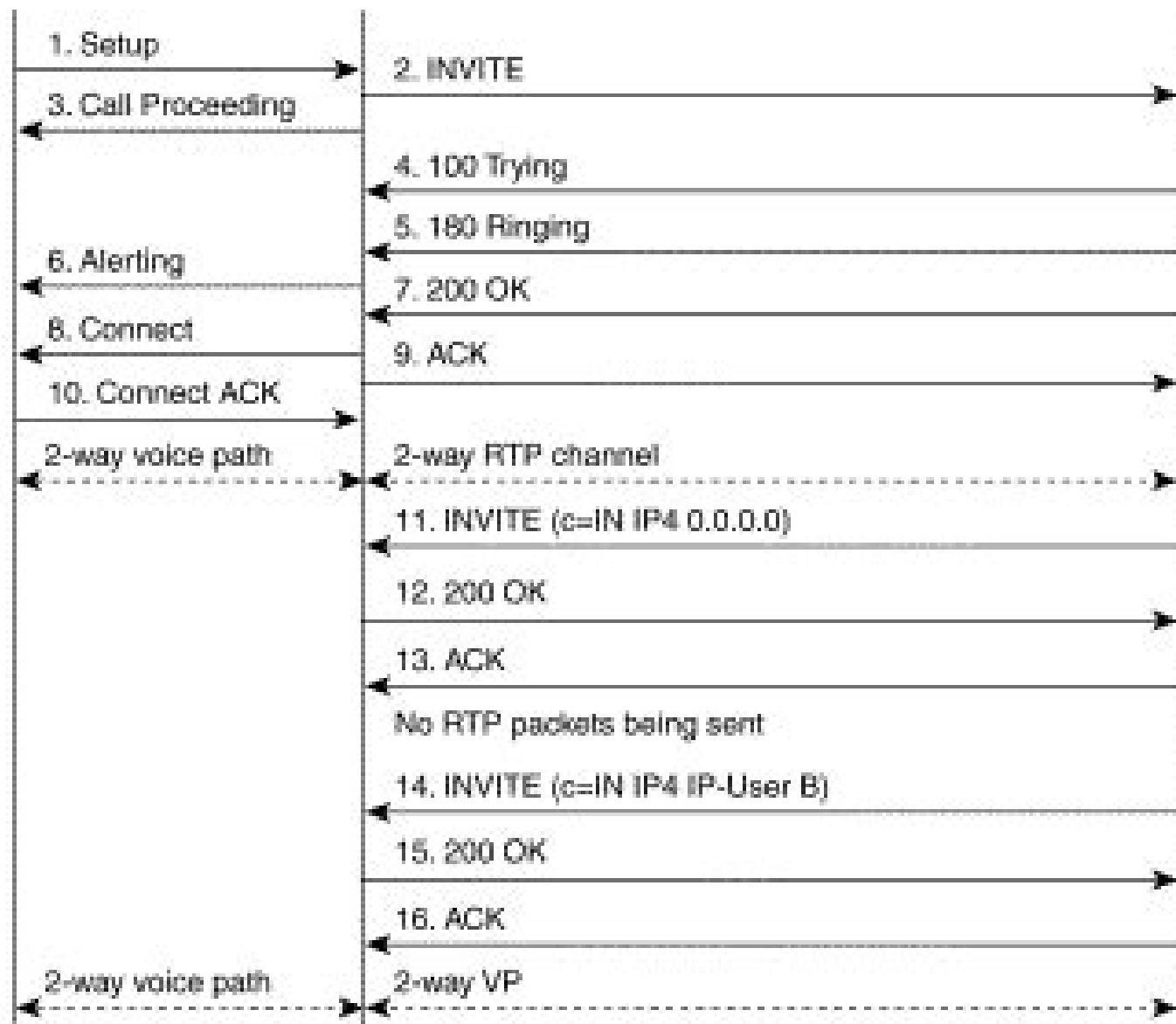




Troubleshooting Sip Calls Cisco

**Adeel Ahmed, Habib Madani, Talal
Siddiqui**



Troubleshooting Sip Calls Cisco:

Cisco Voice over IP (CVOICE) (Authorized Self-Study Guide) Kevin Wallace, 2008-07-16 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

Implementing Cisco Unified Communications Voice over IP and QoS (Cvoice) Foundation Learning Guide Kevin Wallace, 2011-05-23 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

