



# Avaya IP Telephony Implementation Guide

Communication Manager

Avaya Labs

## ABSTRACT

This application note gives implementation guidelines for the Avaya MultiVantage™ product suite. Configurations and recommendations are given for various Avaya™ Media Servers and Gateways, as well as the Avaya™ 4600 Series IP Telephones. This document also provides information on virtual local area networks (VLAN), and guidelines for configuring Avaya and Cisco networking equipment in VoIP applications.

The intent of this document is to provide training on IP telephony, and to give guidelines for implementing Avaya solutions. It is intended to supplement the product documentation, not replace it.

This document covers Avaya™ Communication Manager software, with only limited reference to previous software versions. It also covers Avaya 4600 series IP telephone R1.61 and later.

## Application Note

May 2003

COMPAS ID 95180

# Ip Telephony Configuration Guide Avaya

**Brendan G. Carr**



## **Ip Telephony Configuration Guide Avaya:**

**Hacking Exposed VoIP: Voice Over IP Security Secrets & Solutions** David Endler, Mark Collier, 2006-11-28 Sidestep VoIP Catastrophe the Foolproof Hacking Exposed Way This book illuminates how remote users can probe sniff and modify your phones phone switches and networks that offer VoIP services Most importantly the authors offer solutions to mitigate the risk of deploying VoIP technologies Ron Gula CTO of Tenable Network Security Block debilitating VoIP attacks by learning how to look at your network and devices through the eyes of the malicious intruder Hacking Exposed VoIP shows you step by step how online criminals perform reconnaissance gain access steal data and penetrate vulnerable systems All hardware specific and network centered security issues are covered alongside detailed countermeasures in depth examples and hands on implementation techniques Inside you ll learn how to defend against the latest DoS man in the middle call flooding eavesdropping VoIP fuzzing signaling and audio manipulation Voice SPAM SPIT and voice phishing attacks Find out how hackers footprint scan enumerate and pilfer VoIP networks and hardware Fortify Cisco Avaya and Asterisk systems Prevent DNS poisoning DHCP exhaustion and ARP table manipulation Thwart number harvesting call pattern tracking and conversation eavesdropping Measure and maintain VoIP network quality of service and VoIP conversation quality Stop DoS and packet flood based attacks from disrupting SIP proxies and phones Counter REGISTER hijacking INVITE flooding and BYE call teardown attacks Avoid insertion mixing of malicious audio Learn about voice SPAM SPIT and how to prevent it Defend against voice phishing and identity theft scams

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*Hacking Exposed Unified Communications & VoIP Security Secrets & Solutions, Second Edition* Mark Collier, David Endler, 2013-12-20 The latest techniques for averting UC disaster Establish a holistic security stance by learning to view your unified communications infrastructure through the eyes of the nefarious cyber criminal Hacking Exposed Unified Communications VoIP Second Edition offers thoroughly expanded coverage of today s rampant threats alongside ready to deploy countermeasures Find out how to block TDoS toll fraud voice SPAM voice social engineering and phishing eavesdropping and man in the middle exploits This comprehensive guide features all new chapters case studies and examples See how hackers target vulnerable UC devices and entire networks Defend against TDoS toll fraud and service abuse Block calling number hacks and calling number spoofing Thwart voice social engineering and phishing exploits Employ voice spam mitigation products and filters Fortify Cisco Unified Communications Manager Use encryption to prevent eavesdropping and MITM attacks Avoid injection of malicious audio video and media files Use fuzzers to test and buttress your VoIP applications Learn about emerging technologies such as Microsoft Lync OTT UC other forms of

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**PBX Systems for IP Telephony** Allan Sulkin, 2002 This work explains telephone switching systems and how the technology is evolving to accommodate voice over IP traffic Unlike data networks telephone networks are proprietary They re purchased as complete systems and are hard if not impossible to modify Allan Sulkin explains how to acquire deploy and maintain a system with all the features needed to support essential new applications and how to get optimal performance from the system you have

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**InfoWorld**, 2005-05-02 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

**PC Magazine**, 2008 [The Essential Guide to Telecommunications](#) Annabel Z. Dodd, 2012 Telecom guide for businesspeople and nontechnical professionals Updated for cloud services social media and advanced mobile networks

