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**KEY=CIPTV2 - ANASTASIA SANCHEZ**

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**IMPLEMENTING CISCO IP TELEPHONY AND VIDEO, PART 1 (CIPTV1) FOUNDATION LEARNING GUIDE (CCNP COLLABORATION EXAM 300-070 CIPTV1)**

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**IMPL CISC IP TELE VIDE EPUB\_3**

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*Cisco Press* Now fully updated for Cisco's new CIPTV1 300-070 exam **Implementing Cisco IP Telephony and Video, Part 1(CIPTV1) Foundation Learning Guide** is your Cisco® authorized learning tool for CCNP® Collaboration preparation. Part of the Cisco Press Foundation Learning Series, it teaches essential knowledge and skills for building and maintaining a robust and scalable Cisco Collaboration solution. The authors focus on deploying the Cisco Unified Communications Manager (CUCM), CUCM features, CUCM based call routing, Cisco IOS Voice Gateways, Cisco Unified Border Element (CUBE), and Quality of Service (QoS). They introduce each key challenge associated with configuring CUCM, implementing gateways and CUBE, and building dial plans to place on-net and off-net calls using traditional numbered dial plans and Uniform Resource Identifiers (URIs). They show how to implement conferencing and other media resources, and prepare you to apply QoS features for voice and video. 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 Cisco best practices, and illustrate operations and problem solving via realistic examples. This guide is ideal for all certification candidates who want to master all the topics covered on the CIPTV1 300-070 exam. The official book for Cisco Networking Academy's new CCNP CIPTV1 course includes all new Learning@ Cisco CIPTV1 e-Learning course content: Covers CUCM architecture, deployment models, and tradeoffs Walks through bringing CUCM online, deploying endpoints, and setting up users Explains how to create a solid IP Phone foundation for advanced services Covers dial plan elements, design, and implementation Reviews key call routing elements Explains digit manipulation Shows how to control user access Discusses audio/video resources and videoconferencing Covers QoS tools and preferential call handling Explains external connections via Cisco IOS Voice Gateways and CUBE Streamlines review with clear summaries, assessment questions, and objectives

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**IMPLEMENTING CISCO IP TELEPHONY AND VIDEO**

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*Createspace Independent Publishing Platform* This guide only contains practice questions and answers for the **Implementing Cisco IP Telephony and Video, Part 1 & 2 exam**.

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**IMPLEMENTING CISCO IP TELEPHONY AND VIDEO, PART 1 (CIPTV1) FOUNDATION LEARNING GUIDE, THIRD EDITION**

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**IMPLEMENTING CISCO IP TELEPHONY AND VIDEO, PART 1 (CIPTV1) FOUNDATION LEARNING GUIDE, THIRD EDITION**

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Now fully updated for Cisco's new CIPTV1 300-070 exam **Implementing Cisco IP Telephony and Video, Part 1(CIPTV1) Foundation Learning Guide** is your Cisco® authorized learning tool for CCNP® Collaboration preparation. Part of the Cisco Press Foundation Learning Series, it teaches essential knowledge and skills for building and maintaining a robust

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### **IMPLEMENTING CISCO IP TELEPHONY AND VIDEO, PART 2 (CIPTV2) FOUNDATION LEARNING GUIDE (CCNP COLLABORATION EXAM 300-075 CIPTV2)**

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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 Demons...

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### **IMPLEMENTING CISCO IP TELEPHONY AND VIDEO, PART 2 (CIPTV2) FOUNDATION LEARNING GUIDE (CCNP COLLABORATION EXAM 300-075 CIPTV2), THIRD EDITION**

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### **IMPLEMENTING CISCO IP TELEPHONY AND VIDEO, PART 1 (CIPTV1) FOUNDATION LEARNING GUIDE (CCNP COLLABORATION EXAM 300-070 CIPTV1)**

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*Cisco Press* Now fully updated for Cisco's new CIPTV1 300-070 exam **Implementing Cisco IP Telephony and Video, Part 1 (CIPTV1) Foundation Learning Guide** is your Cisco® authorized learning tool for CCNP® Collaboration preparation. Part of the Cisco Press Foundation Learning Series, it teaches essential knowledge and skills for building and maintaining a robust and scalable Cisco Collaboration solution. The authors focus on deploying the Cisco Unified Communications Manager (CUCM), CUCM features, CUCM based call routing, Cisco IOS Voice Gateways, Cisco Unified Border Element (CUBE), and Quality of Service (QoS). They introduce each key challenge associated with configuring CUCM, implementing gateways and CUBE, and building dial plans to place on-net and off-net calls using traditional numbered dial plans and Uniform Resource Identifiers (URIs). They show how to implement conferencing and other media resources, and prepare you to apply QoS features for voice and video. 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 Cisco best practices, and illustrate operations and problem solving via realistic examples. This guide is ideal for all certification candidates who want to master all the topics covered on the CIPTV1 300-070 exam. The official book for Cisco Networking Academy's new CCNP CIPTV1 course includes all new Learning@ Cisco CIPTV1 e-Learning course content: Covers CUCM architecture, deployment models, and tradeoffs Walks through bringing CUCM online, deploying endpoints, and setting up users Explains how to create a solid IP Phone foundation for advanced services Covers dial plan elements, design, and implementation Reviews key call routing elements Explains digit manipulation Shows how to control user access Discusses audio/video resources and videoconferencing Covers QoS tools and preferential call handling Explains external connections via Cisco IOS Voice Gateways and CUBE Streamlines review with clear summaries, assessment questions, and objectives

