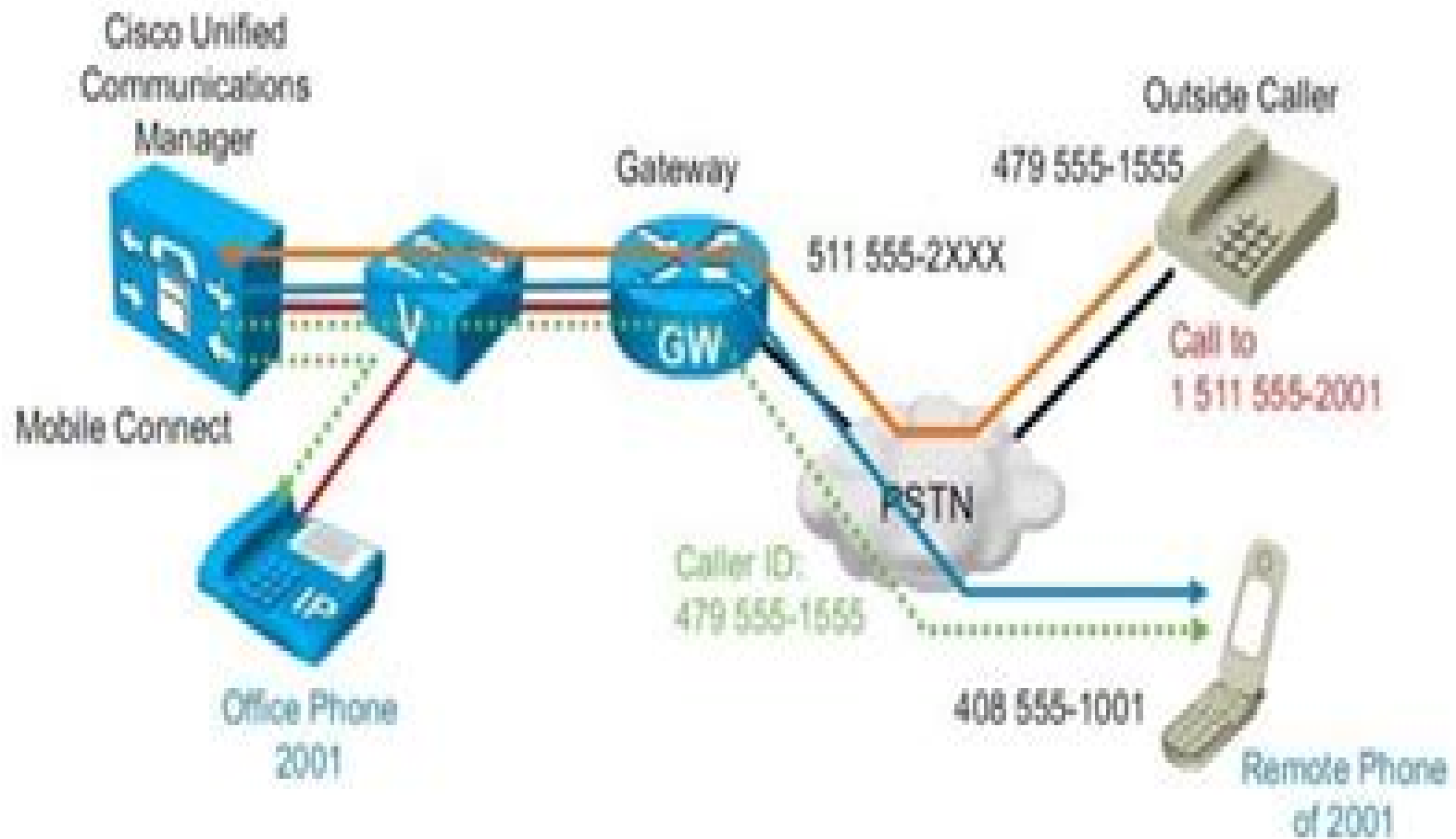


CUCM: Cisco Unified Communications Manager



Network Design Guide Cucm

SA Adler



Network Design Guide Cucm:

Implementing Cisco Unified Communications Manager, Part 1 (CIPT1) (Authorized Self-Study Guide) Dennis Hartmann, 2008-06-23 Foundation learning for CIPT1 exam 642 446 Dennis Hartmann CCIE No 15651 Implementing Cisco Unified Communications Manager Part 1 CIPT1 is a Cisco authorized self paced learning tool for CCVP foundation learning This book provides the knowledge necessary to install configure and deploy a Cisco Unified Communications solution based on Cisco Unified Communications Manager the call routing and signaling component of the Cisco Unified Communications solution By reading this book you will gain an understanding of deploying a Cisco Unified Communications Manager to support single site centralized distributed and hybrid call processing models This book focuses on Cisco Unified Communications Manager Release 6 x You will learn how to install and configure Cisco Unified Communications Manager power over Ethernet switches and gateways using MGCP You will also learn how to build a scalable dial plan for on net and off net calls The dial plan chapters of the book cover call routing call coverage digit manipulation class of service and call coverage components This book will teach you how to implement media resources LDAP directory integration and various endpoints including Skinny Client Control Protocol SCCP and Session Initiation Protocol SIP Cisco Unified Video 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 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 **Implementing Cisco Unified Communications Manager** Josh Finke,Dennis Hartmann,2012 Rev ed of Implementing Cisco Unified Communications Manager authorized self study guide Dennis Hartmann Chris Olsen c2008 c2009 **Configuring Cisco Unified Communications Manager and Unity Connection** David J. Bateman,2011-05-09 The definitive up to date guide to planning configuring and administering Cisco call processing and voice messaging This book brings together all the hands on knowledge you need to successfully configure and administer Cisco s flagship IP voice systems including Cisco Unified Communications Manager CUCM Unity and Unity Connection Fully updated for the new CUCM Unity and Unity Connection version 8 it presents step by step procedures for every common and complex task that installers integrators and administrators will encounter Long time Cisco voice implementer and instructor David Bateman begins with clear well organized explanations of Cisco Voice over IP technology including its key functions and devices Next he guides you through preparation and deployment including configuring CUCM for maximum performance removing DNS dependencies defining enterprise parameters configuring regions and enforcing security The author presents quick access step by step solutions for dozens of post deployment tasks each with thorough instructions and cross references to prerequisite tasks wherever needed He demonstrates how to integrate features to create more powerful IP voice systems thoroughly introduces Cisco s new management interface and provides extensive coverage of the latest feature enhancements David Bateman is a certified Cisco instructor CCNA and director of curriculum development for Skyline ATS He has 20 years of internetworking experience including more than a decade as a senior LAN WAN engineer in networks serving up to 5 000 users He then ran the business operations of a technical services company while maintaining his existing networking client base David has taught and implemented Cisco voice technologies since 2000 He authored this book s first edition and co authored CCNA Voice Exam Cram Establish a foundation for CUCM configure services set enterprise parameters register devices and more Add gateways and client devices Create dial plans including route patterns route lists route groups CTI route points translation patterns and route filters Configure Class of Service CoS and Call Admission Control Implement IP phone service media resources and Extension Mobility Prepare to deploy Unity Connection verify integration define system parameters and create templates distribution lists and CoS Add import and manage users Make the most of Unity Connection call management from basic auto attendant to advanced routing rules and audio text Integrate legacy voicemail systems Master Unity Connection s key administrative tools and utilities Use time of day routing call queuing and other advanced features This IP communications book is part of the Cisco Press Networking Technology Series IP communications titles from Cisco Press help networking professionals understand voice and IP telephony technologies plan and design converged networks

and implement network solutions for increased productivity

Implementing Cisco Unified Communications Manager, Part 2 (CIPT2) Foundation Learning Guide Chris Olsen, 2011-08-01 Implementing Cisco Unified Communications Manager Part 2 CIPT2 Second Edition is a Cisco authorized self paced learning tool for CCNP Voice foundation learning This book provides you with the knowledge needed to install and configure a Cisco Unified Communications Manager solution in a multisite environment By reading this book you will gain a thorough understanding of how to apply a dial plan for a multisite environment configure survivability for remote sites during WAN failure and implement solutions to reduce bandwidth requirements in the IP WAN This book focuses on Cisco Unified Communications Manager CUCM Release 8 x the call routing and signaling component for the Cisco Unified Communications solution The book has been fully updated and includes new coverage of topics such as Service Advertisement Framework SAF and Call Control Discovery CCD Whether you are preparing for CCNP Voice certification or simply want to gain a better understanding of deploying Cisco Unified Communications Manager in a multisite environment you will benefit from the foundation information presented in this book

Implementing Cisco Unified Communications Manager Part 2 CIPT2 Second Edition is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Chris Olsen CCVP and CCNP along with numerous other Cisco voice specializations Microsoft VMware and Novell certifications has been an independent IT and telephony consultant author and technical editor for more than 15 years He has been a technical trainer for more than 19 years and has taught more than 60 different courses in Cisco Microsoft VMware and Novell For the last seven years he has specialized in Cisco and recently Microsoft Unified Communications along with VMware virtualization and Cisco data center technologies He has done a wide array of IT and telephony consulting for many different companies Identify multisite issues and deployment solutions Implement multisite connections Apply dial plans for multisite deployments Examine remote site redundancy options Implement Survivable Remote Site Telephony SRST and Media Gateway Control Protocol MGCP Fallback Implement CUCM Express in SRST mode Implement bandwidth management and call admission control CAC Configure device and extension mobility Apply Service Advertisement Framework SAF and Call Control Discovery CCD This volume is in the Foundation Learning Guide Series offered by Cisco Press These guides are developed together with Cisco as the only authorized self paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams

