



**IP Phone Comparison Matrix**  
February 2012

	SPA3021	SPA3022	SPA3024G	SPA3022G	SPA3024G	SPA3022G
<b>FCB Date</b>	Jul-10	Jul-10	Aug-09	Aug-09	Aug-09	Aug-09
<b>List Price</b>	\$65	\$125	\$125	\$164	\$164	\$225
<b>Integral Switch</b>	-	10/100	10/100	10/100	10/100	10/100
<b>Display</b>	None	128 x 64 Monochrome Non-Backlit 3.0 inch	Paper Label	128 x 64 Monochrome Backlit 3.0 inch	128 x 64 Monochrome Backlit 3.0 inch	128 x 64 Monochrome Backlit 3.0 inch
<b>Touchscreen</b>	No	No	No	No	No	No
<b>Number of DNs supported</b>	1	2	8	1	4	8
<b>Programmable (line) keys</b>	1	2- Lighted	8- Lighted	0	4- Lighted	8- Lighted
<b>Programmable (soft) keys</b>	0	4	0	4	4	4
<b>Speakerphone</b>	No	Yes	Yes	Yes	Yes	Yes
<b>Headset Port</b>	No	Yes	Yes	Yes	Yes	Yes
<b>High-definition voice</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>ILBC support</b>	No	No	No	No	No	No
<b>4- or 5-way Navigation cluster</b>	Yes	Yes	No	Yes	Yes	Yes
<b>Headset Hookswitch Control (aka Electronic Hookswitch EHS)</b>	No	No	No	No	No	No
<b>XML/MIDlet applications</b>	No	Yes (Basic)	No	Yes (Basic)	Yes (Basic)	Yes (Basic)
<b>Extension Mobility</b>	No	Yes (in SIP Mode Only)	No	Yes (in SIP Mode Only)	Yes (in SIP Mode Only)	Yes (in SIP Mode Only)
<b>Supports Expansion Module</b>	No	No	Yes	Yes	Yes	Yes
<b>Video Advantage Camera support</b>	No	No	No	No	No	No
<b>Unified Video Camera</b>	No	No	No	No	No	No
<b>Power Budget</b>	SW	SW	SW	SW	SW	SW
<b>IEEE PoE Classification</b>	No PoE Support	No PoE Support	Class 2	Class 2	Class 2	Class 2
<b>Power - other</b>	PA100 Power Adaptor	PA100 Power Adaptor	PA100 Power Adaptor	PA100 Power Adaptor	PA100 Power Adaptor	PA100 Power Adaptor
<b>Signaling Protocols</b>	SIP/SIP	SIP/SIP	SIP/SIP	SIP/SIP	SIP/SIP	SIP/SIP
<b>TR-68154/111 Provisioning</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>UC Manager support</b>	No	No	No	No	No	No
<b>UC Manager Express support</b>	Only with UC500	Only with UC500	Only with UC500	Only with UC500	Only with UC500	Only with UC500
<b>BE3000 support</b>	No	No	No	No	No	No
<b>UC500 support</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>UC500 support</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Hosted Small Business support</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Device License Units required</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>User Connect License</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>Phone User License (CME)</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>Primary SKU*</b>	SPA3021	SPA3022	SPA3024G	SPA3022G	SPA3024G	SPA3022G

**Notes**

- \* "Webband Limited" is supported with optional accessory Cisco headset and/or third-party wired headset
- Headset Hookswitch Control is a headset mobility feature that provides wireless freedom to users at the desktop without need for a mechanical offer.
- Allows user to go offhook, unhook and receive remote ring indication (rings and volume locally controllable).
- Requires SBC firmware; vendor file (adapter cable for use with select headsets and base stations). (See [p09s.com/cisco](#) and [p09s.com/cisco](#) for further details)
- Provides non-Active DECT or BT capability (feature-dependent) to phone. Available Dev: "E", A.S.A. "Electronic Hookswitch"
- Power Budget is for worst case, includes line loss, and is formulated to avoid switch oversubscription. Actual power consumption is often significantly less and is dependent on phone state. Numbers quoted for conference phones are nominal peak. Note: T300 requires power adapter
- Signaling Protocols: SIP - only the SPA3022 and SPA3022G models may be provisioned for use with third-party call control. SIP 2011 phones have a more limited feature set
- T300 (single phone) requires either 800 (optional accessory) T301 (single phone) or 800 (optional accessory) T302 (single phone) (see [http://www.cisco.com/go/ucp09](#))
- T302-EX requires ATEX and CSA certification which is pending. Certification is outside Cisco control. Thus, FCB date is T30 but is targeted for 1st 2010.
- CME 5.5 only supports audio on 890X phones
- CME 5.6 (March 2nd 2011) supports both audio and video on 890X phones

