



# 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

# Avaya Ip Telephony Implementation Guide 2015

**Stephanie Carhee, Cisco Systems**



## **Avaya Ip Telephony Implementation Guide 2015:**

*The Road to IP Telephony* Stephanie Carhee, Cisco Systems, 2004-06-28 A complete IP Telephony migration planning guide Includes Steps to Success Poster It s everyone s must have This is a reference book for the entire project team who works on the deployment of an IP Telephony solution Take advantage of best practices Includes more than 200 best practices lessons learned and tips for getting you through your IP Telephony deployment successfully Minimize risk and learn from the mistakes of others Read the list of the top 10 things that can go wrong during an IP Telephony deployment Ask the right questions Get the project team thinking and collaborating together with Stephanie s Checklist of Questions to Ask the Project Team Use proven planning tools Work from sample checklists templates project plans and workflow documents to guide your planning process Keep the Steps to Success on the minds of your project team Use the enclosed poster which illustrates every major step associated with an IP Telephony deployment There is no better path to the successful implementation of a new technology than to follow in the experienced footsteps of an organization that has already been there The Road to IP Telephony tells you how Cisco Systems successfully moved its own organization to a converged enterprise wide network You will learn the implementation and operational processes what worked what didn t work and how to develop your own successful methodology After presenting this topic to hundreds of Cisco customers including Fortune 500 companies Stephanie Carhee consistently encountered the same question If I decide to move to IP Telephony where do I begin and what can I do to ensure that I do it right the first time Although the needs of every enterprise are different some things are universal planning communication teamwork and understanding your user s requirements are as important as technical expertise The Road to IP Telephony shares with you everything you need to know about managing your deployment It starts with where to begin including what needs to be addressed before you even begin the planning process to building your project team Key best practices are also offered to help you set the project s pace and schedule get your users on board identify a migration strategy develop a services and support strategy and work toward the final PBX decommission Cisco IT wants to share its implementation experience with Cisco customers and partners to aide in the deployment practices of new Cisco technologies While conducting our own company wide cutover we learned a great deal about what to do and what not to do This book shares our experiences Brad Boston Senior Vice President and Chief Information Officer Cisco Systems Inc This volume is in the Network Business Series offered by Cisco Press Books in this series provide IT executives decision makers and networking professionals with pertinent information on today s most important technologies and business strategies **The Road to IP Telephony** ,2004 *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'll discover 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, 802.11a/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.

*Packet Guide to Voice Over IP*, Bruce Hartpence, 2013. A system administrator's guide to VoIP technologies. Cover Cisco IP Telephony, 2004. **Implementing Voice over IP**, Bhumi Khasnabish, 2003-07-18. Im Mittelpunkt der Diskussion stehen hier existierende und neue Technologien für die Vermittlung von Sprachverkehr über das Internet Protocol (IP). Bis vor kurzem stammte der Datenverkehr über Kommunikationsnetzwerke größtenteils aus herkömmlich vermittelten Telefonverbindungen. Zukünftig wird dieser Sprachverkehr durch ein riesiges Volumen paketvermittelter Daten (Text und Audiodateien, Streaming Video usw.) weit in den Schatten gestellt. Telefongespräche werden dann über Internetprotokolle vermittelt. Hier erhalten Sie eine detaillierte Einführung in den Aufbau eines effizienten VoIP Netzwerkes, erläutert Prototyping und Leistungsmessung in solchen Netzwerken, besprochen werden auch Aspekte des Quality of Service (QoS).

*PBX Systems for IP Telephony*, 2002. Calls all telecom

managers datacom managers with voice responsibilities Call Center managers VoIP implementers network integrators product and service developers industry analysts Clear and precise analysis and discussion of PBX system design and capabilities Allan Sulkin has a unique ability to explain complex systems in easily understandable terms Joe Licata President Siemens Enterprise Networks A welcome addition to the bookshelf for anyone interested in the evolving IP PBX system Voice and data communications managers alike will greatly benefit from this text Michael Thurk Avaya Group Vice President Systems Allan Sulkin's solid expertise and critical insight has been a valuable resource for the telecommunications community for over 20 years He is uniquely qualified to articulate the very complex subject of PBX and IP telephony Kanji Suzuki former EVP of NEC America and current president and CEO of NEC Infrontia Incorporation The most efficient and economical ways to bring enterprise communication systems into the Digital Age are in this guide written by the foremost analyst in the market space In PBX Systems for IP Telephony Allan Sulkin consultant and advisor to Avaya Siemens Cisco NEC Alcatel and other world class companies evaluates technologies markets and best practices for enterprise voice systems messaging and customer contact centers The heart and brains of your communications network the PBX Private Branch Exchange can be the vital link or the missing link that interfaces businesses and their customers This guide from the recognized expert in telephony systems provides answers Whether you need to IP enable a PBX system for a small business make complex choices for the advanced call center or gain the expertise to integrate a variety of communication systems into a state of the art foundation for your e business vision PBX Systems for IP Telephony should be your first choice Here's why no one knows PBX systems and markets better than the author and no one is better at explaining them This comprehensive resource supplies nuts and bolts information on costs performance risks and other real world considerations difficult to research You get insights into the potential strengths and weaknesses of next generation PBX systems You'll consult the consultant to the system designers for practical advice on systems that fit your needs and your future There's no more business aware or user friendly guide anywhere to converging your voice systems with your IP based data systems When it comes to the PBX the question often seems to be Who's job is it anyway With this guidebook you'll be ready to take the responsibility and get the credit

