



IP COMMUNICATIONS

# Voice-Enabling the Data Network:

H.323, MGCP, SIP, QoS, SLAs, and Security

Understand Voice over IP components and design practices for new or migrated VoIP networks

James F. Durkin

**Ulrich Trick, Frank Weber** 

**Voice Enabling the Data Network** James F. Durkin,2003 This text aims to assist Telco and ISP engineers and technicians in their transition to IP telephony It provides a step by step approach to designing a voice over IP VoIP network

Management, Control and Evolution of IP Networks Guy Pujolle, 2013-03-01 Internet Protocol IP networks have for a number of years provided the basis for modern communication channels However the control and management of these networks needs to be extended so that the required Quality of Service can be achieved Information about new generations of IP networks is given covering the future of pervasive networks that is networks that arealways present Wi Fi the control of mobility and improved Quality of Service sensor networks inter vehicle communication and optical networks Communications Security F. Garzia, 2013 Communications represent a strategic sector for privacy protection and for personal company national and international security The interception damage or lost of information during communication can generate material and non material economic damages from both a personal and collective point of view The purpose of this book is to give the reader information relating to all aspects of communications security beginning at the base ideas and building to reach the most advanced and updated concepts The book will be of interest to integrated system designers telecommunication designers system engineers system analysts security managers technicians intelligence personnel security personnel police army private investigators scientists graduate and postgraduate students and anyone that needs to IPSec VPN Design Vijay Bollapragada, Mohamed Khalid, Scott Wainner, 2005-03-29 The communicate in a secure way definitive design and deployment guide for secure virtual private networks Learn about IPSec protocols and Cisco IOS IPSec packet processing Understand the differences between IPSec tunnel mode and transport mode Evaluate the IPSec features that improve VPN scalability and fault tolerance such as dead peer detection and control plane keepalives Overcome the challenges of working with NAT and PMTUD Explore IPSec remote access features including extended authentication mode configuration and digital certificates Examine the pros and cons of various IPSec connection models such as native IPSec GRE and remote access Apply fault tolerance methods to IPSec VPN designs Employ mechanisms to alleviate the configuration complexity of a large scale IPSec VPN including Tunnel End Point Discovery TED and Dynamic Multipoint VPNs DMVPN Add services to IPSec VPNs including voice and multicast Understand how network based VPNs operate and how to integrate IPSec VPNs with MPLS VPNs Among the many functions that networking technologies permit is the ability for organizations to easily and securely communicate with branch offices mobile users telecommuters and business partners Such connectivity is now vital to maintaining a competitive level of business productivity Although several technologies exist that can enable interconnectivity among business sites Internet based virtual private networks VPNs have evolved as the most effective means to link corporate network resources to remote employees offices and mobile workers VPNs provide productivity enhancements efficient and convenient remote access to network resources site to site connectivity a high level

of security and tremendous cost savings IPSec VPN Design is the first book to present a detailed examination of the design aspects of IPSec protocols that enable secure VPN communication Divided into three parts the book provides a solid understanding of design and architectural issues of large scale secure VPN solutions Part I includes a comprehensive introduction to the general architecture of IPSec including its protocols and Cisco IOS IPSec implementation details Part II examines IPSec VPN design principles covering hub and spoke full mesh and fault tolerant designs This part of the book also covers dynamic configuration models used to simplify IPSec VPN designs Part III addresses design issues in adding services to an IPSec VPN such as voice and multicast This part of the book also shows you how to effectively integrate IPSec VPNs with MPLS VPNs IPSec VPN Design provides you with the field tested design and configuration advice to help you deploy an effective and secure VPN solution in any environment This security book is part of the Cisco Press Networking Technology Series Security titles from Cisco Press help networking professionals secure critical data and resources prevent and mitigate Signaling in Telecommunication Networks John G. van network attacks and build end to end self defending networks Bosse, Fabrizio U. Devetak, 2006-12-20 Guidance to help you grasp even the most complex network structures and signaling protocols The Second Edition of Signaling in Telecommunication Networks has been thoroughly updated offering new chapters and sections that cover the most recent developments in signaling systems and procedures This acclaimed book covers subscriber and network signaling in both fixed and mobile networks Coverage begins with an introduction to circuit switched telephone networks including an examination of trunks exchanges access systems transmission systems and other basic components Next the authors introduce signaling concepts beginning with older Channel Associated Signaling CAS systems and progressing to today s Common Channel Signaling CCS systems The book then examines packet networks and their use in transmitting voice VoIP TCP IP protocols VoIP signaling protocols and ATM protocols Throughout the book the authors emphasize functionality particularly the roles of individual protocols and how they fit in network architectures helping readers grasp even the most complex network structures and signaling protocols Highlights of the Second Edition include Coverage of the latest developments and topics including new chapters on access networks intelligent network application part signaling for voice communication in packet networks and ATM signaling Drawings and tables that help readers understand and visualize complex systems Comprehensive updated references for further study Examples to help readers make the bridge from theory to application With the continued growth and expansion of the telecommunications industry the Second Edition is essential reading for telecommunications students as well as anyone involved in this dynamic industry needing a solid understanding of the different signaling systems and how they work Moreover the book helps readers wade through the voluminous and complex technical standards by providing the essential structure terminology and functionality needed to understand them **Triple Play** Francisco J. Hens, José M. Caballero, 2008-04-30 Triple Play is a combination of Internet access voice communication telephony and entertainment services such as IP television and video on