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### **IMPLEMENTING CISCO IP TELEPHONY AND VIDEO, PART 2 (CIPTV2) FOUNDATION LEARNING GUIDE (CCNP COLLABORATION EXAM 300-075 CIPTV2)**

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*Cisco Press* 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

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### **IMPLEMENTING CISCO UNIFIED COMMUNICATIONS MANAGER, PART 1 (CIPT1) (AUTHORIZED SELF-STUDY GUIDE)**

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*Pearson Education* 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 Advantage 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](http://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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## **CVOICE 8.0**

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### **IMPLEMENTING CISCO UNIFIED COMMUNICATIONS VOICE OVER IP AND QOS V8.0 (EXAM 642-437)**

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*John Wiley & Sons*

### **IMPLEMENTING CISCO IP TELEPHONY AND VIDEO, PART 2 (CIPTV2) FOUNDATION LEARNING GUIDE (CCNP COLLABORATION EXAM 300-075 CIPTV2)**

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#### **IMPL CISC IP TELE VID EPUB\_3**

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*Cisco Press* 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

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### **IMPLEMENTING CISCO UNIFIED COMMUNICATIONS VOICE OVER IP AND QOS (CVOICE) FOUNDATION LEARNING GUIDE**

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#### **(CCNP VOICE CVOICE 642-437)**

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*Cisco Press* **Implementing Cisco Unified Communications Voice over IP and QoS (CVOICE) Foundation Learning Guide** Foundation Learning for the CCNP® Voice (CVOICE) 642-437 Exam Kevin Wallace, CCIE® No. 7945 **Implementing Cisco Unified Communications Voice over IP and QoS (CVOICE) Foundation Learning Guide** is a Cisco®-authorized, self-paced

learning tool for CCNP Voice foundation learning. Developed in conjunction with the Cisco CCNP Voice certification team, it covers all aspects of planning, designing, and deploying Cisco VoIP networks and integrating gateways, gatekeepers, and QoS into them. Updated throughout for the new CCNP Voice (CVOICE) Version 8.0 exam (642-437), this guide teaches you how to implement and operate gateways, gatekeepers, Cisco Unified Border Element, Cisco Unified Communications Manager Express, and QoS in a voice network architecture. Coverage includes voice gateways, characteristics of VoIP call legs, dial plans and their implementation, basic implementation of IP phones in Cisco Unified Communications Manager Express environment, and essential information about gatekeepers and Cisco Unified Border Element. The book also provides information on voice-related QoS mechanisms that are required in Cisco Unified Communications networks. Fourteen video lab demonstrations on the accompanying CD-ROM walk you step by step through configuring DHCP servers, CUCME autoregistration, ISDN PRI circuits, PSTN dial plans, DID, H.323 and MGCP gateways, VoIP dial peering, gatekeepers, COR, AutoQoS VoIP, and much more. Whether you are preparing for CCNP Voice certification or simply want to gain a better understanding of VoIP and QoS, you will benefit from the foundation information presented in this book. - Voice gateways, including operational modes, functions, related call leg types, and routing techniques - Gateway connections to traditional voice circuits via analog and digital interfaces - Basic VoIP configuration, including A/D conversion, encoding, packetization, gateway protocols, dial peers, and transmission of DTMF, fax, and modem tones - Supporting Cisco IP Phones with Cisco Unified Communications Manager Express - Dial plans, including digit manipulation, path selection, calling privileges, and more - Gatekeepers, Cisco Unified Border Elements, and call admission control (CAC) configuration - QoS issues and mechanisms - Unique DiffServ QoS characteristics and mechanisms - Cisco AutoQoS configuration and operation Companion CD-ROM The CD-ROM that accompanies this book contains 14 video lab demonstrations running approximately 90 minutes. 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.

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## **IMPLEMENTING CISCO UNIFIED COMMUNICATIONS MANAGER, PART 1 (CIPT1) FOUNDATION LEARNING GUIDE**

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### **(CCNP VOICE CIPT1 642-447)**

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*Cisco Press* **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](http://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.

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## **SECURING CISCO IP TELEPHONY NETWORKS**

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*Cisco Press* **The real-world guide to securing Cisco-based IP telephony applications, devices, and networks** Cisco IP telephony leverages converged networks to dramatically reduce TCO and improve ROI. However, its critical importance to business communications and deep integration with enterprise IP networks make it susceptible to attacks that legacy telecom systems did not face. Now, there's a comprehensive guide to securing the IP telephony components that ride atop data network infrastructures—and thereby providing IP telephony services that are safer, more resilient, more stable, and more scalable. **Securing Cisco IP Telephony Networks** provides comprehensive, up-to-date details for securing Cisco IP telephony equipment, underlying infrastructure, and telephony applications. Drawing on ten years of experience, senior network consultant Akhil Behl offers a complete security framework for use in any Cisco IP telephony environment. You'll find best practices and detailed configuration examples for securing Cisco Unified Communications Manager (CUCM), Cisco Unity/Unity Connection, Cisco Unified Presence, Cisco Voice Gateways, Cisco IP Telephony Endpoints, and many other Cisco IP Telephony applications. The book showcases easy-to-follow Cisco IP

Telephony applications and network security-centric examples in every chapter. This guide is invaluable to every technical professional and IT decision-maker concerned with securing Cisco IP telephony networks, including network engineers, administrators, architects, managers, security analysts, IT directors, and consultants. Recognize vulnerabilities caused by IP network integration, as well as VoIP's unique security requirements Discover how hackers target IP telephony networks and proactively protect against each facet of their attacks Implement a flexible, proven methodology for end-to-end Cisco IP Telephony security Use a layered (defense-in-depth) approach that builds on underlying network security design Secure CUCM, Cisco Unity/Unity Connection, CUPS, CUCM Express, and Cisco Unity Express platforms against internal and external threats Establish physical security, Layer 2 and Layer 3 security, and Cisco ASA-based perimeter security Complete coverage of Cisco IP Telephony encryption and authentication fundamentals Configure Cisco IOS Voice Gateways to help prevent toll fraud and deter attacks Secure Cisco Voice Gatekeepers and Cisco Unified Border Element (CUBE) against rogue endpoints and other attack vectors Secure Cisco IP telephony endpoints-Cisco Unified IP Phones (wired, wireless, and soft phone) from malicious insiders and external threats 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.

