



# **Building Cisco Multilayer Switched Networks (BCMSN) (Authorized Self-Study Guide) (4th Edition)**

*Richard Froom, Balaji Sivasubramanian, Erum Frahim*

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Building Cisco Multilayer Switched Networks (BCMSN)

Fourth Edition

Foundation learning for CCNP 642-812 BCMSN

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Authorized Self-Study Guide: Building Cisco Multilayer Switched Networks (BCMSN), Fourth Edition, is a Cisco® authorized, self-paced learning tool for CCNP® switching foundation learning. You will learn how to create scalable multilayer switched networks by installing, configuring, monitoring, and troubleshooting network infrastructure equipment for a campus switched network and integrate advanced technologies such as VoIP and wireless.

This comprehensive book provides detailed information and easy-to-grasp tutorials on advanced skills in design, configuration, operation, and troubleshooting of enterprise level switched networks, including converged IP data, voice, and Aireospace wireless LAN (WLAN) connectivity. The book assumes only a basic understanding of networking so it provides a great deal of detail on the topics covered.

This book is ideal for certification candidates who are seeking a self-paced tool to learn the material covered in the latest BCMSN exam.

Each chapter opens with the list of topics covered to clearly identify the focus of that chapter. At the end of each chapter, Study Tips list the main points related to the BCMSN exam. A summary of key concepts for quick study and review questions provide you with an opportunity to assess and reinforce your understanding of the material. Real-world case studies help illuminate theoretical concepts.

In addition, chapters that cover Catalyst configurations also include configuration exercises. Most of these are small-scale exercises that can be performed on a single switch. The goal of using small-scale exercises is to enable network professionals to practice the configuration exercises with only a single switch.

Richard Froom, CCIE® No. 5102, is a technical leader for the Data Center, Switching and Wireless (DSW), and Storage Area Networking (SAN) Test Lab at Cisco.

Balaji Sivasubramanian, CCNP, is an escalation engineer for the Gigabit Switching Business Unit (GSBU) at Cisco.

Erum Frahim, CCIE No. 7549, is a senior support engineer working for the Data Center, DSW, and SAN Test Lab at Cisco.

- Provides a thorough introduction to campus switched network construction, support, and security
- Explains the fundamentals of multilayer switched network design and specific design features such as Spanning Tree Protocol, quality of service (QoS), and high availability
- Covers virtual LAN (VLAN) and InterVLAN Routing implementation
- Incorporates wireless client access and configuring campus switches to support voice technologies
- Uses extensive configuration examples and diagrams to solidify the explanations of topics
- Presents self-assessment review questions, configuration exercises, chapter objectives and summaries, and study tips to ensure information recall

Foreword

Introduction

Chapter 1 Introduction to Building Cisco Multilayer Switched Networks

Chapter 2 The Roles of Switches in Designing Cisco Multilayer Switched Networks

Chapter 3 Initial Configuration and Troubleshooting of Cisco Multilayer Switches

Chapter 4 Implementing and Configuring VLANs

Chapter 5 Understanding and Configuring the 802.1D, 802.1s, and 802.1w Spanning Tree

Chapter 6 Adding Resiliency to Spanning Tree Using Advanced Features and Troubleshooting STP Issues

Chapter 7 Enhancing Network Stability, Functionality, Reliability, and Performance Using Advanced Features

Chapter 8 Understanding and Configuring Inter-VLAN Routing

Chapter 9 Understanding and Configuring Multilayer Switching

Chapter 10 Understanding and Implementing Quality of Service in Cisco Multilayer Switched Networks

Chapter 11 Deploying Multicast in the Multilayer Switched Network

Chapter 12 Design Network Resiliency, Redundancy, and High Availability in Multilayer Switched Networks

Chapter 13 Best Practices for Deploying Cisco IP Telephony Using Cisco Catalyst Switches

Chapter 14 Securing Your Multilayer Switched Network to Minimize Service Loss and Data Theft

Chapter 15 Introduction to the Catalyst Switching Architectures

Chapter 16 Designing, Building, and Connecting Cisco Multilayer Switched Networks Using Metro Solutions

Chapter 17 Performance and Connectivity Troubleshooting Tools for Multilayer Switches

Chapter 18 Introducing Wireless into the Campus Network

Review Questions

Appendix A

Answers to Review Questions

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This volume is in the Certification Self-Study Series offered by Cisco Press®. Books in this series provide officially developed self-study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations.

Category: Cisco Certification

Covers: CCNP BCMSN Exam 642-812

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