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

Cisco Unified Customer Voice Portal Rue Green, 2011-12-16 Cisco Unified Customer Voice Portal Building Unified Contact Centers Rue Green CCIE No 9269 The definitive guide to deploying Cisco Unified Customer Voice Portal IVRs in any contact center environment Thousands of companies are replacing legacy ACD TDM based contact centers with pure IP based unified contact center solutions One of these solutions is quickly earning market leadership Cisco Unified Customer Voice Portal CVP Now one of the leading Cisco CVP experts brings together everything network and telephony professionals need to successfully implement production Interactive Voice Response IVR solutions with CVP architectural guidelines deployment best practices detailed insights for design and sizing and more CCIE Rue Green guides you through designing unified contact centers with CVP and deploying proven infrastructures to support your designs The author first explains CVP s architecture outlining its key advantages and opportunities for integration and illuminating the design challenges it presents Next he guides you through addressing each of these challenges covering all CVP components and tools and offering detailed insights available in no other book Using this book s detailed working configurations and examples you can minimize configuration errors reduce downtime strengthen monitoring and drive maximum value from any CVP based unified call center solution Rue Green CCIE No 9269 Routing Switching and Voice CISSP MCSE MCITP is a Technical Leader for the Customer Collaboration Service Line within Cisco Advanced Services where he focuses on unified contact center architectures and deployment methodologies He currently acts in a delivery architect role for Unified CVP Unified ICM and Cisco Unified Communications Manager for Unified Contact Center Solutions He has spent the last 21 years working within different roles related to the architecture design and implementation of large voice and data networks including several years working with complex contact center solutions Discover CVP s powerful capabilities and advantages Understand how CVP s components fit together into a unified architecture Utilize CVP native components Call Server VXML Server Reporting Server Operations Console Server and Cisco Unified Call Studio Integrate non native components such as IOS devices Unified ICM UCM content load balancers and third party servers Choose the right deployment model for your

organization Implement detailed call flows for Standalone Call Director Comprehensive and VRU only deployment models Design Unified CVP for high availability Efficiently deliver media via streaming caching and other techniques Address crucial sizing QoS network latency and security considerations Successfully upgrade from older versions or H 323 platforms Isolate and troubleshoot faults in native and non native CVP components Design virtualized Unified CVP deployments using UCS 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

Cisco Voice Gateways and Gatekeepers David Mallory, Ken Salhoff, Denise Donohue, 2006-08-17 Deployments of voice over IP VoIP networks continue at a rapid pace Voice gateways are an essential part of VoIP networks handling the many tasks involved in translating between transmission formats and protocols and acting as the interface between an IP telephony network and the PSTN or PBX Gatekeepers and IP to IP gateways help these networks scale Gatekeepers provide call admission control call routing address resolution and bandwidth management between H 323 endpoints including Cisco IOS voice gateways and Cisco Unified CallManager clusters IP to IP gateways allow VoIP calls to traverse disparate IP networks Cisco Voice Gateways and Gatekeepers provides detailed solutions to real world problems encountered when implementing a VoIP network This practical guide helps you understand Cisco gateways and gatekeepers and configure them properly Gateway selection design issues feature configuration and security and high availability issues are all covered in depth The abundant examples screen shots configuration snips and case studies make this a truly practical and useful guide for anyone interested in the proper implementation of gateways and gatekeepers in a VoIP network Emphasis is placed on the accepted best practices and common issues encountered in real world deployments Cisco Voice Gateways and Gatekeepers is divided into four parts Part I provides an overview of an IP voice network Part II is dedicated to voice gateways including discussions of Media Gateway Control Protocol MGCP H 323 Session Initiation Protocol SIP voice circuit options connecting to the PSTN PBX and IP WAN dial plans digit manipulation route selection class of restriction Survivable Remote Site Telephony SRST and MGCP fallback digital signal processor DSP resources and Tool Command Language Tcl scripts and Voice XML VXML Part III addresses voice gatekeepers including detailed deployment and configuration Part IV is dedicated to IP to IP gateways

CCNP Voice CVoice 642-437 Quick Reference Toby Sauer, Kevin Wallace, 2011-02-28 CCVP CVOICE Quick Reference Digital Short Cut Kevin Wallace CCIE No 7945 ISBN 10 1 58705 824 3 ISBN 13 978 1 58705 824 0 As a final exam preparation tool the CCVP CVoice Quick Reference Second Edition provides a concise review of all objectives on the CVoice exam 642 436 This digital Short Cut provides you with detailed graphical based information highlighting only the key topics in cram style format With this document as your guide you will review topics on foundational elements of VOIP calls the description of dial plans and the implementation of gateways gatekeepers and IP IP gateways This fact filled Quick Reference allows you to get all

important information at a glance helping you focus your study on areas of weakness and to enhance memory retention of essential exam concepts