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## **IMPLEMENTING CISCO COLLABORATION APPLICATIONS (CAPPS) FOUNDATION LEARNING GUIDE (CCNP COLLABORATION EXAM 300-085 CAPPS)**

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*Cisco Press* 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.

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## **IMPLEMENTING CISCO UNIFIED COMMUNICATIONS VOICE OVER IP AND QOS (CVOICE) FOUNDATION LEARNING GUIDE**

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*Cisco Press* Cisco's authorized foundation learning self-study guide for the new CCNP CVOICE exam. \*\*Developed in conjunction with the Cisco certification team, the developers of the newest CCNP Voice exam and courses. \*Fully covers planning, designing, and deploying Cisco VoIP networks, and integrating gateways, gatekeepers, and QoS into them. \*Includes extensive new coverage of QoS Contains many self-assessment review questions and configuration examples. This is Cisco's authorized, self-paced, foundation learning tool for the latest version of the Cisco Voice over IP (CVOICE) exam, required for the new CCNP Voice certification. It covers all the knowledge and skills needed to plan, design, and deploy Cisco voice-over-IP (VoIP) networks, and to integrate gateways, gatekeepers, and QoS into enterprise VoIP networks. As an Authorized Self-Study Guide, it fully reflects the content of the newest version of the Cisco CVOICE course. Each chapter ends with questions designed to help readers assess their understanding as they prepare for the exam. This edition has been reorganized for greater effectiveness, offers deeper coverage of key CVOICE exam topics, and eliminates older material that has been removed from the exam. Three new chapters have been added to cover: \*\*Supporting Cisco IP Phones with Cisco Unified Communications Manager Express. \*Quality of Service (QoS) fundamentals. \*Configuring QoS Mechanisms.

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## **CONFIGURING CISCO UNIFIED COMMUNICATIONS MANAGER AND UNITY CONNECTION**

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### **A STEP-BY-STEP GUIDE**

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*Cisco Press* 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.

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## IMPLEMENTING CISCO IP ROUTING (ROUTE) FOUNDATION LEARNING GUIDE

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### (CCNP ROUTE 300-101)

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*Pearson Education* Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide is a Cisco authorized, self-paced learning tool for CCNP preparation. This book teaches readers how to design, configure, maintain, and scale routed networks that are growing in size and complexity. The book covers all routing principles covered in the CCNP Implementing Cisco IP Routing course. As part of the Cisco Press Self-Study series, Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide provides comprehensive foundation learning for the CCNP ROUTE exam. This revision to the popular Foundation Learning Guide format for Advanced Routing at the Professional level is fully updated to include complete coverage of all routing topics covered in the new Implementing Cisco IP Routing (ROUTE) course. The proposed book is an intermediate-level text, which assumes that readers have been exposed to beginner-level networking concepts contained in the CCNA (ICND1 and ICND2) certification curriculum. No previous exposure to the CCNP level subject matter is required, so the book provides a great deal of detail on the topics covered. Each chapter opens with a list of objectives to help focus the reader's study. Configuration exercises at the end of each chapter and a master lab exercise that ties all the topics together in the last chapter help illuminate theoretical concepts. Key terms will be highlighted and defined throughout. Each chapter will conclude with a summary to help review key concepts, as well as review questions to reinforce the reader's understanding of what was covered.

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## IMPLEMENTING CISCO IP ROUTING (ROUTE) FOUNDATION LEARNING GUIDE

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### FOUNDATION LEARNING FOR THE ROUTE 642-902 EXAM

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*Pearson Education* Foundational, authorized learning for the brand-new CCNP Implementing Cisco IP Routing (ROUTE) exam from Cisco! \*The only Cisco authorized foundational self-study book for the new CCNP ROUTE exam: developed with Learning@Cisco, designers of the exam and its companion course. \*Includes review questions, chapter objectives, summaries, definitions, case studies, job aids, and command summaries. \*Thoroughly introduces routed network construction, support, and scalability. CCNP Authorized Self-Study Guide: Implementing Cisco IP Routing (ROUTE) is the only Cisco authorized, self-paced foundational learning tool designed to help network professionals prepare for the brand new CCNP ROUTE exam from Cisco. This book covers all CCNP ROUTE exam objectives for mastering routed network construction, support, and scalability, including: \*Assessing complex enterprise network requirements and planning routing services. \*Applying standards, models and best practices to complex networks. \*Creating and documenting routing implementation plans. \*Planning, configuring, verifying, and troubleshooting EIGRP solutions. \*Implementing scalable OSPF multiarea network solutions. \*Implementing IPv4 based redistribution. \*Assessing, controlling, configuring, and verifying path control. As part of the Cisco Press Self-Study series, this revision to the popular Authorized Self-Study Guide to advanced routing has been fully updated to provide early and comprehensive foundational learning for the new CCNP ROUTE course. This text assumes that readers have been exposed to concepts covered by CCNA (ICND1 and ICND2), but does not assume any prior knowledge of CCNP concepts.

