and Call Control Discovery CCD Whether you are preparing for CCNP Voice certification or simply want to gain a better understanding of deploying Cisco Unified Communications Manager in a multisite environment you will benefit from the foundation information presented in this book Implementing Cisco Unified Communications Manager Part 2 CIPT2 Second Edition is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Chris Olsen CCVP and CCNP along with numerous other Cisco voice specializations Microsoft VMware and Novell certifications has been an independent IT and telephony consultant author and technical editor for more than 15 years He has been a technical trainer for more than 19 years and has taught more than 60 different courses in Cisco Microsoft VMware and Novell For the last seven years he has specialized in Cisco and recently Microsoft Unified Communications along with VMware virtualization and Cisco data center technologies He has done a wide array of IT and telephony consulting for many different companies Identify multisite issues and deployment solutions Implement multisite connections Apply dial plans for multisite deployments Examine remote site redundancy options Implement Survivable Remote Site Telephony SRST and Media Gateway Control Protocol MGCP Fallback Implement CUCM Express in SRST mode Implement bandwidth management and call admission control CAC Configure device and extension mobility Apply Service Advertisement Framework SAF and Call Control Discovery CCD This volume is in the Foundation Learning Guide Series offered by Cisco Press These guides are developed together with Cisco as the only authorized self paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams

Configuring Cisco Unified Communications Manager and Unity Connection David J. Bateman, 2011-05-09 The definitive up to date guide to planning configuring and administering Cisco call processing and voice messaging This book brings together all the hands on knowledge you need to successfully configure and administer Cisco s flagship IP voice systems

including Cisco Unified Communications Manager CUCM Unity and Unity Connection Fully updated for the new CUCM Unity and Unity Connection version 8 it presents step by step procedures for every common and complex task that installers integrators and administrators will encounter Long time Cisco voice implementer and instructor David Bateman begins with clear well organized explanations of Cisco Voice over IP technology including its key functions and devices Next he guides you through preparation and deployment including configuring CUCM for maximum performance removing DNS dependencies defining enterprise parameters configuring regions and enforcing security The author presents quick access step by step solutions for dozens of post deployment tasks each with thorough instructions and cross references to prerequisite tasks wherever needed He demonstrates how to integrate features to create more powerful IP voice systems thoroughly introduces Cisco s new management interface and provides extensive coverage of the latest feature enhancements David Bateman is a certified Cisco instructor CCNA and director of curriculum development for Skyline ATS He has 20 years of internetworking experience including more than a decade as a senior LAN WAN engineer in networks serving up to 5 000 users He then ran the business operations of a technical services company while maintaining his existing networking client base David has taught and implemented Cisco voice technologies since 2000 He authored this book s first edition and co authored CCNA Voice Exam Cram Establish a foundation for CUCM configure services set enterprise parameters register devices and more Add gateways and client devices Create dial plans including route patterns route lists route groups CTI route points translation patterns and route filters Configure Class of Service CoS and Call Admission Control Implement IP phone service media resources and Extension Mobility Prepare to deploy Unity Connection verify integration define system parameters and create templates distribution lists and CoS Add import and manage users Make the most of Unity Connection call management from basic auto attendant to advanced routing rules and audio text Integrate legacy voicemail systems Master Unity Connection s key administrative tools and utilities Use time of day routing call queuing and other advanced features This IP communications book is part of the Cisco Press Networking Technology Series IP communications titles from Cisco Press help networking professionals understand voice and IP telephony technologies plan and design converged networks and implement network solutions for increased productivity

Implementing Cisco Unified Communications Manager, Part 2 (CIPT2) (Authorized Self-Study Guide) Chris Olsen, 2008-10-09 Authorized Self Study Guide Implementing Cisco Unified Communications Manager Part 2 CIPT2 Foundation learning for CIPT2 exam 642 456 Chris Olsen Implementing Cisco Unified Communications Manager Part 2 CIPT2 is a Cisco authorized self paced learning tool for CCVP foundation learning This book provides you with the knowledge needed to install and configure a Cisco Unified Communications Manager solution in a multisite environment By reading this book you will gain a thorough understanding of how to apply a dial plan for a multisite environment configure survivability for remote sites during WAN failure implement solutions to reduce bandwidth requirements in the IP WAN enable Call Admission Control CAC and