Ultimate Cisco Collaboration Infrastructure for Enterprise Solutions: Unlock the True Potential of Cisco Collaboration Infrastructure for Deploying and Managing Solutions for Enterprises Lalit Pamnani, 2024-08-03

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

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and Emerging Trends Index **CCNP and CCIE Collaboration Core CLCOR 350-801 Official Cert Guide** Jason Ball, 2020-08-14 Trust the best selling Official Cert Guide series from Cisco Press to help you learn prepare and practice for exam success They are built with the objective of providing assessment review and practice to help ensure you are fully prepared for your certification exam Master Cisco CCNP CCIE CLCOR exam topics Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP and CCIE Collaboration Core CLCOR 350 801 Official Cert Guide This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition CCNP and CCIE Collaboration Core CLCOR 350 801 Official Cert 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 enable you to decide how much time you need to spend on each section Exam topic lists make referencing easy Chapter ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly CCNP and CCIE Collaboration Core CLCOR 350 801 Official Cert Guide focuses specifically on the objectives for the Cisco CCNP CCIE CLCOR 350 801 exam Collaboration expert Jason Ball shares 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 This complete study package includes A test preparation routine proven to help you pass the exams Do I Know This Already quizzes which enable you to decide how much time you need to spend on each section Chapter ending Key Topic tables which help you drill on key concepts you must know thoroughly Practice exercises that help you enhance your knowledge More than 60 minutes of video mentoring from the author An online interactive Flash Cards application to help you drill on Key Terms by chapter A final preparation chapter which guides you through tools and resources to help you craft your review and test taking strategies Study plan suggestions and templates to help you organize and optimize your study time 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 ensure your exam success The official study guide helps you master all the topics on the CCNP CCIE Collaboration Core CLCOR 350 801 exam including Infrastructure and Design Protocols Codecs and Endpoints Cisco IOS XE Gateway and Media Resources Call Control QoS Collaboration Applications VoIP Performance Management and Optimization Adeel Ahmed, Habib Madani, Talal Siddiqui, 2010-07-29 VoIP Performance Management and Optimization A KPI based approach to managing and optimizing VoIP networks IP Communications Adeel Ahmed CCIE No 4574 Habib Madani Talal Siddiqui CCIE No 4280 VoIP Performance Management and Optimization is the first comprehensive expert guide to managing monitoring troubleshooting and optimizing large VoIP networks Three leading Cisco VoIP experts bring together state of the art techniques for ensuring that customer service level agreements SLA are consistently met or exceeded The authors begin by reviewing how VoIP is deployed in enterprise and service provider networks and the performance tradeoffs and challenges

associated with each leading VoIP deployment model Next they present a comprehensive approach to diagnosing problems in VoIP networks using key performance indicators KPI and proactively addressing issues before they impact service In this book you will find a proven tools based strategy for gauging VoIP network health and maximizing performance and voice quality You also will learn how to perform trend analysis and use the results for capacity planning and traffic engineering thereby optimizing your networks for both the short and long term The authors all work in the Cisco Advanced Services Group Deploy manage monitor and scale multivendor VoIP networks more effectively Integrate performance data from multiple VoIP network segments and service flows to effectively manage SLAs Use performance counters call detail records and call agent trace logs to gauge network health in real time Utilize dashboards to analyze and correlate VoIP metrics analyze trends and plan capacity Implement a layered approach to quickly isolate and troubleshoot both localized and systemic problems in VoIP networks Optimize performance in networks where the service provider owns the last mile connection Improve performance when VoIP is deployed over publicly shared infrastructure Manage performance in enterprise networks using both centralized and distributed call processing Plan media deployment for the best possible network performance Monitor trends establish baselines optimize existing resources and identify emerging problems Understand and address common voice quality issues 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