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## CCNA VOICE OFFICIAL EXAM CERTIFICATION GUIDE (640-460 IUC)

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*Pearson Education* Master IUC 640-460 exam topics with the official study guide Assess your knowledge with chapter-

opening quizzes Review key concepts with Exam Preparation Tasks CCNA Voice Official Exam Certification Guide is a best of breed Cisco exam study guide that focuses specifically on the objectives for the CCNA Voice IIUC 640-460 exam. Senior voice instructors and network engineers Jeremy Cioara, Michael Cavanaugh, and Kris Krake share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. CCNA Voice Official Exam Certification Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks sections help drill you on key concepts you must know thoroughly. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. CCNA Voice Official Exam Certification Guide 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](http://www.cisco.com/go/authorizedtraining). The official study guide helps you master all the topics on the IIUC exam, including Connecting IP phones to the LAN infrastructure Cisco Unified CME installation Cisco Unified CME IP phone configuration Cisco Unified CME voice productivity features Gateway and trunk concepts and configuration Cisco Unity Express concepts and configuration Smart Business Communications System Configuring and maintaining the UC500 for voice

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### CCIE COLLABORATION QUICK REFERENCE

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*Pearson Education* CCIE Collaboration Quick Reference provides you with detailed information, highlighting the key topics on the latest CCIE Collaboration v1.0 exam. This fact-filled Quick Reference allows you to get all-important information at a glance, helping you to focus your study on areas of weakness and to enhance memory retention of important concepts. With this book as your guide, you will review and reinforce your knowledge of and experience with collaboration solutions integration and operation, configuration, and troubleshooting in complex networks. You will also review the challenges of video, mobility, and presence as the foundation for workplace collaboration solutions. Topics covered include Cisco collaboration infrastructure, telephony standards and protocols, Cisco Unified Communications Manager (CUCM), Cisco IOS UC applications and features, Quality of Service and Security in Cisco collaboration solutions, Cisco Unity Connection, Cisco Unified Contact Center Express, and Cisco Unified IM and Presence. This book provides a comprehensive final review for candidates taking the CCIE Collaboration v1.0 exam. It steps through exam objectives one-by-one, providing concise and accurate review for all topics. Using this book, exam candidates will be able to easily and effectively review test objectives without having to wade through numerous books and documents for relevant content for final review.

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### CCNA VOICE 640-461 OFFICIAL CERT GUIDE

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*Cisco Press* The official, comprehensive assessment, review, and practice guide for Cisco's latest CCNA Voice exam -- direct from Cisco \*\*Contains 80% new content, reflecting the exam's expansion to cover Cisco Unified Communications Manager (CUCM), CUCM Express, Unity Connection, Unified Presence, and network infrastructure. \*Includes realistic exam questions on CD. \*Contains extensive, proven features to help students review efficiently and remember the most important details. This is Cisco's official, comprehensive self-study resource for preparing for the new ICOMM exam - the only exam needed to gain CCNA Voice certification, now an essential prerequisite for CCNP Voice certification. Top Cisco instructor Jeremy D. Cioara presents every objective concisely and logically, with extensive teaching features that promote retention and understanding. Readers will find: \*\*Pre-chapter quizzes to assess knowledge upfront and focus study more efficiently. \*Foundation topics sections that explain concepts and configurations, and link theory to actual configuration commands. \*Key topics sections calling attention to every figure, table, and list that candidates must know. \*Exam Preparation sections. \*Exam-realistic questions on CD About 80% of this edition's content is brand-new, reflecting the new exam's massive revision, reorganization, and expansion. In addition to Cisco CallManager Express, this book now covers Cisco Unified Communications Manager (CUCM), CUCM Express, Unity Connection, Unified Presence, and network infrastructure considerations. Specific topics added in this edition include: \*\*CUCM/CUCM Express administration. \*Managing endpoints and end-users with CUCM. \*CUCM dial plan management. \*CUCM/CUCM Express mobility features. \*Voicemail integration with Unity Connection. \*Unified Presence support. \*Network infrastructure management/troubleshooting. \*Unity Connection management/troubleshooting

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### IMPLEMENTING CISCO IP SWITCHED NETWORKS (SWITCH) FOUNDATION LEARNING GUIDE

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*Pearson Education* "Foundation learning for SWITCH 642-813"--P. 1, cover.

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### CISCO VOICE OVER FRAME RELAY, ATM, AND IP

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*Cisco Press* Authorized self-study guide for voice over data network foundation learning This book will help you to: Configure Voice over Frame Relay, ATM, or IP using Cisco IOS(r) software Analyze existing voice hardware/software, and select the Cisco multiservice access devices that best serve your needs Analyze existing branch and regional office voice networks and services, and choose the optimum transmission method for voice traffic: Frame Relay, ATM, or IP Learn the fundamentals of VoFR, VoATM, and VoIP standards, protocols, and the Cisco hardware that supports these



