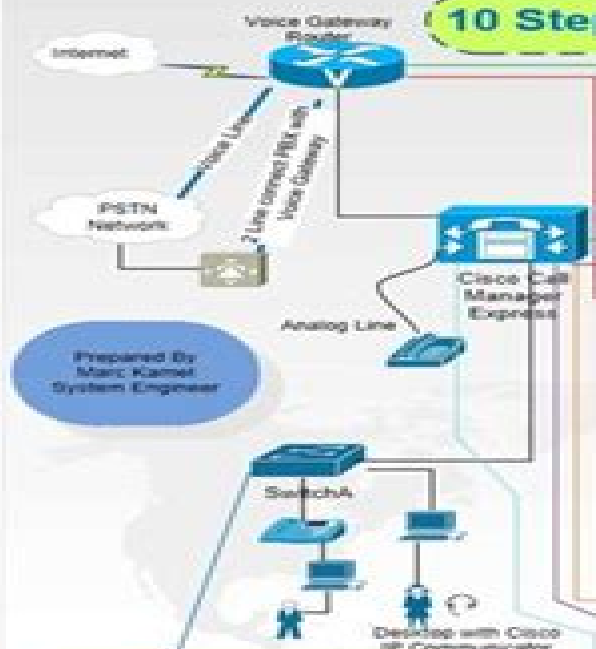


10 Step to configure Cisco Call Manager Express



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)# interface FastEthernet 0/1
Router(config-if)# ip address 172.16.1.2 255.255.255.0
Router(config-if)# no shutdown
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)# interface FastEthernet 0/3
Router(config-if)# ip address 172.16.1.4 255.255.255.0
Router(config-if)# no shutdown
Router(config)# interface FastEthernet 0/4
Router(config-if)# ip address 172.16.1.5 255.255.255.0
Router(config-if)# no shutdown
```

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

5

CONFIDENTIAL - SOURCE INFORMATION

Configuring Router-Based TFTP Services for IP Phone Firmware Files

[illegible]

Configuring the Cisco Unified CME System-Level Functions



```

Provisioning CME Phone and Directory Number Support
CME_Voiceconfig telephony-voice
CME_Voiceconfig telephony-voice appanimator 1
v1-32k Maximum phones to support
CME_Voiceconfig telephony-voice appanimator 248
CME_Voiceconfig telephony-voice appanimator 1
v1-32k Maximum directory numbers supported
exit
CME_Voiceconfig telephony-voice dm 48
Configuring CME for TFTP and TFTP Firmware Loads
CME_Voiceconfig tftp-server flash ipphone7905-7914supps79.8-3-3-27.sbin flash app79.8-3-3-27.sbin
CME_Voiceconfig tftp-server flash ipphone7905-7914supps79.8-3-3-27.sbin flash cma79.8-3-3-27.sbin
CME_Voiceconfig tftp-server flash ipphone7905-7914supps79.8-3-3-27.sbin flash cma79supps79.8-3-3-27.sbin
CME_Voiceconfig tftp-server flash ipphone7905-7914supps79.8-3-3-27.sbin flash dsp79.8-3-3-27.sbin
CME_Voiceconfig tftp-server flash ipphone7905-7914supps79.8-3-3-27.sbin flash jart79supps79.8-3-3-27.sbin
CME_Voiceconfig tftp-server flash ipphone7905-7914supps79.8-3-3-27.sbin flash jart79supps79.8-3-3-27.sbin
CME_Voiceconfig tftp-server flash ipphone7905-7914supps79.8-3-3-27.sbin flash jart79supps79.8-3-3-27.sbin
CME_Voiceconfig tftp-server flash ipphone7905-7914supps79.8-3-3-27.sbin flash jart79supps79.8-3-3-27.sbin
load 7976 SCCP79.8-3-3-33.loads
Updating CNF files
CNF files update complete
CME_Voiceconfig telephony-voice load 7976 SCCP79.8-3-3-33.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

10

```

CORE: [WARNING] hierarchy of create and files
Chf: The creation is already On
Unstoring Chf: Yes
Chf: Yes, update contents

```

Configuring a Switch Trunk Port

Two-Hit-A-Log-Reg-07-08	Two-Hit-A-Log-Reg-07-08	Two-Hit-A-Log-Reg-07-08	Two-Hit-A-Log-Reg-07-08
Two-Hit-A-Log-Reg-07-08	Two-Hit-A-Log-Reg-07-08	Two-Hit-A-Log-Reg-07-08	Two-Hit-A-Log-Reg-07-08