**Switching to VoIP** Theodore Wallingford, 2005 More and more businesses today have their receive phone service through Internet instead of local phone company lines Many businesses are also using their internal local and wide area network infrastructure to replace legacy enterprise telephone networks This migration to a single network carrying voice and data is called convergence and it s revolutionizing the world of telecommunications by slashing costs and empowering users The technology of families driving this convergence is called VoIP or Voice over IP VoIP has advanced Internet based telephony to a viable solution piquing the interest of companies small and large The primary reason for migrating to VoIP is cost as it equalizes the costs of long distance calls local calls and e mails to fractions of a penny per use But the real enterprise turn on is how VoIP empowers businesses to mold and customize telecom and datacom solutions using a single cohesive networking platform These business drivers are so compelling that legacy telephony is going the way of the dinosaur yielding to Voice over IP as the dominant enterprise communications paradigm Developed from real world experience by a senior developer O Reilly s Switching to VoIP provides solutions for the most common VoIP migration challenges So if you re a network professional who is migrating from a traditional telephony system to a modern feature rich network this book is a must have You lldiscover the strengths and weaknesses of circuit switched and packet switched networks how VoIP systems impact network infrastructure as well as solutions for common challenges involved with IP voice migrations Among the challenges discussed and projects presented

building a softPBX configuring IP phones ensuring quality of service scalability standards compliance topological considerations coordinating a complete system switchover migrating applications like voicemail and directory services retro interfacing to traditional telephony supporting mobile users security and survivability dealing with the challenges of NAT To help you grasp the core principles at work Switching to VoIP uses a combination of strategy and hands on how to that introduce VoIP routers and media gateways various makes of IP telephone equipment legacy analog phones IPTables and Linux firewalls and the Asterisk open source PBX software by Digium You ll learn how to build an IP based or legacy compatible phone system and voicemail system complete with e mail integration while becoming familiar with VoIP protocols and devices Switching to VoIP remains vendor neutral and advocates standards not brands Some of the standards explored include SIP H 323 SCCP and IAX Voice codecs 802 3af Type of Service IP precedence DiffServ and RSVP 802 1a b g WLAN If VoIP has your attention like so many others then Switching to VoIP will help you build your own system install it and begin making calls It s the only thing left between you and a modern telecom network *Computerworld* ,2003-05-12 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Computerworld** ,2005-01-17 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **Business Week** ,2004 Consultants and Consulting Organizations Directory ,2007 **Network Magazine** ,2005 Bloomington/Spencer White & Yellow Pages ,2002 Bloomington Ellettsville Gosport Lake Monroe Nashville Patricksburg Poland Smithville Spencer Stanford Cloverdale Ninevah Trafalgar White pages coverage only for Morgantown **Voice & Data** ,2007 Who is who on the Bulgarian Computer Market ,2007 **Business Publication Advertising Source** ,2003-11 Southern African Wireless Communications ,2005

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## **Table of Contents Ip Telephony Configuration Guide Avaya**

1. Understanding the eBook Ip Telephony Configuration Guide Avaya
  - The Rise of Digital Reading Ip Telephony Configuration Guide Avaya
  - Advantages of eBooks Over Traditional Books
2. Identifying Ip Telephony Configuration Guide Avaya
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ip Telephony Configuration Guide Avaya
  - User-Friendly Interface

4. Exploring eBook Recommendations from Ip Telephony Configuration Guide Avaya
  - Personalized Recommendations
  - Ip Telephony Configuration Guide Avaya User Reviews and Ratings
  - Ip Telephony Configuration Guide Avaya and Bestseller Lists
5. Accessing Ip Telephony Configuration Guide Avaya Free and Paid eBooks
  - Ip Telephony Configuration Guide Avaya Public Domain eBooks
  - Ip Telephony Configuration Guide Avaya eBook Subscription Services
  - Ip Telephony Configuration Guide Avaya Budget-Friendly Options
6. Navigating Ip Telephony Configuration Guide Avaya eBook Formats
  - ePub, PDF, MOBI, and More
  - Ip Telephony Configuration Guide Avaya Compatibility with Devices
  - Ip Telephony Configuration Guide Avaya Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ip Telephony Configuration Guide Avaya
  - Highlighting and Note-Taking Ip Telephony Configuration Guide Avaya
  - Interactive Elements Ip Telephony Configuration Guide Avaya
8. Staying Engaged with Ip Telephony Configuration Guide Avaya
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ip Telephony Configuration Guide Avaya
9. Balancing eBooks and Physical Books Ip Telephony Configuration Guide Avaya
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ip Telephony Configuration Guide Avaya
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ip Telephony Configuration Guide Avaya
  - Setting Reading Goals Ip Telephony Configuration Guide Avaya
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ip Telephony Configuration Guide Avaya
  - Fact-Checking eBook Content of Ip Telephony Configuration Guide Avaya
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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