PBX Systems for IP Telephony Allan Sulkin, 2001-12-22 Calling all telecom managers datacom managers with voice responsibilities Call Center managers VoIP implementers network integrators product and service developers industry analysts Clear and precise analysis and discussion of PBX system design and capabilities Allan Sulkin has a unique ability to explain complex systems in easily understandable terms Joe Licata President Siemens Enterprise Networks A welcome addition to the bookshelf for anyone interested in the evolving IP PBX system Voice and data communications managers alike will greatly benefit from this text Michael Thurk Avaya Group Vice President Systems Allan Sulkin's solid expertise and critical insight has been a valuable resource for the telecommunications community for over 20 years He is uniquely qualified to articulate the very complex subject of PBX and IP telephony Kanji Suzuki former EVP of

NEC America and current president and CEO of NEC Infrontia Inc The most efficient and economical ways to bring enterprise communication systems into the Digital Age are in this guide written by the foremost analyst in the market space In PBX Systems for IP Telephony Allan Sulkin consultant and advisor to Avaya Siemens Cisco NEC Alcatel and other world class companies evaluates technologies markets and best practices for enterprise voice systems messaging and customer contact centers The heart and brains of your communications network the PBX Private Branch Exchange can be the vital link or the missing link that interfaces businesses and their customers This guide from the recognized expert in telephony systems provides answers Whether you need to IP enable a PBX system for a small business make complex choices for the advanced call center or gain the expertise to integrate a variety of communication systems into a state of the art foundation for your e business vision PBX Systems for IP Telephony should be your first choice Here s why No one knows PBX systems and markets better than the author and no one is better at explaining them This comprehensive resource supplies nuts and bolts information on costs performance risks and other real world considerations difficult to research You get insights into the potential strengths and weaknesses of next generation PBX systems You ll consult the consultant to the system designers for practical advice on systems that fit your needs and your future There s no more business aware or user friendly guide anywhere to converging your voice systems with your IP based data systems When it comes to the PBX the question often seems to be Who s job is it anyway With this guidebook you ll be ready to take the responsibility and get the credit

**VoIP Monthly Newsletter , Asterisk: The Definitive Guide** Jim Van Meggelen,Russell Bryant,Leif Madsen,2019-06-24 Design a complete Voice over IP VoIP or traditional PBX system with Asterisk even if you have only basic telecommunications knowledge This bestselling guide makes it easy with a detailed roadmap that shows you how to install and configure this open source software whether you re upgrading your existing phone system or starting from scratch Ideal for Linux administrators developers and power users this updated fifth edition shows you how to set up VoIP based private telephone switching systems within the enterprise You ll get up to speed on the features in Asterisk 16 the latest long term support release from Digium This book also includes new chapters on WebRTC and the Asterisk Real time Interface ARI Discover how WebRTC provides a new direction for Asterisk Gain the knowledge to build a simple but complete phone system Build an interactive dialplan using best practices for Asterisk s advanced features Learn how ARI has emerged as the API of choice for interfacing web development languages with Asterisk

**Cisco IP Telephony** Ramesh Kaza,2005 **VoIP Deployment For Dummies** Stephen P. Olejniczak,2008-11-17 So you re in charge of implementing a VoIP phone system for your organization VoIP Deployment For Dummies is a crash course in Voice over Internet Protocol implementation Here s how to analyze your network and implement a VoIP phone system manage and maintain it keep it secure and troubleshoot problems You ll learn how to plan the rollout work with Session Initiation Protocol SIP handle fax issues and keep your users happy Understand how VoIP works common misconceptions about it and the pros and cons for your organization Compare and comprehend

hardware and software choices Discover the options for touch tones and faxing via VoIP systems Analyze network devices IP addresses connections to remote sites and other aspects that will affect VoIP implementation Draw up a test plan check out both voice and fax transmission get a report and schedule the installation Investigate SIP call generation identify the elements understand cancelled calls and re INVITE calls Troubleshoot your system identify call variables trace the source of a problem manage trouble tickets and resolve failures Manage latency jitter and flap and take advantage of Wireshark Find out what to expect when your system goes live Written by an expert with extensive real world experience in VoIP implementation and management VoIP Deployment For Dummies provides the know how you need You ll be able to implement your system and manage any issues proactively which is sure to look good to your boss [Cisco Ip Telephony](#) Ramesh Kaza,2005-02-01 [IP Telephony with H.323](#) Vineet Kumar,Markku Korpi,Senthil Sengodan,2001-05-04 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

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