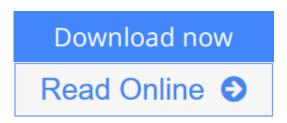# Implementing Cisco IP Telephony and Video, Part 2 (CIPTV2) Foundation Learning Guide (CCNP Collaboration Exam 300-075 CIPTV2) (3rd Edition) (Foundation Learning Guides)

By William Alexander Hannah, Akhil Behl

Implementing Cisco IP Telephony and Video, Part 2 (CIPTV2) Foundation Learning Guide (CCNP Collaboration Exam 300-075 CIPTV2) (3rd Edition) (Foundation Learning Guides) By William Alexander Hannah, Akhil Behl

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

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Editorial Review

About the Author

William Alexander Hannah , CCIE Collaboration #25853, CCSI #32072, along with numerous other Cisco Unified Communications and data center specializations, and VMware certifications, has been an independent IT and telephony consultant, author, and tchnical editor for more than 12 years. He has been a technical trainer for more than 8 years and has taught more than 20 different courses for Cisco. Alex is a Senior Courseware Developer and Subject Matter Expert for Global Knowledge, designing all CCNP Collaboration courseware, labs, and infrastructure. He has done a wide array of IT and telephony consulting for many different companies along the eastern portion of the United States. A former Senior Architect and Senior Presales Engineer for two Cisco Gold Partners in the Southern Virginia area, Alex is now the principal owner of Hannah Technologies LLC, an IT consulting and training firm based in Midlothian, Virginia. Alex has implemented advanced IP telephony and video installations in his area for more than 12 years. When he is not working, he can be found on a boat, wakeboarding with friends and family. He can be reached at alex@hannahtechnologies.com .

Akhil Behl is a Pre-Sales Manager with a leading service provider. His charter involves an overarching technology portfolio encompassing IoT, collaboration, security, infrastructure, service management, cloud, and data center. He has 12+ years of experience working in leadership, advisory, business development, and consulting positions with various organizations; leading global accounts, driving toward business innovation and excellence. Previously, he was in a leadership role with Cisco Systems.

Akhil has a Bachelor of Technology degree in electronics and telecommunications from IP University, India, and a Master's degree in business administration from Symbiosis Institute, India. Akhil holds dual CCIE in Collaboration and Security, PMP, ITIL, VCP, TOGAF, CEH, ISO/IEC 27002, and many other industry certifications.

He has published several research papers in national and international journals, including IEEE, and has been a speaker at prominent industry forums such as Interop, Enterprise Connect, Cloud Connect, Cloud Summit, Cisco Sec-Con, IT Expo, Computer Society of India, Singapore Computer Society, and Cisco Networkers.

Akhil is the author of the following Cisco Press books:

- *CCIE Collaboration Quick Reference*
- *Securing Cisco IP Telephony Networks*
- *Implementing Cisco IP Telephony and Video (Part 1)*

He is a technical editor for Cisco Press and other publications. Akhil can be reached at akbehl@technologist.com .

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