services Learn the basics of the Architecture for Voice, Video, and Integrated Data (AVVID) including CallManager, Cisco IP Phones, and related voice gateway equipment Design, configure, integrate, and optimize an enterprise network in remote branch and regional offices by using integrated access technology that combines voice and data transmission over Frame Relay, ATM, and IP connections, access devices, and CIPT client hardware Learn the fundamentals of PBXs, and apply the principles and concepts to develop a process for integrating Cisco equipment with PBXs and for replacing PBXs Cisco Voice over Frame Relay, ATM, and IP teaches you the Cisco solutions for voice technology (VoIP, VoFR, VoATM). This complete solutions guide helps you analyze existing voice hardware and software and select the Cisco multiservice access devices that best serve the needs of your network environment. In addition to learning how to design, configure, integrate, and optimize networks in remote branch and regional offices, this book also provides you with a fundamental understanding of PBXs, enabling you to develop a process for integrating Cisco equipment with or replacing PBXs. Cisco Voice over Frame Relay, ATM, and IP prepares you for voice and data integration by teaching you how to install and configure Cisco voice and data network routers; how to configure Cisco voice-enabled equipment for Voice over Frame Relay, ATM, and IP; how to configure voice ports, dial peers, and special commands to enable voice transmission over a data network; and how to perform voice traffic analysis to determine how to improve the quality of service (QoS) for delay-sensitive voice traffic. This book features actual router output and configuration examples to aid in the discussion of the configuration of these technologies. At the end of each chapter your comprehension is tested by review questions. Cisco Voice over Frame Relay, ATM, and IP has all of the tools you need to vastly improve your understanding of the Cisco solution to voice networking needs. Cisco Voice over Frame Relay, ATM, and IP is part of a recommended self-study program from Cisco Systems(r) 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, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining). This volume is in the Certification Self-Study Series offered by Cisco Press(r). 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.

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## CONFIGURING CISCO VOICE OVER IP 2E

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*Elsevier* **Configuring Cisco Voice Over IP, Second Edition** provides network administrators with a thorough understanding of Cisco's current voice solutions. This book is organized around the configuration of all of Cisco's core VoIP products, including Cisco CallManager software, Cisco 7910 series of phones, and server-based IP PBXs. In addition, AVVID coverage has been added. An update to a bestselling title in a growth market. Continued competitive pressure on ISPs to deliver VoIP will create strong demand information on topic Voice Over IP is expected to make great inroads in 2002. Voice-over-IP got its start at the time of the first edition of the book; it is now real and more companies are adopting it since IT managers have become less skeptical of IP telephony's reliability and more aware of the potential cost savings and application benefits of a converged network. Voip wares now promise easier quality-of-service (QoS) deployment, and a multitude of new IP phones and conferencing stations for corporations. Cisco and IBM recently announced a package deal that could help businesses quickly roll out IP voice in a small or midsize office. Since getting into the IP telephony market two years ago, Cisco has seen quick success in selling its voice-over-IP products into its vast installed base of IP LAN equipment customers. The firm was the top vendor of IP phones in the first quarter of this year and second in IP PBX system shipments (behind 3Com), according to Cahners In-Stat.

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## CISCO TELEPRESENCE FUNDAMENTALS

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*Cisco Press* **Cisco TelePresence™ Systems (CTS)** create live, face-to-face meeting experiences, providing a breakthrough virtual conferencing and collaboration experience that transcends anything previously achievable by videoconferencing. Although the business case for deploying CTS is compelling, implementing it requires advanced knowledge of the latest networking technologies, an attention to detail, and thorough planning. In this book, four leading CTS technical experts cover everything you need to know to successfully design and deploy CTS in your environment. The authors cover every element of a working CTS solution: video, audio, signaling protocols and call processing, LAN and WAN design, multipoint, security, inter-company connectivity, and much more. They deliver start-to-finish coverage of CTS design for superior availability, QoS support, and security in converged networks. They also present the first chapter-length design guide of its kind detailing the room requirements and recommendations for lighting, acoustics, and ambience within various types of TelePresence rooms. **Cisco Telepresence Fundamentals** is an indispensable resource for all technical professionals tasked with deploying CTS, including netadmins, sysadmins, audio/video specialists, VoIP specialists, and operations staff. This is the only book that: Introduces every component of a complete CTS solution and shows how they work together Walks through connecting CTS in real-world environments Demonstrates how to secure virtual meetings using Cisco firewalls and security protocols Includes a full chapter on effective TelePresence room design Walks through every aspect of SIP call signaling design, including both single-cluster and intercluster examples for use in a TelePresence environment Provides prequalification, room, and network path assessment considerations to help you anticipate and avoid problems Tim Szigeti, CCIE® No. 9794, technical leader within the Cisco® Enterprise Systems Engineering team, is responsible for defining Cisco TelePresence network deployment best practices. He also coauthored the Cisco Press book *End-to-End QoS Network Design*. Kevin McMenemy, senior manager of technical marketing in the Cisco TelePresence Systems Business Unit, has spent the past nine years at Cisco supporting IP videoconferencing, video telephony, and unified communications. Roland Saville, technical leader for the Cisco Enterprise Systems Engineering team, tests and develops best-practice design guides for Cisco TelePresence enterprise deployments. Alan Glowacki is a Cisco technical marketing engineer responsible for

supporting Cisco TelePresence customers and sales teams. Use Cisco TelePresence Systems (CTS) to enhance global teamwork and collaboration, both within your own enterprise and with your customers, partners, and vendors Understand how the various components of the Cisco TelePresence Solution connect and work together Integrate CTS into existing LAN, enterprise, and service provider networks Successfully design and deploy a global TelePresence network Understand the importance of room dimensions, acoustics, lighting, and ambience and how to properly design the physical room environment Provide the high levels of network availability CTS requires Leverage the Cisco quality of service (QoS) tools most relevant to CTS network provisioning and deployment Systematically secure CTS using TLS, dTLS, sRTP, SSH, and Cisco firewalls 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: IP Communications Covers: Cisco TelePresence Systems