Implementing Cisco IP Telephony and Video, Part 1 (CIPTV1) Foundation Learning Guide (CCNP Collaboration Exam 300-070 CIPTV1) Akhil Behl, Joshua Samuel Finke, Berni Gardiner, 2016-09-29 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

Designing for Cisco Internetwork Solutions (DESGN) Foundation Learning Guide Sean Wilkins, 2011-07-25 Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition Sean Wilkins Foundation learning for the CCDA DESGN 640 864 exam Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition is a Cisco authorized self paced learning tool for CCDA foundation learning This book provides you with the knowledge needed to design enterprise networks By reading this book you will gain a thorough understanding of designing routed and switched network infrastructures and services involving LAN WAN and broadband access for businesses and organizations Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide Third Edition teaches you how to gather internetworking requirements identify solutions and design the network infrastructure and services to ensure basic functionality using the principles of hierarchical network design to structure and modularize a converged enterprise network design Specific topics include understanding the design methodology structuring and modularizing the network design designing the Enterprise Campus Enterprise Data Center Enterprise Edge and remote modules as needed designing an addressing plan and selecting suitable routing protocols designing basic voice transport across the network designing a basic wireless solution and evaluating security solutions Chapter ending review questions illustrate and help solidify the concepts presented in the book Whether you are preparing for CCDA certification or simply want to gain a better understanding of network design principles

you will benefit from the foundation information presented in this book Designing for Cisco Internetwork Solutions DESGN Foundation Learning Guide 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 www.cisco.com/go/authorizedtraining Understand network design methodologies and the lifecycle of a network Learn how to structure and modularize network designs within the Cisco Network Architectures for the Enterprise Design basic campus and data center networks Build designs for remote connectivity with WAN technologies Examine IPv4 and IPv6 addressing schemes Select the appropriate routing protocols for various modules in the enterprise architecture Evaluate security solutions for the network Identify voice and video networking considerations Understand design technologies and considerations when implementing a controller based wireless network 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 Unified Communications Manager, Part 2 (CIPT2) (Authorized Self-Study Guide) Chris Olsen, 2008-10-09

Authorized Self Study Guide Implementing Cisco Unified Communications Manager Part 2 CIPT2 Foundation learning for CIPT2 exam 642 456 Chris Olsen Implementing Cisco Unified Communications Manager Part 2 CIPT2 is a Cisco authorized self paced learning tool for CCVP foundation learning This book provides you with the knowledge needed to install and configure a Cisco Unified Communications Manager solution in a multisite environment By reading this book you will gain a thorough understanding of how to apply a dial plan for a multisite environment configure survivability for remote sites during WAN failure implement solutions to reduce bandwidth requirements in the IP WAN enable Call Admission Control CAC and automated alternate routing AAR and implement device mobility extension mobility Cisco Unified Mobility and voice security This book focuses on Cisco Unified CallManager Release 6 0 the call routing and signaling component for the Cisco Unified Communications solution It also includes H 323 and Media Gateway Control Protocol MGCP gateway implementation the use of a Cisco Unified Border Element and configuration of Survivable Remote Site Telephony SRST different mobility features and voice security Whether you are preparing for CCVP certification or simply want to gain a better understanding of deploying Cisco Unified Communications Manager in a multisite environment you will benefit from the foundation information presented in this book Implementing Cisco Unified Communications Manager Part 2 CIPT2 is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Chris Olsen is the president and founder of System Architects Inc a training and consulting firm specializing in Cisco Microsoft and