Countdown to 2011

[illegible]

Assigning SwitchPort to a VLAN

Switch-Adi configuration command
Switch-Adi configuration of interface Vlan100
Switch-Adi configuration of switchport mode access
Switch-Adi configuration of switchport access vlan 100
Access-Adi Mode and Class 10.4.10

Analysing Voice and Data WQANA

1. Berapa jumlah penduduk Indonesia?
 2. Berapa jumlah penduduk Indonesia pada tahun 2010?
 3. Berapa jumlah penduduk Indonesia pada tahun 2015?
 4. Berapa jumlah penduduk Indonesia pada tahun 2020?
 5. Berapa jumlah penduduk Indonesia pada tahun 2025?

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)# speed 1000000000
SwitchA(config-if)# shutdown
SwitchA#
```

Verifying Files Served by the CME TFTP Service

[illegible]

Cisco Unified Be 3000 Config Guide

Wallace



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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 **CCSP Complete Study Guide** Todd Lammle, Wade Edwards, Tom Lancaster, Justin Menga, Eric Quinn, Jason Rohm, Carl Timm, Bryant G. Tow, 2006-07-14 The Most Comprehensive and Current CCSP Self Study Solution on the Market Here s the comprehensive and economical self study solution that will provide you with the knowledge and skills needed to approach the CCSP exams with confidence This Study Guide was developed to meet the exacting requirements of today s certification candidates In addition to the consistent and accessible instructional approach that has earned Sybex the reputation as the leading publisher for certification study guides this book provides Clear and concise information on securing Cisco internetworks Practical examples and insights drawn from real world experience Leading edge exam preparation software including a testing engine and electronic flashcards And of course you ll find in depth coverage of all official objectives for all five exams required for the CCSP 642 501 Securing Cisco IOS Networks 642 511 Cisco Secure VPN 642 521 Cisco Secure PIX Firewall Advanced 642 531 Cisco Secure Intrusion Detection System 642 541 Cisco SAFE Implementation Note CD ROM DVD and other supplementary materials are not included as part of eBook file **CCSP: Secure Intrusion Detection and SAFE Implementation Study Guide** Justin Menga, Carl Timm, 2006-02-20 Here s the book you need to prepare for Cisco s Secure Intrusion Detection CSIDS and SAFE Implementation CSI exams This Study Guide was developed to meet the exacting requirements of today s certification candidates In addition to the focused and accessible instructional approach that has earned Sybex the Best Study Guide designation in the 2003 CertCities Readers Choice Awards this two in one Study Guide provides Focused coverage on working with a Cisco Intrusion Detection System and SAFE Implementation Practical examples and insights drawn from real world experience Leading edge exam preparation software including the Sybex testing engine and electronic flashcards for your Palm Authoritative coverage of all exam objectives including Secure Intrusion Detection Designing a Cisco IDS protection solution Installing and configuring a Cisco IDS Sensor Tuning and customizing signatures to work optimally in specific environments Performing device management of supported blocking devices Performing maintenance operations Monitoring a protection solution for small and medium networks Managing a large scale deployment of Cisco IDS Sensors SAFE Implementation Security Fundamentals Architectural Overview Cisco Security Portfolio SAFE Small Network Design SAFE Medium Network Design SAFE Remote User Network Implementation Note CD ROM DVD and other supplementary materials are not included as part of eBook file **Controller-Based Wireless LAN Fundamentals** Jeff Smith, Jake Woodhams, Robert Marg, 2010-10-29 Controller Based Wireless LAN Fundamentals An end to end reference guide to design deploy manage and secure 802 11 wireless networks As wired networks are increasingly replaced with 802 11n wireless connections enterprise users are shifting to centralized next

generation architectures built around Wireless LAN Controllers WLC These networks will increasingly run business critical voice data and video applications that once required wired Ethernet In Controller Based Wireless LAN Fundamentals three senior Cisco wireless experts bring together all the practical and conceptual knowledge professionals need to confidently design configure deploy manage and troubleshoot 802 11n networks with Cisco Unified Wireless Network CUWN technologies The authors first introduce the core principles components and advantages of next generation wireless networks built with Cisco offerings Drawing on their pioneering experience the authors present tips insights and best practices for network design and implementation as well as detailed configuration examples Next they illuminate key technologies ranging from WLCs to Lightweight Access Point Protocol LWAPP and Control and Provisioning of Wireless Access Points CAPWAP Fixed Mobile Convergence to WiFi Voice They also show how to take advantage of the CUWN s end to end security automatic configuration self healing and integrated management capabilities This book serves as a practical hands on reference for all network administrators designers and engineers through the entire project lifecycle and an authoritative learning tool for new wireless certification programs This is