# Cisco Ip Phone Comparison Matrix Talkpoint

**R Barnett**



## **Cisco Ip Phone Comparison Matrix Talkpoint:**

**Developing Cisco IP Phone Services** Darrick Deel, Mark Nelson, Anne Smith, 2002 Create applications that deliver interactive content to Cisco IP Phones Learn information and techniques vital to building and integrating third party services for Cisco IP Phones Understand the development process using XML and HTTP client and server applications to successfully build a service Discover advanced services information about objects advanced runtime generation and other XML development tools Utilize the provided CallManager Simulator to support an IP phone for development purposes Get the most out of your IP phone systems with strategies and solutions direct from the Cisco team Services on Cisco IP Phones help you enhance productivity gain the competitive advantage and even help generate revenue Services are simply applications that run on the phone rather than on a PC or a web browser By developing services tailored to your particular needs you can achieve unlimited goals Cisco AVVID IP Telephony provides an end to end voice over IP solution for enterprises Part of that solution are Cisco IP Phones a family of IP based phones Cisco IP Phones feature a large display an XML micro browser capable of retrieving content from web servers and the ability to deploy custom services tailored to your organization s or enterprise s needs Developing Cisco IP Phone Services uses detailed code samples to explain the tools and processes used to develop custom phone services You ll learn about XML CallManager Cisco IP Phones and the history behind why Cisco chose XML to deploy phone services You ll find detailed information to help you learn how to build a service how to build a directory and how to integrate your service with Cisco CallManager This book complements and expands on the information provided in the Cisco IP Phone Services Software Developer s Kit SDK With the information in this book you can maximize your productivity using the tools provided in the SDK and the custom tools provided on the companion CD ROM Beginner and advanced service developers alike benefit from the information in this book Developing Cisco IP Phone Services represents the most comprehensive resource available for developing services for Cisco IP Phones Companion CD ROM The CD ROM contains the sample services that are covered in the book development utilities from the Cisco IP Phone Services SDK and new tools written specifically for this book such as XML Validator One of the most useful applications on the CD ROM is the CallManager Simulator CM Sim CM Sim significantly lowers the requirements for service development You only need a Windows based PC with CM Sim and a web server running and one Cisco IP Phone 7940 or 7960 This book is part of the Cisco Press Networking Technologies Series which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers **Implementing Cisco IP Telephony and Video, Part 2 (CIPTV2) Foundation Learning Guide (CCNP Collaboration Exam 300-075 CIPTV2)** William Alexander Hannah, Akhil Behl, 2016-03-05 Now fully updated for Cisco s new CIPTV2 300 075 exam Implementing Cisco IP Telephony and Video Part 2 CIPTV2 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

implementing a Cisco Unified Collaboration solution in a multisite environment The authors show how to implement Uniform Resource Identifier URI dialing globalized call routing Intercluster Lookup Service and Global Dial Plan Replication Cisco Service Advertisement Framework and Call Control Discovery tail end hop off Cisco Unified Survivable Remote Site Telephony Enhanced Location Call Admission Control CAC and Automated Alternate Routing AAR and important mobility features They introduce each key challenge associated with Cisco Unified Communications UC multisite deployments and present solutions focused coverage of Cisco Video Communication Server VCS Control the Cisco Expressway Series and their interactions with Cisco Unified Communications Manager 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 best practices based on Cisco Solutions Reference Network Designs and Cisco Validated Designs and illustrate operation and troubleshooting via configuration examples and sample verification outputs This guide is ideal for all certification candidates who want to master all the topics covered on the CIPTV2 300 075 exam Shows how to craft a multisite dial plan that scales allocates bandwidth appropriately and supports QoS Identifies common problems and proven solutions in multisite UC deployments Introduces best practice media architectures including remote conferencing and centralized transcoding Thoroughly reviews PSTN and intersite connectivity options Shows how to provide remote site telephony and branch redundancy Covers bandwidth reservation at UC application level with CAC Explains how to plan and deploy Cisco Device Mobility Extension Mobility and Unified Mobility Walks through deployment of Cisco Video Communication Server and Expressway series including user and endpoint provisioning Covers Cisco UCM and Cisco VCS interconnections Shows how to use Cisco UC Mobile and Remote Access Covers fallback methods for overcoming IP WAN failure Demonstrates NAT traversal for video and IM devices via VCS Expressway Introduces dynamic dial plan learning via GDPR SAD or CCD