Novell networking IP telephony and information technologies Chris has been teaching and consulting in the networking arena for more than 15 years He currently holds his CCNA CCDA CCNP and CCVP certifications as well as various Microsoft certifications Identify multisite issues and deployment solutions Implement multisite connections Apply dial plans for multisite deployments Examine remote site redundancy options Deploy Cisco Unified Communications Manager Express in SRST mode Implement bandwidth management call admission control CAC and call applications on Cisco IOS gateways Configure device extension mobility and Cisco unified mobility Understand cryptographic fundamentals and PKI Implement security in Cisco Unified Communications Manager This volume is in the Certification Self Study Series offered by Cisco Press Books in this series provide officially developed self study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations Category Cisco Unified Communications Manager 6 0 Covers CIPT2 Exam 642 456 SIP Trunking Christina Hattingh, Darryl Sladden, ATM Zakaria Swapan, 2010-02-18 The first complete guide to planning evaluating and implementing high value SIP trunking solutions Most large enterprises have switched to IP telephony and service provider backbone networks have largely converted to VoIP transport But there's a key missing link most businesses still connect to their service providers via old fashioned inflexible TDM trunks Now three Cisco experts show how to use Session Initiation Protocol SIP trunking to eliminate legacy interconnects and gain the full benefits of end to end VoIP Written for enterprise decision makers network architects consultants and service providers this book demystifies SIP trunking technology and trends and brings unprecedented clarity to the transition from TDM to SIP interconnects The authors separate the true benefits of SIP trunking from the myths and help you systematically evaluate and compare service provider offerings You will find detailed cost analyses including guidance on identifying realistic achievable savings SIP Trunking also introduces essential techniques for optimizing network design and security introduces proven best practices for implementation and shows how to apply them through a start to finish case study Discover the advanced Unified Communications solutions that SIP trunking facilitates Systematically plan and prepare your network for SIP trunking Generate effective RFPs for SIP trunking Ask service providers the right questions and make sense of their answers Compare SIP deployment models and assess their tradeoffs Address key network design issues including security call admission control and call flows Manage SIP TDM interworking throughout the transition 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 **CCDA 200-310 Official Cert Guide** Anthony Bruno, Steve Jordan, 2016-06-29 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 CCDA 200 310 exam topics Assess your knowledge with

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Froehlich,2010-07-01 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

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routing QoS multicast and management comparing them with familiar IPv4 features and behavior Finally they translate IPv6 concepts into usable configurations Up to date and practical IPv6 for Enterprise Networks is an indispensable resource for every network engineer architect manager and consultant who must evaluate plan migrate to or manage IPv6 networks Shannon McFarland CCIE No 5245 is a Corporate Consulting Engineer for Cisco serving as a technical consultant for enterprise IPv6 deployment and data center design with a focus on application deployment and virtual desktop infrastructure For more than 16 years he has worked on large scale enterprise campus WAN branch and data center network design and optimization For more than a decade he has spoken at IPv6 events worldwide including Cisco Live Muninder Sambi CCIE No 13915 is a Product Line Manager for Cisco Catalyst 4500 4900 series platform is a core member of the Cisco IPv6 development council and a key participant in IETF s IPv6 areas of focus Nikhil Sharma CCIE No 21273 is a Technical Marketing Engineer at Cisco Systems where he is responsible for defining new features for both hardware and software for the Catalyst 4500 product line Sanjay Hooda CCIE No 11737 a Technical Leader at Cisco works with embedded systems and helps to define new product architectures His current areas of focus include high availability and messaging in large scale distributed switching systems n Identify how IPv6 affects enterprises n Understand IPv6 services and the IPv6 features that make them possible n Review the most common transition mechanisms including dual stack IPv4 IPv6 networks IPv6 over IPv4 tunnels and IPv6 over MPLS n Create IPv6 network designs that reflect proven principles of modularity hierarchy and resiliency n Select the best implementation options for your organization n Build IPv6 lab environments n Configure IPv6 step by step in campus WAN branch and data center networks n Integrate production quality IPv6 services into IPv4 networks n Implement virtualized IPv6 networks n Deploy IPv6 for remote access n Manage IPv6 networks efficiently and cost effectively This book is part of the Networking Technology Series from Cisco Press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers Practical Cisco Unified Communications Security Brett Hall,Nik Smith,2020-12-04 Master the foundations of modern Cisco Unified Communications UC system security This guide helps you build foundational knowledge for securing modern Cisco Unified Communications environments that support voice video messaging and meetings and support different types of real time collaboration capabilities based on mobile remote access and mobile devices based on bring your own device BYOD initiatives Writing for administrators and managers two Cisco collaboration experts bring together methods and insights to illuminate both the why and the how of effective collaboration security Using the proven Explain Demonstrate and Verify methodology they explain each threat demonstrate remediation and show how to confirm correct implementation You ll walk through securing each attack surface in a logical progression across each Cisco UC application domain The authors address key updates to Cisco collaboration architecture including Expressway Cisco Meeting Server encryption enhancements and advanced business to business collaboration You ll find quick reference checklists in

each chapter and links to more detail wherever needed Begin by protecting your workforce through basic physical security and life safety techniques Understand how attackers seek to compromise your UC system s network environment and your best countermeasures Maintain security across all UC deployment types n Protect core UC applications by locking down and hardening the core operating system Use encryption to protect media and signaling and enforce secure authentication Secure Cisco Unified Communications Manager Cisco Unity Connection and Cisco Meeting Server Deploy Session Border Controllers to provide security controls for VoIP and video traffic Provide additional protection at the edge of the network Safeguard cloud based and hybrid cloud services Enable organizations to seamlessly and securely connect to cloud UC services Allow remote teleworker users to connect safely to local UC resources

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

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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 **Cisco Unified**

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