the only book that Fully covers the principles and components of next generation wireless networks built with Cisco WLCs and Cisco 802 11n AP Brings together real world tips insights and best practices for designing and implementing next generation wireless networks Presents start to finish configuration examples for common deployment scenarios Reflects the extensive first hand experience of Cisco experts Gain an operational and design level understanding of WLAN Controller WLC architectures related technologies and the problems they solve Understand 802 11n MIMO and protocols developed to support WLC architecture Use Cisco technologies to enhance wireless network reliability resilience and scalability while reducing operating expenses Safeguard your assets using Cisco Unified Wireless Network s advanced security features Design wireless networks capable of serving as an enterprise s primary or only access network and supporting advanced mobility services Utilize Cisco Wireless Control System WCS to plan deploy monitor troubleshoot and report on wireless networks throughout their lifecycles Configure Cisco wireless LANs for multicasting Quickly troubleshoot problems with Cisco controller based wireless LANs This book is part of the Cisco Press Fundamentals Series Books in this series introduce networking professionals to new networking technologies covering network topologies sample deployment concepts protocols and management techniques Category Wireless Covers Cisco Controller Based Wireless LANs

CCSP: Secure PIX and Secure VPN Study Guide Wade Edwards, Tom Lancaster, Eric Quinn, Jason Rohm, Bryant G. Tow, 2004-01-13 Here s the book you need to prepare for Cisco s Secure PIX Firewall CSPFA and Secure VPN CSVN exams This two in one Study Guide provides In depth coverage of all exam topics Practical information on implementing Cisco s Secure PIX and Secure VPN technologies Hundreds of challenging review questions Leading edge exam preparation software including a test engine and electronic flashcards Authoritative coverage of all exam objectives including Secure PIX Firewall Translations and Connections Access Control Lists and Content Filtering Object

Grouping Advanced Protocol Handling Attack Guards Intrusion Detection and Shunning Authentication Authorization and Accounting Failover Cisco PIX Device Manager Enterprise PIX Firewall Management and Maintenance Firewall Services Module Secure VPN VPN and IPSec Technology Overview VPN 3000 Concentrator Series Hardware Remote Access with Pre shared Keys and Digital Certificates IPSec Software Client Firewalls Software Client Auto Initiation Hardware Client Configuration Network Client Backup and Load Balancing Software Auto Update Configuring for the IPSec Over UDP and IPSec Over TCP LAN to LAN with Pre Shared Keys NAT and Digital Certificates Note CD ROM DVD and other supplementary materials are not included as part of eBook file

Cisco Unity Fundamentals Brian Morgan, Moises Gonzalez, 2004-07-06 A comprehensive introduction to deploying configuring and maintaining Cisco Unity Discover the various Cisco Unity integration and deployment solutions as well as the environmental differences between PBX and IP telephony based telephone systems Learn the pitfalls of existing systems integration and how to avoid downtime Maintain a Cisco unified messaging solution by using the book's examples including setups additions message sourcing applications and error reporting Perform the proper installation upgrade and back up of Cisco Unity systems Monitor performance and troubleshoot a Cisco Unity system using the proper tools and utilities that help you ensure high availability Choose the proper Cisco Unity networking features to deliver messages to other voice messaging systems Cisco Unity is the official unified messaging solution for the Cisco Architecture for Voice Video and Integrated Data AVVID and complements the full range of Cisco IP based voice solutions including Cisco CallManager and Cisco Personal Assistant Cisco Unity Fundamentals provides design and administration goals for migrating from PBX to Cisco IP Telephony as well as working in a mixed PBX Cisco IP Telephony environment You will learn about the transition from the traditional model with separate architectures for voice mail and e mail systems to supporting unified messaging e mail voice and fax messages delivered to a single inbox You will also discover common troubleshooting solutions such as performance monitoring and the importance of data collection for predicting future system requirements Cisco Unity Fundamentals begins by introducing the engineering aspects of Cisco Unity and then moves quickly into the hardware and software platforms Part I focuses on the administration of Cisco Unity describing the features general setup and global settings Part II describes installation and discusses various types of integration with Cisco CallManager and other telephone systems including Session Initiation Protocol SIP proxy Part II also delves into networking with other voice messaging systems After reading Cisco Unity Fundamentals you will understand the system configuration and on going maintenance issues associated with a successful Cisco Unity deployment This book is part of the Cisco Press Fundamentals Series Books in this series introduce networking professionals to new networking technologies covering network topologies example deployment concepts protocols and management techniques