*Cisco CallManager Best Practices* Salvatore Collora, Anne Smith, Ed Leonhardt, 2013-05-15 Delivers the proven solutions that make a difference in your Cisco IP Telephony deployment Learn dial plan best practices that help you configure features such as intercom group speed dials music on hold extension mobility and more Understand how to manage and monitor your system proactively for maximum uptime Use dial plan components to reduce your exposure to toll fraud Take advantage of call detail records for call tracing and accounting as well as troubleshooting Utilize the many Cisco IP Telephony features to enable branch site deployments Discover the best ways to install upgrade patch and back up CallManager Learn how backing up to remote media provides both configuration recovery and failure survivability IP telephony represents the future of telecommunications a converged data and voice infrastructure boasting greater flexibility and more cost effective scalability than traditional telephony Having access to proven best practices developed in the field by Cisco IP Telephony experts helps you ensure a solid successful deployment Cisco CallManager Best Practices offers best practice solutions for CallManager and related IP telephony components such as IP phones gateways and applications

Written in short to the point sections this book lets you explore the tips tricks and lessons learned that will help you plan install configure back up restore upgrade patch and secure Cisco CallManager the core call processing component in a Cisco IP Telephony deployment You ll also discover the best ways to use services and parameters directory integration call detail records management and monitoring applications and more Customers inspired this book by asking the same questions time after time How do I configure intercom What s the best way to use partitions and calling search spaces How do I deploy CallManager regionally on my WAN What do all those services really do How do I know how many calls are active How do I integrate CallManager with Active Directory Years of expert experiences condensed for you in this book enable you to run a top notch system while enhancing the performance and functionality of your IP telephony deployment **Cisco**

**CallManager Best Practices** ,2004 IP Telephony Using CallManager Express Lab Portfolio Cheryl A. Schmidt,Ernie Friend,2007 IP Telephony Using CallManager Express Lab Portfolio Cheryl A Schmidt Ernie Friend IP Telephony Using CallManager Express Lab Portfolio provides a hands on approach to learning the basic principles of voice over IP VoIP to build a voice enabled network for the small to medium sized business As you work through the 51 labs in the book you learn how to deploy a basic phone system using a CallManager Express capable router You install configure and customize Cisco R IP Phones to work in an IP Telephony environment as well as with traditional analog telephony devices Each chapter begins with an explanation of the converging technology used within that chapter s labs and where necessary includes a refresher on routing and switching topics so that you can properly set up the labs The collection of labs features clear objectives equipment needs alternative methods and probing questions Additionally the book includes a command reference as one of the six supplemental appendixes All the material has been written and tested with students in a live classroom environment Labs enable you to deploy a progressively more layered VoIP environment as you complete the labs in each chapter Paper exercises help you work through and reinforce your understanding of fundamental topics such as dial plans IP addressing and dial peers Case Study labs present the material in scenarios that combine the methods learned in the previous chapters so that you apply your knowledge to a specific scenario or task Pulling together various concepts simulates the real world environment where things are rarely assigned one step at a time The Lab Portfolio can be used as a supplement to any textbook used to teach CVoice or CallManager Express It can also be used as a standalone resource for anyone wanting to learn the basics of IP Telephony After completing all the exercises and hands on labs in this book you will know how VoIP works and be well prepared to configure the technology in a small to medium sized business Cheryl A Schmidt is a full time faculty member in the Network Engineering Technology department at Florida Community College at Jacksonville FCCJ She has a master s degree in computer and information resource management For the past 10 years Cheryl has been teaching courses such as computer repair CCNA R CCNP R VoIP QoS and wireless Ernie Friend is the Director of Academic Systems at Florida Community College at Jacksonville FCCJ Florida He manages the Network Engineering Technology department at

FCCJ and had previously managed the college's network and computer infrastructure. He has been managing computer and networking departments for more than 14 years at the college and continues to explore and teach the latest networking technologies. Use this Lab Portfolio with Cisco IP Communications Express CallManager Express with Cisco Unity Express ISBN 1 58705 180 X Voice over IP Fundamentals Second Edition ISBN 1 58705 257 1 This book is part of the Networking Technology Series from Cisco Press, the only authorized publisher for Cisco Systems. Category: IP Telephony. Covers CallManager Express 111606. 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 and 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. **Cisco Ip Telephony** Ramesh Kaza, 2005-02-01. Cisco IP Communications Express Christina Hattingh, Danelle Au, Baldwin Choi, 2005. Telephony solutions for the small and medium business, enterprise, branch office, and small office. Detailed information not available in any other resource enables you to deploy IP telephony solutions with maximum efficiency. Building blocks of the product features provide solutions that enhance the operations and productivity of your organization. Numerous examples show you how to configure the comprehensive suite of features available with Cisco IPC Express. Insights from the experts demonstrate how you can enhance your IP telephony.

