



Cisco LAN Switching Fundamentals

The essential guide for understanding
Ethernet switched networks

Cisco Lan Switching Fundamentals

Mark A. Sportack



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describes the configuration of management features Coverage includes Layer 2 Layer 3 multicast high availability and traffic management configurations This book is organized by groups of common features with sections marked by shaded tabs for quick reference Information on each feature is presented in a concise format with background configuration and example components The format is organized for easy accessibility to commands and their proper usage saving you hours of research time From the first page the authors zero in on quick facts configuration steps and explanations of configuration options in each Cisco Catalyst switch feature The quick reference format allows you to easily locate just the information you need without having to search through thousands of pages of documentation helping you get your switches up and running quickly and smoothly Whether you are looking for a handy portable reference to more easily configure Cisco Catalyst switches in the field or you are preparing for CCNA CCNP or CCIE certification you will find Cisco LAN Switching Configuration Handbook Second Edition to be an essential resource Steve McQuerry CCIE No 6108 is a technical solutions architect with Cisco focused on data center solutions Steve works with enterprise customers in the midwestern United States to help them plan their data center architectures David Jansen CCIE No 5952 is a technical solutions architect TSA with Cisco focused on Data Center Architectures at Cisco David has more than 20 years of experience in the IT industry David Hucaby CCIE No 4594 is a lead network engineer for the University of Kentucky where he works with healthcare networks based on the Cisco Catalyst ASA PIX FWSM security and VPN product lines Implement switched campus network designs Configure switch prompts IP addresses passwords switch modules file management and administrative protocols Understand how Layer 3 interfaces are used in a switch Configure Ethernet Fast Ethernet Gigabit Ethernet and EtherChannel interfaces Implement VLANs trunking and VTP Operate configure and tune Spanning Tree Protocol STP Handle multicast traffic and interact with multicast routers Streamline access to server and firewall farms with accelerated server load balancing Deploy broadcast suppression user authentication port security and VLAN access lists Configure switch management features Implement QoS and high availability features Transport voice traffic with specialized voice gateway modules inline power and QoS features This book is part of the Networking Technology Series from Cisco Press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers *Cisco CallManager Best Practices* Salvatore Collora, Anne Smith, Ed Leonhardt, 2013-03-27 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

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Cisco LAN Switching Configuration Handbook Mcquerry, 2009

Firewall Fundamentals Wesley J. Noonan, Ido Dubrawsky, 2006 Increasing reliance on the Internet in both work and home environments has radically increased the vulnerability of computing systems to attack from a wide variety of threats Firewall technology continues to be the most prevalent form of protection against existing and new threats to computers and networks A full understanding of what firewalls can do how they can be deployed to maximum effect and the differences among firewall types can make the difference between continued network integrity and complete network or computer failure Firewall Fundamentals introduces readers to firewall concepts and explores various commercial and open source firewall implementations including Cisco Linksys and Linux allowing network administrators and small office home office computer users to effectively choose and configure their devices

Cisco LAN Switching (CCIE Professional Development series) Kennedy Clark, Kevin Hamilton, 1999-08-26 This is the eBook version of the printed book If the print book includes a CD ROM this content is not included within the eBook version The most complete guide to Cisco Catalyst switch network design operation and configuration Master key foundation topics such as high speed LAN

technologies LAN segmentation bridging the Catalyst command line environment and VLANs Improve the performance of your campus network by utilizing effective Cisco Catalyst design configuration and troubleshooting techniques Benefit from the most comprehensive coverage of Spanning Tree Protocol including invaluable information on troubleshooting common Spanning Tree problems Master trunking concepts and applications including ISL 802.1Q LANE and MPOA Understand when and how to utilize Layer 3 switching techniques for maximum effect Understand Layer 2 and Layer 3 switching configuration with the Catalyst 6000 family including coverage of the powerful MSFC Native IOS Mode Cisco LAN Switching provides the most comprehensive coverage of the best methods for designing utilizing and deploying LAN switching devices and technologies in a modern campus network Divided into six parts this book takes you beyond basic switching concepts by providing an array of proven design models practical implementation solutions and troubleshooting strategies Part I discusses important foundation issues that provide a context for the rest of the book including Fast and Gigabit Ethernet routing versus switching the types of Layer 2 switching the Catalyst command line environment and VLANs Part II presents the most detailed discussion of Spanning Tree Protocol in print including common problems troubleshooting and enhancements such as PortFast UplinkFast BackboneFast and PVST Part III examines the critical issue of trunk connections the links used to carry multiple VLANs through campus networks Entire chapters are dedicated to LANE and MPOA Part IV addresses advanced features such as Layer 3 switching VTP and CGMP and IGMP Part V covers real world campus design and implementation issues allowing you to benefit from the collective advice of many LAN switching experts Part VI discusses issues specific to the Catalyst 6000 6500 family of switches including the powerful Native IOS Mode of Layer 3 switching Several features in Cisco LAN Switching are designed to reinforce concepts covered in the book and to help you prepare for the CCIE exam In addition to the practical discussion of advanced switching issues this book also contains case studies that highlight real world design implementation and management issues as well as chapter ending review questions and exercises This book is part of the Cisco CCIE Professional Development Series from Cisco Press which offers expert level instruction on network design deployment and support methodologies to help networking professionals manage complex networks and prepare for CCIE exams

Cisco LAN Switching Configuration Handbook Steve McQuerry CCIE No 6108, 1900 This is the eBook version of the printed book If the print book includes a CD ROM this content is not included within the eBook version Cisco LAN Switching Configuration Handbook Second Edition A concise reference for implementing the most frequently used features of the Cisco Catalyst family of switches Steve McQuerry CCIE No 6108 David Jansen CCIE No 5952 David Hucaby CCIE No 4594 Cisco LAN Switching Configuration Handbook Second Edition is a quick and portable reference guide to the most commonly used features that can be configured on Cisco Catalyst switches Written to be

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