Cisco A Beginner's Guide, Fifth Edition Toby Velte, Anthony Velte, 2013-09-05 Cisco networking essentials made easy Get a solid foundation in Cisco products and technologies from this fully updated bestseller Covering the latest solutions Cisco A Beginner's Guide Fifth

Edition shows you step by step how to design build and manage custom networks Learn how to configure hardware use IOS commands set up wireless networks and secure your systems You ll also get tips on preparing for Cisco certification exams Brand new voice and social networking features Cisco TelePresence the cloud based Cisco Unified Computing System and more are fully covered in this practical resource Understand Cisco networking and Internet basics Connect and configure routers and switches Work with TCP IP Wi Fi and Ethernet technologies Maintain your network through IOS and IOS XR Handle security using firewalls Adaptive Security Appliances SecureX TrustSec and other tools Virtualize hardware and migrate resources to a private cloud Manage wireless networks with Aironet and Airespace Deliver VoIP video and social networking services Design administer and tune a Cisco enterprise network Identify and repair performance issues and bottlenecks

Handbook of Fiber Optic Data Communication Casimer DeCusatis, 2013-08-09 The 4th edition of this popular Handbook continues to provide an easy to use guide to the many exciting new developments in the field of optical fiber data communications With 90% new content this edition contains all new material describing the transformation of the modern data communications network both within the data center and over extended distances between data centers along with best practices for the design of highly virtualized converged energy efficient secure and flattened network infrastructures Key topics include networks for cloud computing software defined networking integrated and embedded networking appliances and low latency networks for financial trading or other time sensitive applications Network architectures from the leading vendors are outlined including Smart Analytic Solutions Qfabric FabricPath and Exadata as well as the latest revisions to industry standards for interoperable networks including lossless Ethernet 16G Fiber Channel RoCE FCoE TRILL IEEE 802 1Qbg and more Written by experts from IBM HP Dell Cisco Ciena and Sun Oracle Case studies and How to demonstrations on a wide range of topics including Optical Ethernet next generation Internet RDMA and Fiber Channel over Ethernet Quick reference tables of all the key optical network parameters for protocols like ESCON FICON and SONET ATM and a glossary of technical terms and acronyms

CCNP Todd Lammle, Ward Spangenberg, Robert Padjen, 1999 The CCNP Cisco LAN Switch Configuration Study Guide is the most affordable effective way to prepare for the CLSC Exam 640 404 Book jacket

Network World, 1999-05-24 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce

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 **International**

Directory of Behavior and Design Research ,1974 **Army and Navy Journal** ,1948 *Implementing Cisco Collaboration Applications (CAPPS) Foundation Learning Guide (CCNP Collaboration Exam 300-085 CAPPS)* Chris Olsen,2015-12-22 Now fully updated for the new Cisco CAPPS 300 085 exam *Implementing Cisco Collaboration Applications CAPPS 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 designing deploying configuring and troubleshooting Cisco Collaboration and Unified Communications applications devices and networks Author Chris Olsen shows how to effectively use Cisco Unity Connection Cisco Unity Express Cisco Instant Message and Presence Cisco TelePresence Video Communication Server and Cisco TelePresence Management Suite in production environments He begins by introducing the

server platforms and overlays that are the basis for all Cisco Unity Connection design and integration Next he presents in depth coverage of a wide range of essential tasks from user configuration to voicemail redundancy configuring Cisco Jabber Mobile to provisioning Cisco Prime Collaboration Each chapter opens with a list of topics that clearly identifies its focus Each chapter ends with a summary of key concepts for quick study as well as review questions to assess and reinforce your understanding Throughout configuration examples and sample verification outputs illustrate critical issues in network operation and troubleshooting Whether you are preparing for the CCNP Collaboration certification exams or you are just interested in learning about how to deploy and operate Cisco collaboration applications you will find this book to be an invaluable resource Shows how to integrate Cisco Unity Connection with Cisco Unified Communications Manager or other PBXs Covers configuring Cisco Unity Connection users templates service classes distribution lists security LDAP dial plans and call management Walks through Unified Messaging single Inbox configuration Shows how to design integrate and configure feature rich branch office messaging solutions with Cisco Unity Express Explains Cisco Unified IM and Presence components design integration deployment and feature configuration Covers Cisco Jabber and Cisco Jabber Mobile configuration Guides you through deploying Cisco Collaboration Systems Applications with Cisco