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**A practical resource for deploying quality of service,  
security, IP routing, and VPN services**

# ENHANCED IP SERVICES FOR CISCO NETWORKS

CISCO SYSTEMS  
  
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- Understand VPN security concepts: confidentiality, integrity, origin authentication, non-repudiation, anti-replay, perfect forward secrecy
- Deploy quality of service technologies to protect your mission-critical applications
- Find out how IPsec technology works and how to configure it in IOS
- Learn how to set up a router as a firewall and intrusion detection system
- Gain efficient use of your IP address space with NAT, VLSM, IP unnumbered
- Solve real-world routing problems with redistribution, route filtering, summarization, policy routing
- Enable authentication, authorization, and accounting (AAA) security services with RADIUS and TACACS+ servers

*This book is a part of the Cisco Press Core Series that offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.*

**Category:** Networking

**Covers:** Advanced Cisco IOS services

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# ENHANCED IP SERVICES FOR CISCO NETWORKS

*Enhanced IP Services for Cisco Networks* is a guide to the new enabling and advanced IOS services that build more scalable, intelligent, and secure networks. Networking professionals will gain an understanding of services that help networks support more users, more locations, and more applications. You will learn the technical details necessary to deploy quality of service and VPN technologies, as well as improved security and advanced routing features. These services will allow you to securely extend the network to new frontiers, protect your network from attacks, and enhance network transport with application-level prioritization.

Donald Lee provides a useful and instructive breakdown of each enhanced service: what it is, why you need it, how it works, how to deploy it, how to validate it. This book offers a practical guide to implementing IPsec, the IOS Firewall, and IOS Intrusion Detection System. Also included are advanced routing principles and quality of service features that focus on improving the capability of your network. A good briefing on cryptography fully explains the science that makes VPNs possible. Rather than being another routing book, this is a guide to improving your network's capabilities by understanding and using the sophisticated features available to you in Cisco's IOS software.

Donald C. Lee (CCIE #3262) is a Senior Systems Engineer at Cisco Systems. A graduate of UCLA's electrical engineering program, Donald has more than eight years of experience in the networking industry. He is currently responsible for designing, implementing, and troubleshooting network solutions for several of Cisco's largest Fortune 500 customers.



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