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## IMPLEMENTING CISCO IP ROUTING (ROUTE) FOUNDATION LEARNING GUIDE

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### FOUNDATION LEARNING FOR THE ROUTE 642-902 EXAM

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*Pearson Education* **Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide** is a Cisco® authorized learning tool for CCNP®/CCDP®/CCIP® preparation. As part of the Cisco Press Foundation Learning Series, this book teaches you how to plan, configure, maintain, and scale a routed network. It focuses on using Cisco routers connected in LANs and WANs typically found at medium-to-large network sites. After completing this book, you will be able to select and implement the appropriate Cisco IOS services required to build a scalable, routed network. Each chapter opens with the list of topics covered to clearly identify the focus of that chapter. At the end of each chapter, a summary of key concepts for quick study and review questions provide you with an opportunity to assess and reinforce your understanding of the material. Throughout the book there are many configuration examples and sample verification outputs demonstrating troubleshooting techniques and illustrating critical issues surrounding network operation. **Implementing Cisco IP Routing (ROUTE) Foundation Learning Guide** is ideal for certification candidates who are seeking a tool to learn all the topics covered in the ROUTE 642-902 exam. Serves as the official book for the Cisco Networking Academy CCNP ROUTE course Includes all the content from the e-Learning portion of the Learning@ Cisco ROUTE course Provides a thorough presentation of complex enterprise network frameworks, architectures, and models, and the process of creating, documenting, and executing an implementation plan Details Internet Protocol (IP) routing protocol principles Explores Enhanced Interior Gateway Routing Protocol (EIGRP), Open Shortest Path First (OSPF), and Border Gateway Protocol (BGP) Examines how to manipulate routing updates and control the information passed between them Covers routing facilities for branch offices and mobile workers Investigates IP Version 6 (IPv6) in detail Presents self-assessment review questions, chapter objectives, and summaries to facilitate effective studying 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.

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### FAX, MODEM, AND TEXT FOR IP TELEPHONY

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*Cisco Press* Master the basics of modems, fax, and text telephony technologies, including how modems and faxes work in an IP network infrastructure.

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### CISCO VOICE OVER IP (CVOICE)

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*Cisco Systems* **Authorized Self-Study Guide Cisco Voice over IP (CVOICE) Third Edition** Foundation learning for CVOICE exam 642-436 Kevin Wallace, CCIE No. 7945 **Cisco Voice over IP (CVOICE), Third Edition**, is a Cisco-authorized, self-paced learning tool for CCVP foundation learning. This book provides you with the knowledge and skills required to plan, design, and deploy a Cisco voice-over-IP (VoIP) network and to integrate gateways and gatekeepers into an enterprise VoIP network. By reading this book, you will gain a thorough understanding of converged voice and data networks and also the challenges you will face implementing various network technologies. **Cisco Voice over IP (CVOICE)** presents you with information on the foundational elements of VoIP calls, the description of dial plans, and the implementation of gateways, gatekeepers, and Cisco Unified Border Elements (Cisco UBEs). The book gives you the information needed to implement and support data and voice integration solutions at the network-access level. Whether you are preparing for CCVP certification or simply want to gain a better understanding of VoIP fundamentals, you will benefit from the foundation information presented in this book. **Cisco Voice over IP (CVOICE), Third 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 <http://www.cisco.com/go/authorizedtraining>. Kevin Wallace, CCIE No. 7945, is a certified Cisco instructor, and he teaches courses in the Cisco CCSP, CCVP, and CCNP® tracks. With 19 years of Cisco networking experience, Kevin has been a network design specialist for the Walt Disney World Resort and a network manager for Eastern Kentucky University. Integrate VoIP into an existing data network Design a VoIP network for optimal voice quality Examine the various call types in a VoIP network Configure analog voice interfaces and dial peers Perform call signaling over digital voice ports Implement H.323, MGCP, and SIP protocols on Cisco IOS® gateways Identify dial plan characteristics Configure advanced dial plans Deploy H.323 gatekeepers Implement a Cisco UBE router to provide protocol interworking Companion CD-ROM The CD-ROM contains a bonus 90 minutes of video demonstrations. Watch the author perform fundamental CVoice configuration tasks in a series of six video-on-demand labs. 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: Voice over IP Covers: CVoice exam 642-436

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## CISCO UNIFIED PRESENCE FUNDAMENTALS

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*Pearson Education* Cisco® Unified Presence offers companies powerful opportunities to improve productivity. Building on the migration to IP telephony and the deployment of Cisco Unified Communications environments, it helps people find each other faster, solve problems more quickly, pursue opportunities with more agility, and increase customer satisfaction. Written by three leading Cisco experts, Cisco Unified Presence Fundamentals explains the concepts behind Unified Presence, the technologies involved, their interdependencies, and how to troubleshoot them. The authors support their discussions of concepts and techniques with many sample applications, guiding network professionals to real-world mastery even if they have never used presence technologies. This book will be an indispensable resource for all Cisco partners and system integrators who need to understand Unified Presence and build solutions, and for all IT and networking professionals who must work with or support those solutions. This is the only book that Walks readers step by step through configuring Cisco Unified Presence Presents practical sample applications that encourage readers to explore and innovate in their own organizations Thoroughly covers the technical aspects of deploying Presence and explains how it can be used within key vertical markets Presents troubleshooting techniques from both server- and client-side perspectives Plan, install, configure, support, and profit from Cisco Unified Presence Understand the components of a Cisco Unified Presence solution and how they fit together Gain valuable insight into how Cisco Unified Presence can increase productivity, scheduling capabilities, and interactivity for evolving industries Understand crucial interdependencies that impact Cisco Unified Presence design, functionality, and behavior Configure Cisco Unified Presence for Federation Understand how to resolve Unified Presence issues with built-in tools and diagnostic utilities 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, passwords, and management techniques.