automated alternate routing AAR and implement device mobility extension mobility Cisco Unified Mobility and voice security This book focuses on Cisco Unified CallManager Release 6.0 the call routing and signaling component for the Cisco Unified Communications solution It also includes H.323 and Media Gateway Control Protocol (MGCP) gateway implementation the use of a Cisco Unified Border Element and configuration of Survivable Remote Site Telephony (SRST) different mobility features and voice security Whether you are preparing for CCVP certification or simply want to gain a better understanding of deploying Cisco Unified Communications Manager in a multisite environment you will benefit from the foundation information presented in this book Implementing Cisco Unified Communications Manager Part 2 (CIPT2) is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Chris Olsen is the president and founder of System Architects Inc a training and consulting firm specializing in Cisco Microsoft and Novell networking IP telephony and information technologies Chris has been teaching and consulting in the networking arena for more than 15 years He currently holds his CCNA CCDA CCNP and CCVP certifications as well as various Microsoft certifications Identify multisite issues and deployment solutions Implement multisite connections Apply dial plans for multisite deployments Examine remote site redundancy options Deploy Cisco Unified Communications Manager Express in SRST mode Implement bandwidth management call admission control (CAC) and call applications on Cisco IOS gateways Configure device extension mobility and Cisco unified mobility Understand cryptographic fundamentals and PKI Implement security in Cisco Unified Communications Manager This volume is in the Certification Self Study Series offered by Cisco Press Books in this series provide officially developed self study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations Category Cisco Unified Communications Manager 6.0 Covers CIPT2 Exam 642 456

Implementing Cisco Unified Communications Manager
Josh Finke, Dennis Hartmann, 2012 Rev ed of Implementing Cisco Unified Communications Manager authorized self study guide Dennis Hartmann Chris Olsen c2008 c2009

Implementing Cisco Unified Communications Manager, Part 1 (CIPT1) (Authorized Self-Study Guide) Dennis Hartmann, 2008-06-23 Foundation learning for CIPT1 exam 642 446 Dennis Hartmann CCIE No 15651 Implementing Cisco Unified Communications Manager Part 1 (CIPT1) is a Cisco authorized self paced learning tool for CCVP foundation learning This book provides the knowledge necessary to install configure and deploy a Cisco Unified Communications solution based on Cisco Unified Communications Manager the call routing and signaling component of the Cisco Unified Communications solution By reading this book you will gain an understanding of deploying a Cisco Unified Communications Manager to support single site centralized distributed and hybrid call processing models This book focuses on Cisco Unified Communications Manager Release 6.x You will learn how to install and configure Cisco Unified

Communications Manager power over Ethernet switches and gateways using MGCP You will also learn how to build a scalable dial plan for on net and off net calls The dial plan chapters of the book cover call routing call coverage digit manipulation class of service and call coverage components This book will teach you how to implement media resources LDAP directory integration and various endpoints including Skinny Client Control Protocol SCCP and Session Initiation Protocol SIP Cisco Unified Video Advantag endpoint configuration is covered in addition to Cisco Unity voice mail integration and basic voice mail box creation Various user features are discussed including Presence Whether you are preparing for CCVP certification or simply want to gain a better understanding of Cisco Unified Communications Manager fundamentals you will benefit from the foundation information presented in this book Implementing Cisco Unified Communications Manager Part 1 CIPT1 is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Dennis J Hartmann CCIE No 15651 is a lead Unified Communications instructor at Global Knowledge Dennis has been working with CallManager since CallManager 2.0 Dennis has various technical certifications CCIE No 15651 CCVP CCSI CCNP CCIP and MCSE Dennis has worked with various Fortune 500 companies including AT T Sprint Merrill Lynch KPMG and Cabletron Systems Understand Cisco Unified Communications Manager architecture and components Evaluate Cisco Unified Communications Manager deployment models Install upgrade and administer Cisco Unified Communications Manager Apply network configuration NTP and DHCP configuration options Configure and manage user accounts Deploy various Cisco Unified IP Phones Configure Catalyst switches for power over Ethernet and voice VLAN requirements Harden IP Phones to mitigate security risks Configure Media Gateway Control Protocol MGCP gateways Configure dial plans call routing and digit manipulation Deploy various media resources and user features Integrate Cisco Unity Voicemail with Cisco Unified Communications Manager Configure video enabled IP Phones This volume is in the Certification Self Study Series offered by Cisco Press Books in this series provide officially developed self study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations Category Cisco Unified Communications Manager 6 Covers CIPT1 exam 642 446 65 00 USA 72 00 CAN

