



# 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

**Theodore Wallingford**



## **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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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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