system with applications such as automated attendant and voice mail Management and troubleshooting tips will help you keep your network up and running smoothly Enterprise branches and small and medium businesses require IP telephony solutions particular to their size Cisco IP Communications IPC Express is the answer a one box solution that provides turnkey operation with an easy to use web based interface for combined voice and data needs Cisco IPC Express delivers a comprehensive suite of telephony features security and applications but how will you use them to your best advantage This book Cisco IP Communications Express provides the detailed information you need to maximize the use of this powerful product suite By reading this book you will learn how Cisco IPC Express and its applications can become a business solution for your office or enterprise The experts from Cisco Systems give you in depth design guidance full configurations and valuable examples to serve as blueprints for your network The feature operation and deployment discussions demonstrate how to configure and customize the system and how to use different product features to achieve your specific business goals Once you deploy your solutions you will be able to maintain your network through the troubleshooting guidance and examples of resolutions to common problems provided in this book Cisco IP Communications Express is a must have for any organization using Cisco CallManager Express or Cisco Unity Express Technology decision makers and network administrators will be armed with relevant information on how to deploy IP communications for their particular business needs IT managers in larger enterprises will benefit from the plans for distributed call processing design for their networks Service providers and resellers will be prepared to sell install configure and troubleshoot Cisco IPC Express based on customer needs Beyond its application in the workspace Cisco IP Communications Express will also prove helpful to those studying for Cisco voice related certifications 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

*Cisco IP Telephony (CIPT)* Cioara,2007-02 *Cisco Unity Fundamentals* Brian Edward Morgan,Moises Gonzalez,2005

Understand how Cisco Unity supports both IP telephony and traditional telephony systems bull Master the support of Cisco Unity features for CallManager Contact Centre and Personal Assistant bull Review Case Studies for design recommendations and troubleshooting suggestions bull Learn about the common pitfalls of existing systems integration and how to avoid downtime

**Cisco Unity Fundamentals** Brian Morgan,Moises Gonzalez,2004-07-06 A comprehensive introduction to deploying configuring and maintaining Cisco Unity Discover the various Cisco Unity integration and deployment solutions as well as the environmental differences between PBX and IP telephony based telephone systems Learn the pitfalls of existing systems integration and how to avoid downtime Maintain a Cisco unified messaging solution by using the book s examples including setups additions message sourcing applications and error reporting Perform the proper installation upgrade and back up of Cisco Unity systems Monitor performance and troubleshoot a Cisco Unity system using the proper tools and

utilities that help you ensure high availability Choose the proper Cisco Unity networking features to deliver messages to other voice messaging systems Cisco Unity is the official unified messaging solution for the Cisco Architecture for Voice Video and Integrated Data AVVID and complements the full range of Cisco IP based voice solutions including Cisco CallManager and Cisco Personal Assistant Cisco Unity Fundamentals provides design and administration goals for migrating from PBX to Cisco IP Telephony as well as working in a mixed PBX Cisco IP Telephony environment You will learn about the transition from the traditional model with separate architectures for voice mail and e mail systems to supporting unified messaging e mail voice and fax messages delivered to a single inbox You will also discover common troubleshooting solutions such as performance monitoring and the importance of data collection for predicting future system requirements Cisco Unity Fundamentals begins by introducing the engineering aspects of Cisco Unity and then moves quickly into the hardware and software platforms Part I focuses on the administration of Cisco Unity describing the features general setup and global settings Part II describes installation and discusses various types of integration with Cisco CallManager and other telephone systems including Session Initiation Protocol SIP proxy Part II also delves into networking with other voice messaging systems After reading Cisco Unity Fundamentals you will understand the system configuration and on going maintenance issues associated with a successful Cisco Unity deployment This book is part of the Cisco Press Fundamentals Series Books in this series introduce networking professionals to new networking technologies covering network topologies example deployment concepts protocols and management techniques

**Cisco IP Telephony** David Lovell,2002      **Cisco IP Telephony** Ramesh Kaza,2005      Implementing Cisco IP Telephony and Video, Part 1 (CIPTV1) Foundation Learning Guide, Third Edition Akhil Behl,Berni Gardiner,Josh Finke,2016 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

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### **Cisco Ip Phone Comparison Matrix Talkpoint Introduction**

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