Prime Collaboration Introduces Cisco TelePresence Management Suite Cisco TMS capabilities and scheduling options This book is in the Foundation Learning Guide Series 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 *Implementing Cisco Collaboration Applications (CAPPS) Foundation Learning Guide* Chris Olsen,2016 **Cisco 3640 Router Installation and Configuration Guide** ,1996 *Cisco Unity Connection* David Schulz,2011-06-17 Cisco Unity Connection The comprehensive guide to Cisco Unity Connection voice messaging system design implementation and troubleshooting David Schulz Cisco Unity Connection presents all the concepts and techniques you need to successfully plan design implement and maintain Cisco Unity Connection voice messaging systems For every stage of the system lifecycle enterprise voice expert David Schulz offers clear explanations practical examples realistic case studies and best practice solutions The author begins by introducing Cisco Unity Connection s core features capabilities and components Next he provides thorough step by step coverage of configuration including users contacts call routing dial plans class of service and templates You will find extensive discussions of user features and access administration and maintenance redundancy and backup and much more Throughout the author addresses many enhancements introduced in the new Cisco Unity Connection v8 5 software This book concludes with a complete guide to troubleshooting including case studies that identify common deployment challenges and help you build real world problem solving skills **Cisco Router Configuration Handbook** David Hucaby,Stephen McQuerry,Andrew Whitaker,2010-06-30 Fast answers and reliable solutions for all widely used Cisco router features all in one time saving guide Organized for maximum efficiency describes actual commands and options in the

sequence they should be used Helps network pros eliminate time consuming documentation searches Extensive updates IPv6 MPLS AutoQoS SIP MGCP voice troubleshooting VPNs security and more At a glance illustrations offer fast answers and easy double checking Locating reliable Cisco router configuration command information can require extensive time consuming research Cisco Router Configuration Handbook 2 e is the solution a day to day reference to the most widely used Cisco router features and configurations Straight from Cisco experts it covers every facet of router configuration including fundamentals network protocols packet processing voice telephony security and more This book is organized for maximum efficiency Related features are covered together and features and options are covered in the sequence in which they are typically used Shaded tabs mark each section for quick reference Information on each feature technology or protocol is presented in a concise one or two page format with sections presenting quick facts configuration information and step by step examples including both required and optional commands Simply put this book brings together all the Cisco routing configuration information most network professionals will ever need and organizes it more efficiently than any other resource

Implementing Cisco Unified Communications Manager, Part 1 (CIPT1) Foundation Learning Guide Joshua Samuel Finke, Dennis Hartmann, 2011-08-09 Implementing Cisco Unified Communications Manager Part 1 CIPT1 Foundation Learning Guide Second Edition Josh Finke CCIE No 25707 Dennis Hartmann CCIE No 15651 Foundation Learning for the CCNP Voice CIPT1 642 447 exam Implementing Cisco Unified Communications Manager Part 1 CIPT1 Second Edition is a Cisco authorized self paced learning tool for CCNP Voice foundation learning This book provides the knowledge necessary to implement a Cisco Unified Communications Manager CUCM solution at a single site environment By reading this book you will learn how to perform post installation tasks configure CUCM implement Media Gateway Control Protocol MGCP and H 323 gateways and build dial plans to place On Net and Off Net phone calls You will also implement media resources IP Phone Services Cisco Unified Communications Manager native presence and Cisco Unified Mobility This book focuses primarily on CUCM version 8 x which is the call routing and signaling component for the Cisco Unified Communications solution This book has been fully updated with new coverage of CUCM phone services Cisco Unified Manager Assistant Cisco Unified Mobility and H 323 gateways Whether you are preparing for CCNP Voice 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 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 n Understand Cisco Unified Communications Manager architecture and components n Evaluate CUCM deployment models n Set up and configure CUCM services n Implement and harden IP phones n Manage user accounts n Configure Catalyst

switches for power over Ethernet and voice VLAN requirements n Deploy MGCP and H 323 gateways n Configure call routing and digit manipulation n Set up calling privileges and call coverage n Deploy various media resources features and applications n Establish Presence enabled speed dials and lists n Implement Cisco Unified Manager Assistant and Cisco Unified Mobile 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 **Authorized Self-Study Guide Cisco Voice Over IP: (642-436)** Wallace,2008-09

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