



About this Guide xix

Audience xix

Conventions xix

Related Documents xx

Obtaining Documentation and Submitting a Service Request xxi

CHAPTER 1

Introduction to the AnyConnect Secure Mobility Client 1-1

AnyConnect License Options 1-2

Overview 1-2

AnyConnect Essentials and Premium Licenses 1-3

AnyConnect Mobile License 1-4

AnyConnect Flex License 1-4

Advanced Endpoint Assessment License 1-4

Cisco Secure Mobility for AnyConnect License 1-5

Combining AnyConnect Licenses 1-6

Standalone and WebLaunch Options 1-6

Configuration and Deployment Overview 1-7

AnyConnect Secure Mobility Feature Configuration Guidelines 1-7

API 1-8

AnyConnect Accessibility 1-8

CHAPTER 2

Deploying the AnyConnect Secure Mobility Client 2-1

Introduction to the AnyConnect Client Profiles 2-1

Creating and Editing an AnyConnect Client Profile Using the Integrated AnyConnect Profile Editor 2-2

Deploying AnyConnect Client Profiles 2-4

Deploying AnyConnect Client Profiles from the ASA 2-4

Deploying Client Profiles Created by the Standalone Profile Editor 2-5

Web Deploying AnyConnect 2-5

AnyConnect File Packages for ASA Deployment 2-7

Ensuring Successful AnyConnect Installation 2-7

Setting Up the Endpoint to Accept Self-signed Certificates 2-7

Exempting AnyConnect Traffic from Network Address Translation (NAT) 2-8

Configuring the ASA for DES-Only SSL Encryption Not Recommended 2-13

Connecting with Mobile Broadband Cards	2-13
Disabling Group Policy Settings	2-14
Modifying Installer Behavior When Web Deploying	2-14
Configuring the ASA to Download AnyConnect	2-14
Configure a Method of Address Assignment	2-15
Prompting Remote Users to Download AnyConnect	2-15
User Control Over Upgrade	2-16
Deferred Update Custom Attributes	2-16
Adding Attributes in ASDM	2-17
Deferred Update GUI	2-18
Enabling Modules for Additional Features	2-18
Enabling IPsec IKEv2 Connections	2-19
Predeploying an IKEv2-Enabled Client Profile	2-20
Predeploying AnyConnect	2-21
Predeployment Package File Information	2-22
Predeploying to Windows Computers	2-22
Using the ISO File	2-22
Guidelines and Limitations	2-23
Resetting the System MTU	2-23
Turning on ActiveX Control	2-23
Using the Install Utility for Predeployment	2-23
Using an SMS to Predeploy AnyConnect Modules	2-24
Installing AnyConnect Modules for Windows (Recommended Order)	2-26
Uninstalling AnyConnect Modules for Windows (Recommended Order)	2-26
Packaging the MSI Files for Enterprise Software Deployment Systems	2-27
Instructing Users to Install Network Access Manager and Web Security as Stand-Alone Applications	2-28
Modifying Installer Behavior During Pre-deploy	2-29
Predeploying to Linux and Mac OS X Computers	2-29
Modifying Installer Behavior	2-29
Disabling Customer Experience Feedback Module	2-30
Installing Modules for Linux and Mac OS X (Recommended Order)	2-30
Uninstalling Modules for Linux and Mac OS X (Recommended Order)	2-30
Restricting Applications on System	2-31
Verifying Server Certificates with Firefox	2-31
AnyConnect File Information	2-31
Filenames of Modules on the Endpoint Computer	2-31
Locations to Deploy the AnyConnect Profiles	2-33
User Preferences Files Installed on the Local Computer	2-35

Using Standalone AnyConnect Profile Editor	2-35
System Requirements for Standalone Profile Editor	2-36
Supported Operating Systems	2-36
Java Requirement	2-36
Browser Requirement	2-36
Required Hard Drive Space	2-36
Installing the Standalone AnyConnect Profile Editor	2-36
Modifying the Standalone AnyConnect Profile Editor Installation	2-37
Uninstalling the Standalone AnyConnect Profile Editor	2-37
Creating a Client Profile Using the Standalone Profile Editor	2-37
Editing a Client Profile Using the Standalone Profile Editor	2-38

CHAPTER 3

Configuring VPN Access 3-1

Configuring IP Addresses for AnyConnect Clients	3-2
IP Address Assignment Policies	3-2
Configuring IPv4 and IPv6 Address Assignments using ASDM	3-3
Internal IP Address Pools	3-3
Configuring Local IPv4 Address Pools Using ASDM	3-4
Configuring Local IPv6 Address Pools Using ASDM	3-4
Assigning an IP Address to an AnyConnect Connection	3-5
Assigning IP Addresses using Internal Address Pools	3-5
Assigning IP addresses using DHCP	3-6
Assigning IP Addresses to a Local User	3-6
Configuring IPv4 or IPv6 Traffic to Bypass the VPN	3-8
Creating and Editing an AnyConnect Profile	3-9
Deploying the AnyConnect Profile	3-12
Configuring VPN Load Balancing	3-12
Configuring Start Before Logon	3-13
Installing Start Before Logon Components (Windows Only)	3-14
Start Before Logon Differences Between Windows Versions	3-14
Enabling SBL in the AnyConnect Profile	3-14
Enabling SBL on the Security Appliance	3-15
Troubleshooting SBL	3-15
Configuring Start Before Logon (PLAP) on Windows 7 and Vista Systems	3-16
Installing PLAP	3-16
Logging on to a Windows 7 or Windows Vista PC using PLAP	3-17
Disconnecting from AnyConnect Using PLAP	3-21
Trusted Network Detection	3-21
Trusted Network Detection Requirements	3-21