Category Networking Unified Communications Covers Voice over IP Network Management [CCNP Collaboration Call Control and Mobility CLACCM 300-815 Official Cert Guide](#) Kyzer Davis,Paul Giralt,Patrick Kinane,Gonzalo Salgueiro,2020-12-23 Trust the best selling Official Cert Guide series from Cisco Press to help you learn prepare and practice for exam success They are built with the objective of providing assessment review and practice to help ensure you are fully prepared for your certification exam Master Cisco CCNP CLACCM 300 815 exam topics Assess your knowledge with chapter opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNP Collaboration Call Control and Mobility CLACCM 300 815 Official Cert Guide This eBook does not include access to the Pearson Test Prep practice exams that comes with the print edition CCNP Collaboration Call Control and Mobility CLACCM 300 815 Official Cert 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 help you drill on key concepts you must know thoroughly CCNP Collaboration Call Control and Mobility CLACCM 300 815 Official Cert Guide focuses specifically on the objectives for the Cisco CCNP CLACCM 300 815 exam Collaboration experts Kyzer Davis Paul Giralt Patrick Kinane and Gonzalo Salgueiro share preparation hints and test taking tips helping you identify areas of weakness and

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deal with real Cisco networks rather than the hypothetical situations presented on exams like the CCNA Network Warrior takes you step by step through the world of routers switches firewalls and other technologies based on the author s extensive field experience You ll find new content for MPLS IPv6 VoIP and wireless in this completely revised second edition along with examples of Cisco Nexus 5000 and 7000 switches throughout Topics include An in depth view of routers and routing Switching using Cisco Catalyst and Nexus switches as examples SOHO VoIP and SOHO wireless access point design and configuration Introduction to IPv6 with configuration examples Telecom technologies in the data networking world including T1 DS3 frame relay and MPLS Security firewall theory and configuration as well as ACL and authentication Quality of Service QoS with an emphasis on low latency queuing LLQ IP address allocation Network Time Protocol NTP and device failures

CCNA Voice Official Exam Certification Guide (640-460 IIUC) Jeremy Cioara, Michael J. Cavanaugh, Kris A.

Krake, 2008-11-07 Master IIUC 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 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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event messaging security and much more Every chapter contains tables and charts that serve as quick easy references to key points Each chapter closes with a summary and chapter review questions designed to help you assess and deepen your understanding PacketCable Implementation brings together everything you need to know about cable networking to service delivery Jeff Riddel CCIE R No 12798 is a network consulting engineer on the Cisco R Broadband Advanced Services team There he has consulted with all major U S MSOs including Charter Communications Comcast AT T and Time Warner Cable Riddel has represented Cisco in PacketCable interoperability testing at CableLabs in Louisville Colorado He holds a master s in electrical engineering from the Georgia Institute of Technology Discover the PacketCable big picture including key application opportunities Learn about the latest generation of PacketCable standards and specifications including PacketCable 2 0 and DOCSIS 3 0 Understand the functional components of a PacketCable network and how they fit together Walk step by step through provisioning including protocols flows and MTA configuration Gain an in depth understanding of call signaling message formats Network based Call Signaling NCS PSTN interconnects Call Management Server Signaling CMSS and more Implement efficient high performance media streaming Deploy analyze manage and troubleshoot a state of the art QoS framework Manage crucial network considerations including lawful intercept Introduction Part I Introduction and Overview of PacketCable Chapter 1 PacketCable Overview Chapter 2 PacketCable Functional Components Part II MTA Provisioning Chapter 3 Provisioning Overview Chapter 4 Provisioning Flows Chapter 5 The MTA Configuration File Part III Call Signaling Chapter 6 Signaling Interfaces and MGCP Overview Chapter 7 NCS Network based Call Signaling Chapter 8 TGCP and the PSTN Interconnect Chapter 9 Call Management Server Signaling Protocol CMSS Part IV Media Stream Chapter 10 Audio CODECs Chapter 11 RTP and RTCP Part V Quality of Service Chapter 12 DQoS Architecture and Framework Chapter 13 Analyzing Implementing and Troubleshooting DQoS Chapter 14 Multimedia Applications Part VI Network Considerations Chapter 15 Event Messaging and Lawful Intercept Chapter 16 PacketCable Network Design Considerations Part VII Appendixes Appendix A Standards and Specifications Appendix B Cable Monitor and Ethereal Appendix C Complete Call Flows Index This book is part of the Networking Technology Series from Cisco Press R which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers Category Cisco Press Networking Covers Broadband Multimedia 75 00 USA 94 00 CAN ,

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features such as Call Control Discovery SIP Precondition and Extension Mobility Cross Cluster as well as dial plan troubleshooting including globalized call routing 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 essential exam concepts

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