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# CCNP Security VPN 642-648 Quick Reference

Cristian Matei

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**CCNP Security VPN 642-648 Quick Reference**

**Cristian Matei**

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## About the Author

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Partner in Romania. He CCNP Security VPN 642-648 Quick Reference has designed, implemented, and maintained multiple large enterprise networks, covering the Cisco security, routing, switching, service provider, and wireless portfolios of products. Cristian started this journey back in 2005 with Microsoft technology and finished the MCSE Security and MCSE Messaging tracks. He then joined Datanet Systems, where he quickly obtained his Security and Routing & Switching CCIE, CCNP Security VPN 642-648 Quick Reference among other certifications and specializations, such as CCNP, CCSP, and CCDP. Cristian has been a Cisco Certified Systems Instructor (CCSI) since 2007, teaching CCNA, CCNP, and CCSP curriculum courses. In 2009, he received a Cisco Trusted Technical Advisor (TTA) award and became CCNP Security VPN 642-648 Quick Reference certified as a Cisco IronPort Certified Security Professional (CICSP) on E-mail and Web. That same year, he started his collaboration with Internetwork Expert as a technical editor on the CCIE Routing & Switching and Security Workbook series. In 2010, he CCNP Security VPN 642-648 Quick Reference received his ISACA Certified Information Security Manager (CISM) certification. He is currently preparing for Service Provider CCIE and CCDE tracks and can be found as a regular and active member on Internetwork Expert and Cisco forums.

## About the Technical Editor

**Sean Wilkins** is an accomplished networking consultant for SR-W Consulting (<http://www.sr-wconsulting.com>) and has been in the field of IT since the mid 1990s, working with companies such as Cisco, Lucent, Verizon, and AT&T. Sean currently holds certifications with Cisco (CCNP/CCDP), Microsoft (MCSE), and CompTIA CCNP Security VPN 642-648 Quick Reference (A+ and Network+). He also has a master's of science degree in Information Technology with a focus in Network Architecture and Design, a master's of science degree in Organizational Management, a master's certificate in Network Security, a bachelor's of science degree in Computer Networking, and an associate's degree of Applied Science in Computer Information systems. In addition to working as a consultant, Sean spends a lot of his time as a technical writer and editor for various companies.

## Dedications

**To Bianca Mihaela** a beautiful and lovely girl who actually became my wife in 2010. Thank you for loving and supporting me throughout all these years. Your morning smile makes my day.

**To Petr Lapukhov** from Internetwork Expert. His technical mentoring and level of knowledge are

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purely outstanding. I am still waiting for a book release from him; it should break all frontiers.

## **Chapter 1. Evaluating the Cisco ASA VPN Subsystem**

This Quick Reference serves as a quick review for CCNP Security VPN 642-648 Quick Reference the VPN 642-647 v2.0 exam and CCNP Security VPN 642-648 Quick Reference is a great refresher for the virtual private network (VPN) technologies supported on the Cisco Adaptive Security Appliance (ASA). This book covers ASA VPN technologies by using the latest available release of Cisco ASA, which is 8.4(3), the latest version of Adaptive Security Device Manager (ASDM), which is 6.4(7), and the latest versions of Cisco AnyConnect Secure Mobility Client (3.0.x) and Cisco Secure Desktop (3.6.x). This is important to consider because ASA suffered major changes from a command-line interface (CLI) and functionality perspective starting with Version 8.3.x and AnyConnect CCNP Security VPN 642-648 Quick Reference starting with Version 3.0.x.

This chapter reviews the basic functionalities of the ASA, examines how these might interact with VPN technologies, and CCNP Security VPN 642-648 Quick Reference covers some common CCNP Security VPN 642-648 Quick Reference configuration concepts generally applicable to all VPN scenarios.

### **Evaluating Cisco ASA Software Architecture**

#### **Overview**

Cisco ASA was designed as a product to combine Cisco PIX firewalls and Cisco VPN concentrator functions and to add extra security functions built in to the proprietary operating system or through the addition of separate modules, such as Intrusion Prevention and Content Security. The hardware architectures were also engineered with performance, reliability, and scalability in mind. Cisco ASA and PIX run the same proprietary Finesse operating system until software Version 7.x. Starting with Version 8.x, the operating system code used on ASA differs and is based on the Linux kernel.

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