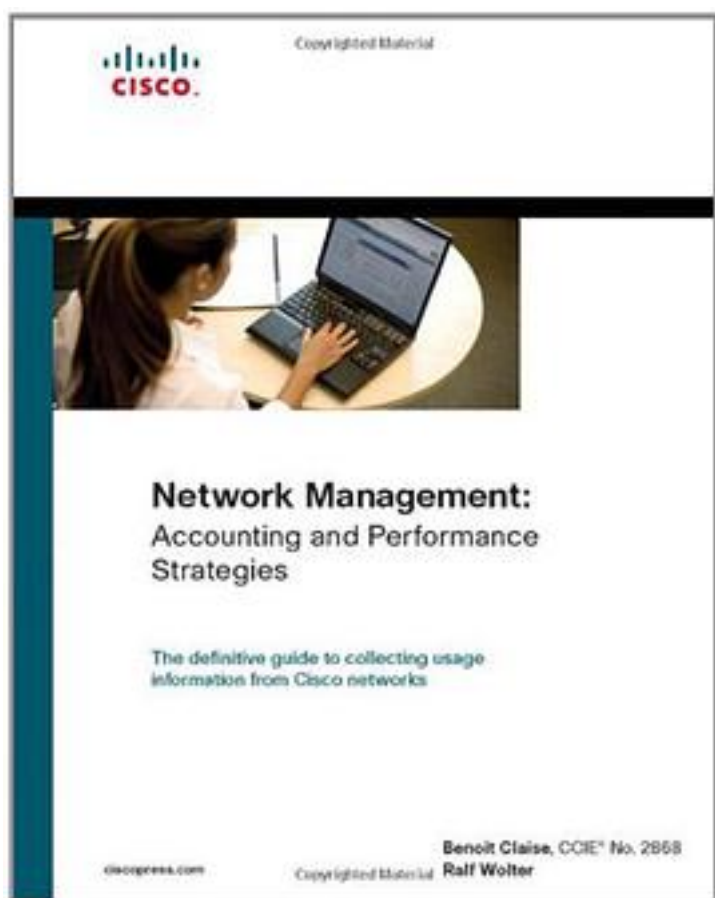# Network Management

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Network Management: Accounting and Performance Strategies The definitive guide to collecting usage information from Cisco networks Benoit Claise, CCIE® No. 2868 Ralf Wolter Understanding network performance and effectiveness is now crucial to business success. To ensure user satisfaction, both service providers and enterprise IT

teams must provide service-level agreements (SLA) to the users of their networks–and then consistently deliver on those commitments. Now, two of the Cisco® leading network performance and accounting experts bring together all the knowledge network professionals need to do so. Network Management: Accounting and Performance Strategies imparts a deep understanding of Cisco IOS® embedded management for monitoring and optimizing performance, together with proven best strategies for both accounting and performance management. Benoit Claise and Ralf Wolter begin by introducing the role of accounting and performance management in today's large-scale data and voice networks. They present widely accepted performance standards and definitions, along with today's best practice methodologies for data collection. Next, they turn to Cisco devices and the Cisco IOS Software, illuminating embedded management and device instrumentation features that enable you to thoroughly characterize performance, plan network enhancements, and anticipate potential problems and prevent them. Network standards, technologies, and Cisco solutions covered in depth include Simple Network Management Protocol (SNMP) and Management Information Bases (MIB), Remote Monitoring (RMON), IP accounting, NetFlow, BGP policy accounting, AAA Accounting, Network Based Application Recognition (NBAR), and IP SLA (formerly known as SAA). For each, the authors present practical examples and hands-on techniques. The book concludes with chapter-length scenarios that walk you through accounting and performance management for five different applications: data network monitoring, capacity planning, billing, security, and voice network performance. Network Management: Accounting and Performance Strategies will be indispensable to every professional concerned with network performance, effectiveness, or profitability, especially NMS/OSS architects, network and service designers, network administrators, and anyone responsible for network accounting or billing. Benoit Claise, CCIE® No. 2868, is a Cisco Distinguished Engineer working as an architect for embedded management and device instrumentation. His area of expertise includes accounting, performance, and fault management. Claise is a contributor to the NetFlow standardization at the IETF in the IPFIX and PSAMP Working Groups. He joined Cisco in 1996 as a customer support engineer in the Technical Assistance Center network management team and became an escalation engineer before joining the engineering team. Ralf Wolter is a senior manager, consulting engineering at Cisco. He leads the Cisco Core and NMS/OSS consulting team for Europe, works closely with corporate engineering, and supports large-scale customer projects. He specializes in device instrumentation related to accounting and performance management. Compare accounting methods and choose the best approach for you Apply network performance best practices to your network Leverage built-in Cisco IOS network management system components to quantify performance Uncover trends in performance statistics to help avoid service degradation before it occurs Identify under use of network paths, so you can improve overall network efficiency Walk through hands-on case studies that address monitoring, capacity planning, billing, security, and voice networks Understand Cisco network performance, deliver on your SLAs, and improve accounting and billing 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.

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