demand The erosion of the traditional voice service together with the ever increasing competition between companies is pushing the telecommunications industry towards a major shift in its business models Customers want more services in a more flexible way Today this shift can only be carried out by offering converged services built around the Internet Protocol IP Triple Play a bundle of voice video and data services for residential customers is the basis of this new strategy Hens and Caballero explain how and why the telecommunications industry is facing this change how to define implement and offer these new services and describes the technology behind the converged network Triple Play analyses a number of business strategies to minimise costs while migrating infrastructures and offering new services Triple Play Describes the elementary concepts of triple play service provision and gives detailed technical information to highlight key aspects Discussed access networks transport signaling service definition and business models Covers the latest innovations in Triple Play services such as Ethernet in the First Mile EFM VDSL2 Very High Speed DSL second generation pseudowires and Multiprotocol Label Switching MPLS Explores video solutions encoding IPTV VoD alongside transmission and switching technologies Ethernet DSL PON NG SDH Includes a chapter on IP Multimedia Subsystem IMS and on fixed mobile convergence Triple Play Building the Converged Network for IP VoIP and IPTV provides decision makers engineers telecommunications operators network equipment manufacturers installers and IT managers with a thorough understanding of the changes of traditional voice service and its impact upon the telecommunications industry **Creating Web-based Laboratories** C.C. Ko, Ben M. Chen, Jianping Chen, 2005-11-24 Covers the transmission of real time video and audio for internet experimentation Provides detailed descriptions of how the various hardware and software systems can be seamlessly integrated for a complete internet remote experimentation system Contains examples of real working experiments that are currently running The British National Bibliography Arthur James Wells, 2003 Telecommunications ,2002 **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 Internet Protocol (VoIP) Security James F. Ransome PhD CISM CISSP John Rittinghouse PhD CISM, 2005-01-19 Voice Over Internet Protocol Security has been designed to help the reader fully understand prepare for and mediate current security and QoS risks in today s complex and ever changing converged network environment and it will help you secure your VoIP network whether you are at the planning implementation or post implementation phase of your VoIP infrastructure This book will teach you how to plan for and implement VoIP security solutions in converged network infrastructures Whether you have picked up this book out of curiosity or professional interest it is not too late to read this book and gain a deep understanding of what needs to be done in a VoIP implementation In the rush to be first to market or to implement the latest and greatest technology many current implementations of VoIP infrastructures both large and small have been implemented with minimal thought to OoS and almost no thought to security and interoperability Security Patrick Park, 2008-09-09 Voice over IP Security Security best practices derived from deep analysis of the latest VoIP network threats Patrick Park VoIP security issues are becoming increasingly serious because voice networks and services cannot be protected from recent intelligent attacks and fraud by traditional systems such as firewalls and NAT alone After analyzing threats and recent patterns of attacks and fraud consideration needs to be given to the redesign of secure VoIP architectures with advanced protocols and intelligent products such as Session Border Controller SBC Another type of security issue is how to implement lawful interception within complicated service architectures according to government requirements Voice over IP Security focuses on the analysis of current and future threats the evaluation of security products the methodologies of protection and best practices for architecture design and service deployment This book not only covers technology concepts and issues but also provides detailed design solutions featuring current products and protocols so that you can deploy a secure VoIP service in the real world with confidence Voice over IP Security gives you everything you need to understand the latest security threats and design solutions to protect your VoIP network from fraud and security incidents Patrick Park has been working on product design network architecture design testing and consulting for more than 10 years Currently Patrick works for Cisco as a VoIP test engineer focusing on security and interoperability testing of rich media collaboration gateways Before Patrick joined Cisco he worked for Covad Communications as a VoIP security engineer focusing on the design and deployment of secure network architectures and lawful interception CALEA Patrick graduated