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## PACKET GUIDE TO VOICE OVER IP

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"O'Reilly Media, Inc." "A system administrator's guide to VoIP technologies"--Cover.

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## CONFIGURING CALLMANAGER AND UNITY

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### A STEP-BY-STEP GUIDE

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*Cisco Systems* The definitive configuration reference and field guide for Cisco CallManager and Unity.

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## CISCO AVVID AND IP TELEPHONY DESIGN AND IMPLEMENTATION

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*Elsevier* Corporate demand for AVVID solutions is rapidly increasing - engineers will need this book Cisco AVVID (Architecture for Voice, Video and Integrated Data), the latest development from Cisco Systems, is redefining the way businesses communicate. AVVID allows businesses to transmit voice, data, and video over a single integrated architecture called a "multiservice" or "converged" network. Cisco AVVID Design and Implementation is designed to be a complete desk-reference for network administrators and engineers responsible for a complicated AVVID network. Covering history, protocols, hardware, servers, switches, bridges, routers, and discussions about implementation issues, realities of cost, requirements and network limitations. Engineers will learn how to design and build a comprehensive Cisco AVVID network infrastructure. Follows on from the successful Configuring Cisco AVVID Cisco engineers and other IT professionals will find this an indispensable guide when implementing AVVID Author is Systems Engineer at Cisco

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## TROUBLESHOOTING CISCO IP TELEPHONY

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*Cisco Press* In The Implosion of Capitalism world-renowned political economist Samir Amin connects the key events of our times - financial crisis, Eurozone implosion, the emerging BRIC nations and the rise of political Islam - identifying them as symptoms of a profound systemic crisis. In light of these major crises and tensions, Amin updates and modifies the classical definitions of social classes, political parties, social movements and ideology. In doing so he exposes the reality of monopoly capitalism in its contemporary global form. In a bravura conclusion, Amin argues that the current capitalist system is not viable and that implosion is unavoidable. The Implosion of Capitalism makes clear the stark choices facing humanity - and the urgent need for a more humane global order.

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## CCVP CIPT QUICK REFERENCE SHEETS

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*Cisco Press* CCVP CIPT Quick Reference Sheets (Digital Short Cut) Kevin Wallace, CCIE No. 7945 ISBN: 1-58705-321-7 As a final preparation tool providing a review of CIPT exam topics, the CCVP CIPT Quick Reference Sheets complement official Cisco curriculum, other books, or other exam preparatory material. This digital Short Cut provides readers with detailed, graphical-based information, highlighting the key topics on the latest CIPT exam in a quick-review format. These fact-filled Quick Reference Sheets allow certification candidates to get all-important information at a glance, helping them to focus their study on areas of weakness and to enhance memory retention of important concepts. The CCVP certification recognizes a candidate's ability to create an IP telephony solution that is transparent, scalable, and manageable. Earning a CCVP certification validates a robust set of skills in implementing, operating, configuring, and

troubleshooting a converged IP network. The certification content focuses on Cisco Systems Unified CallManager, quality of service (QoS), gateways, gatekeepers, IP phones, voice applications, and utilities on Cisco routers and Cisco Catalyst switches. The Cisco IP Telephony (CIPT) exam tests the candidate's knowledge of voice-over-IP (VoIP) and public switched telephone network (PSTN) components and technologies and the candidate's ability to describe, install, configure, and support Cisco CallManager version 4.1 in a Cisco network, including such features as security and video. This Short Cut is derived from the print publication, Cisco IP Telephony Flash Cards and Exam Practice Pack , ISBN: 1-58720-128-3. Table of Contents: The Cisco CallManager IP Telephony Components Dial Plans IP Telephony Options IP Telephony Applications Administrative Utilities Cisco CallManager 4.x Enhancements

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## CCNA VOICE STUDY GUIDE

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### EXAM 640-460

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*John Wiley & Sons* The ultimate guide to the new CCNA voice network administrator certification exam The new CCNA Voice exam tests candidates on their ability to implement a Cisco VoIP solution. Network administrators of voice systems will appreciate that the CCNA Voice Study Guide focuses completely on the information required by the exam. Along with hands-on labs and an objective map showing where each objective is covered, this guide includes a CD with the Sybex Test Engine, flashcards, and entire book in PDF format. The new CCNA Voice certification will be valuable for administrators of voice network systems using Cisco VoIP solutions From Sybex, the leading CCNA publisher, this guide offers in-depth coverage of every exam objective and the technology developed by Cisco for VoIP systems Covers the components of the Cisco Unified Communications Architecture as well as PSTN and VoIP components and technologies Shows how to configure gateways, voice ports, and dial peers Demonstrates how to configure a Cisco network to support VoIP and implement voicemail CD-ROM includes the Sybex Test Engine, flashcards, and entire book in PDF format CCNA Voice Study Guide will thoroughly prepare candidates for the new CCNA Voice certification. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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## THE POWER OF IP VIDEO