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Implementing Cisco IP Telephony and Video, Part 2 (CIPTV2) Foundation Learning Guide (CCNP Collaboration Exam 300-075 CIPTV2) William Alexander Hannah,Akhil Behl,2016-03-05 Now fully updated for Cisco s new CIPTV2 300 075 exam Implementing Cisco IP Telephony and Video Part 2 CIPTV2 Foundation Learning Guide is your Cisco authorized learning tool for CCNP Collaboration preparation Part of the Cisco Press Foundation Learning Series it teaches advanced skills for implementing a Cisco Unified Collaboration solution in a multisite environment The authors show how to implement Uniform Resource Identifier URI dialing globalized call routing Intercluster Lookup Service and Global Dial Plan Replication Cisco Service Advertisement Framework and Call Control Discovery tail end hop off Cisco Unified Survivable Remote Site Telephony Enhanced Location Call Admission Control CAC and Automated Alternate Routing AAR and important mobility features They introduce each key challenge associated with Cisco Unified Communications UC multisite deployments and present solutions focused coverage of Cisco Video Communication Server VCS Control the Cisco Expressway Series and their interactions with Cisco Unified Communications Manager Each chapter opens with a topic list that clearly identifies its focus ends with a quick study summary of key concepts and presents review questions to assess and reinforce your understanding The authors present best practices based on Cisco Solutions Reference Network Designs and

Cisco Validated Designs and illustrate operation and troubleshooting via configuration examples and sample verification outputs This guide is ideal for all certification candidates who want to master all the topics covered on the CIPTV2 300 075 exam Shows how to craft a multisite dial plan that scales allocates bandwidth appropriately and supports QoS Identifies common problems and proven solutions in multisite UC deployments Introduces best practice media architectures including remote conferencing and centralized transcoding Thoroughly reviews PSTN and intersite connectivity options Shows how to provide remote site telephony and branch redundancy Covers bandwidth reservation at UC application level with CAC Explains how to plan and deploy Cisco Device Mobility Extension Mobility and Unified Mobility Walks through deployment of Cisco Video Communication Server and Expressway series including user and endpoint provisioning Covers Cisco UCM and Cisco VCS interconnections Shows how to use Cisco UC Mobile and Remote Access Covers fallback methods for overcoming IP WAN failure Demonstrates NAT traversal for video and IM devices via VCS Expressway Introduces dynamic dial plan learning via GDPR SAD or CCD

Ultimate Cisco Collaboration Infrastructure for Enterprise Solutions: Unlock the True Potential of Cisco Collaboration Infrastructure for Deploying and Managing Solutions for Enterprises Lalit Pamnani, 2024-08-03 Master Cisco Collaboration Infrastructure One Chapter at a Time Key Features Comprehensive lifecycle coverage of Cisco Collaboration Infrastructure Practical application focus for real world admin scenarios and troubleshooting Includes numerous references and resources for holistic implementation and further exploration Book Description This comprehensive book is designed to help IT professionals master the complex landscape of Cisco Collaboration Infrastructure It covers a wide range of topics from the basics of collaboration technologies and deployment models to advanced concepts like dial plan configuration media resources and conferencing The book also explores the Cisco Webex suite hybrid solutions and edge servers providing readers with a holistic understanding of Cisco's collaboration offerings Readers will gain a deep understanding of signaling and media protocols including SIP RTP and RTCP as well as essential protocols like DTMF and fax over IP The book also addresses security compliance and recovery strategies ensuring that readers are well equipped to handle the challenges of managing Cisco Collaboration Infrastructure in real world scenarios Throughout the book practical examples and real world insights are provided along with an introduction to automation and APIs in the context of Cisco Collaboration solutions By the end of this book readers will have a comprehensive toolkit to excel in managing Cisco Collaboration Infrastructure whether they are novice IT admins professionals preparing for Cisco Collaboration exams or experienced administrators looking to upgrade their skills The book also includes additional resources and discusses emerging trends ensuring that readers stay up to date with the latest developments in the field What you will learn Gain practical skills to deploy and manage Cisco's collaboration tools ensuring smooth operations and integration within your organization's infrastructure Learn to set up and resolve issues with essential components like dial plans media resources and conferencing systems to ensure seamless communication Understand and implement signaling and media protocols like

SIP RTP and RTCP for effective Cisco Collaboration implementation Develop strategies to protect and sustain your Cisco collaboration environment addressing security concerns and maintaining operational health Discover how to leverage APIs for automating routine tasks improving efficiency and enhancing the functionality of Cisco Collaboration tools Stay updated with the latest advancements and trends in collaboration tech ensuring your skills and knowledge remain current and relevant Table of Contents1 Introduction to Modern Collaboration Technologies 2 Understanding Cisco Collaboration Solutions 3 Managing Endpoints and Users 4 Mastering CUCM Call Control and Telephony Features 5 Dial Plans Basics to Advance 6 Media Resources Conferencing and AV Solutions 7 Exploring Cisco Collaboration Cloud Hybrid and Edge 8 Understanding Signaling and Media Protocols 9 Deep Dive Signaling and Media Protocols 10 Security Compliance and Recovery 11 Troubleshooting Techniques and Tools 12 Automation and APIs in Cisco Collaboration 13 Additional Resources and Emerging Trends Index

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