from the Pusan National University in South Korea where he majored in computer engineering Understand the current and emerging threats to VoIP networks Learn about the security profiles of VoIP protocols including SIP H 323 and MGCP Evaluate well known cryptographic algorithms such as DES 3DES AES RAS digital signature DSA and hash function MD5 SHA HMAC Analyze and simulate threats with negative testing tools Secure VoIP services with SIP and other supplementary protocols Eliminate security issues on the VoIP network border by deploying an SBC Configure enterprise devices including firewalls Cisco Unified Communications Manager Cisco Unified Communications Manager Express IP phones and multilayer switches to secure VoIP network traffic Implement lawful interception into VoIP service environments 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 IP Communication Covers VoIP Security ΙP Telephony with H.323 Vineet Kumar, Markku Korpi, Senthil Sengodan, 2002-02-28 This book presents end to end system basics for IP telephony the technology that enables private data networks to provide extended communication services and multimedia transmission over standard phone lines Written by the chief architects of H 323 the governing protocol for IP telephony this book delivers the most authoritative coverage of what is considered the hottest topic in networking today Network and telecommunications professionals will find clear discussions of the principles and implementations of next generation architectures and services as well as comprehensive coverage of the related protocols addressing and routing issues interworking IP with legacy systems deploying gateways and more Mobility security and QoS aspects of H 323 systems are also explained in detail Integrating Voice and Data Networks Scott Keagy, 2000 Annotation Voice Data Integration on Cisco Networks is both a conceptual reference and a practical how to book that bridges the gap between existing telephony networks and the new world of packetized voice over data networks Technologies are explained in a context that gives the reader a holistic understanding of voice data integration Reader can then follow a complete process to design and implement a variety of network scenarios leveraging the author's experience with real voice data networks. The audio accompaniment on CD ROM will be an excellent companion to demonstrate the expected voice quality using different voice data networking scenarios This will allow professionals in the field to demonstrate different sound quality levels to customers Voice and Data Security Gregory B. White, 2001 Data and Voice Security will enable readers to protect data networks from the most common threats Learn what security vulnerabilities currently exist in data networks and become aware of the threats the telephone network poses to the data network Use updated information to protect the data network from the telephone network Packet Guide to Voice Over IP Bruce Hartpence, 2013 A system administrator s guide to VoIP technologies Configuring Cisco Voice Over IP Syngress, 2002-09-13 Configuring Cisco Voice Over IP Second Edition provides Cover 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 topicVoice 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 Carrier Grade Voice Over IP, Third Edition Richard Swale, Daniel Collins, 2013-10-01 Leading edge VoIP technologies tools and standards Efficiently deliver voice data and multimedia content over today s always on broadband networks with guidance from this fully updated resource Carrier Grade VoIP Third Edition shows how to set up and administer a highly reliable unified communications platform using the latest tools Find out how to choose from the complete spectrum of codecs enable new HD voice and video services handle security and maintain optimal QoS This comprehensive guide offers start to finish details on carrier grade VoIP network design troubleshooting and interconnection Coverage includes HD voice services Internet IP and VoIP standards Speech coding techniques H 323 and multimedia conferencing SIP messages and architecture The SS7 protocol suite Interconnecting VoIP networks QoS policies and enforcement Security and privacy issues VoIP network design Voice Over IP Fundamentals Jonathan Davidson, James Peters, Brian Gracely, 2000 A systematic approach to understanding the basics of Voice over IP Understand the basics of PSTN services and IP signaling protocols including SS7 Learn how VoIP can run the same applications as the existing telephony system but in a more cost efficient and scalable manner Delve into such VoIP topics as jitter latency packet loss codecs quality of service tools and mean opinion scores Learn about the functional components involved in using Cisco gateways to deploy VoIP networks Voice over IP VoIP which integrates voice and data transmission is quickly becoming an important factor in network communications It promises lower operational costs greater flexibility and a variety of enhanced applications Voice over IP Fundamentalsprovides a thorough introduction to this new technology to help experts in both the data and telephone industries plan for the new networks You will learn how the telephony infrastructure was built and how it works today the major concepts concerning voice and data networking transmission of voice over data and IP signaling protocols used to interwork with current telephony systems The authors cover various benefits and applications of VoIP and how to ensure good voice quality in your network This book is part of the

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