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### UNLEASHING PRODUCTIVITY WITH VISUAL NETWORKING

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*Pearson Education* The Power of IP Video Unleashing Productivity with Visual Networking Jennifer C. Baker Felicia Brych Dalke Michael Mitchell Nader Nanjiani The definitive guide to deriving business value from IP video solutions Using today's rich new IP-based technologies for video, voice, and web collaboration, businesses can streamline and accelerate processes, increase productivity, and improve both top and bottom lines. In The Power of IP Video, a team of Cisco® experts shows you exactly how to make the most of these powerful new IP video solutions. Writing for both business and technical decision makers, the authors present new best practices for optimizing virtually any program or process and for improving collaboration between virtually every employee, customer, supplier, and stakeholder. Drawing on their pioneering experience working with IP video internally and supporting the top Cisco customers, the authors show you how to make the business case for IP video and offer practical guidance for successful implementation. To demonstrate IP video at work, they also present an extensive set of case studies from large, medium-size, and small companies in many leading industries. Along the way, they demonstrate the real-world application and value of several key Cisco solutions, including Cisco Unified MeetingPlace®, Cisco Unified Video Advantage, Cisco Unified Communications Manager, Cisco TelePresence™, Cisco Digital Media Management, video surveillance, and WebEx®. Use IP video to meet the needs of knowledge workers while reducing travel and other costs Extend IP video from the office to anywhere work takes you Identify opportunities to leverage IP video in finance, marketing, sales, manufacturing, and R&D Apply IP video in financial services, healthcare, e-learning, high tech, sports and entertainment, and other industries Use IP video to “scale” the impact of your senior executives Use rich media to systematically eliminate barriers to global collaboration while saving money Estimate the business value of visual networking applications Jennifer Baker, senior manager in the Worldwide Technology Practice group at Cisco, leads marketing efforts around TelePresence, Digital Media Management, and related solutions. Felicia Brych Dalke is marketing operations manager for Collaboration Business Services. Mike Mitchell is currently director of the Collaboration Business Solutions team at Cisco, responsible for connecting business processes with visual networking tools. Nader Nanjiani is marketing manager for Unified IP Communications at Cisco, and co-author of The Business Case for E-learning (Cisco Press). This volume is in the Network Business Series offered by Cisco Press®. Books in this series provide IT executives, decision makers, and networking professionals with pertinent information about today's most important technologies and business strategies. Category: Networking: IP Communications Covers: IP Video

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### CISCO QOS EXAM CERTIFICATION GUIDE (IP TELEPHONY SELF-STUDY), 2/E(642-642) (WITH CD) (CISCO PRESS)

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*Pearson Education India* This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. Official self-study test preparation guide for the Cisco QoS 642-642 exam. The official study guide helps you master all the topics on the QoS exam, including QoS concepts, tools, and architectures Modular QoS CLI (MQC), QoS Policy Manager (QPM), and AutoQoS Classification and marking Congestion management Traffic shaping and policing Congestion avoidance through drop policies Compression tools and link fragmentation and interleaving (LFI) tools for link efficiency.

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## CONFIGURING CISCO AVVID

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*Elsevier* **What is AVVID?** Previously called **Configuring Cisco Communications Networks (CCN), Architecture for Voice, Video, and Integrated Data (AVVID)** is the latest development from Cisco Systems that will soon redefine the way businesses communicate. AVVID allows businesses to transmit voice, data, and video over one combined architecture, whereas in the past, three separate systems were required. **Configuring Cisco AVVID** will be the first book to discuss the components of the AVVID architecture and will be timed to release with the launch of the technology in early 2000. A practical guide to the AVVID technology this book will include an introduction to AVVID, and its software, hardware, network architecture, installation, operation and configuration. Topics include CallManager, Cisco Gateways, and IPCC (Cisco IP Contact Center). \* The first book to discuss the components of this important new technology \* Practical guide; many engineers will find this a great source of AVVID product knowledge \* Cisco is planning to launch AVVID hardware and software in Spring 2000 - demand is already high for information \* Book will be timed to release with technology

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## **IMPLEMENTING CISCO IP SWITCHED NETWORKS (SWITCH) FOUNDATION LEARNING GUIDE**

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### **(CCNP SWITCH 300-115)**

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*Cisco Press* Now fully updated for the new Cisco SWITCH 300-115 exam, **Implementing Cisco IP Switched Networks (SWITCH) Foundation Learning Guide** is your Cisco® authorized learning tool for CCNP® or CCDP® preparation. Part of the Cisco Press Foundation Learning Series, it teaches you how to plan, configure, verify, secure, and maintain complex enterprise switching solutions using Cisco Catalyst® switches and Enterprise Campus Architecture. The authors show you how to build scalable multilayer switched networks, create and deploy global intranets, and perform basic troubleshooting in environments using Cisco multilayer switches for client hosts and services. They begin by reviewing basic switching concepts, network design, and campus network architecture. Next, they present in-depth coverage of spanning-tree, inter-VLAN routing, first-hop redundancy, network management, advanced switch features, high availability, and campus network security. Each chapter opens with a list of topics that clearly identify 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. This guide is ideal for all certification candidates who want to master all the topics covered on the SWITCH 300-115 exam. Serves as the official textbook for version 7 of the Cisco Networking Academy CCNP SWITCH course

Covers basic switching terminology and concepts, and the unique features of Cisco Catalyst switch designs  
Reviews campus network design, including network structure, roles of Cisco Catalyst switches, and differences between Layer 2 and multilayer switches  
Introduces VLANs, VTP, Trunking, and port-channeling  
Explains Spanning Tree Protocol configuration  
Presents concepts and modern best practices for interVLAN routing  
Covers first-hop redundancy protocols used by Cisco Catalyst switches  
Outlines a holistic approach to network management and Cisco Catalyst device security with AAA, NTP, 802.1x, and SNMP  
Describes how to use advanced features to improve campus network resiliency and availability  
Shows how to establish switch physical redundancy using Stackwise, VSS, or redundant supervisors  
Explains advanced security features