Configuring Trusted Network Detection	3-21
TND and Users with Multiple Profiles Connecting to Multiple Security Appliances	3-23
Always-on VPN	3-23
Always-on VPN Requirements	3-24
Adding Load-Balancing Backup Cluster Members to the Server List	3-26
Configuring Always-on VPN	3-27
Configuring a Policy to Exempt Users from Always-on VPN	3-27
Disconnect Button for Always-on VPN	3-28
Disconnect Button Requirements	3-29
Enabling and Disabling the Disconnect Button	3-29
Connect Failure Policy for Always-on VPN	3-30
Connect Failure Policy Requirements	3-31
Configuring a Connect Failure Policy	3-31
Captive Portal Hotspot Detection and Remediation	3-32
Captive Portal Remediation Requirements	3-32
Captive Portal Hotspot Detection	3-32
Captive Portal Hotspot Remediation	3-33
Configuring Support for Captive Portal Hotspot Remediation	3-33
If Users Cannot Access a Captive Portal Page	3-33
False Captive Portal Detection	3-34
Client Firewall with Local Printer and Tethered Device Support	3-34
Usage Notes about Firewall Behavior	3-35
Deploying a Client Firewall for Local Printer Support	3-35
Tethered Devices Support	3-37
New Installation Directory Structure for Mac OS X	3-37
ScanCenter Hosted Configuration Support for Web Security Client Profile	3-37
Configuring Split Tunneling	3-38
Configuring DNS and WINS Servers for AnyConnect	3-40
Configuring a DNS Server for an Internal Group Policy	3-40
Configuring WINS Servers for an Internal Group Policy	3-40
Split DNS Functionality Enhancement	3-41
Using AnyConnect Logs to Verify	3-42
Checking Which Domains Use Split DNS	3-42
Configuring Split DNS	3-42
Network Roaming	3-43
Prerequisite	3-43
Configuring Network Roaming Between IPv4 and IPv6 Networks	3-43
Configuring Certificate Enrollment using SCEP	3-44

Information about Certificate Enrollment using SCEP	3-44
Supported Enrollment Methods	3-44
SCEP Enrollment Steps	3-45
Automatic Certificate Requests	3-45
Manual Certificate Requests	3-46
CA Password	3-46
Windows Certificate Warning	3-47
Guidelines and Limitations for Certificate Enrollment using SCEP	3-47
Prerequisites for Certificate Enrollment using SCEP	3-47
Using a Windows 2008 Server Certificate Authority for SCEP	3-47
Configuring Certificate Enrollment using SCEP	3-49
Configuring a VPN Client Profile for SCEP Enrollment	3-49
Configuring the ASA to support SCEP Proxy	3-50
Configuring the ASA to support SCEP Legacy	3-50
Configuring Certificate-Only Authentication on the ASA	3-51
DAP Records for SCEP	3-51
Configuring Certificate Expiration Notice	3-51
Configuring a Certificate Store	3-51
Controlling the Certificate Store on Windows	3-52
Creating a PEM Certificate Store for Mac and Linux	3-54
Restrictions for PEM File Filenames	3-54
Storing User Certificates	3-55
Configuring Certificate Matching	3-55
Certificate Key Usage Matching	3-55
Extended Certificate Key Usage Matching	3-56
Custom Extended Match Key	3-56
Certificate Distinguished Name Mapping	3-56
Default Certificate Matching	3-58
Certificate Matching Example	3-58
Prompting Users to Select Authentication Certificate	3-59
Users Configuring Automatic Certificate Selection in AnyConnect Preferences	3-59
Configuring a Server List	3-60
Configuring Connections for Mobile Devices	3-63
Configuring a Backup Server List	3-64
Configuring Connect On Start-up	3-64
Configuring Auto Reconnect	3-65
Local Proxy Connections	3-66
Local Proxy Connections Requirements	3-66
Configuring Local Proxy Connections	3-66

Optimal Gateway Selection	3-66
Optimal Gateway Selection Requirements	3-67
Configuring Optimal Gateway Selection	3-67
OGS and Sleep Mode	3-68
OGS and Proxy Detection	3-69
Writing and Deploying Scripts	3-69
Scripting Requirements and Limitations	3-69
Writing, Testing, and Deploying Scripts	3-71
Configuring the AnyConnect Profile for Scripting	3-72
Troubleshooting Scripts	3-72
Authentication Timeout Control	3-73
Authentication Timeout Control Requirements	3-73
Configuring Authentication Timeout	3-73
Proxy Support	3-73
Configuring the Client to Ignore Browser Proxy Settings	3-74
Private Proxy	3-74
Private Proxy Requirements	3-74
Configuring a Group Policy to Download a Private Proxy	3-74
Internet Explorer Connections Tab Lockdown	3-75
Proxy Auto-Configuration File Generation for Clientless Support	3-75
Using a Windows RDP Session to Launch a VPN Session	3-76
AnyConnect over L2TP or PPTP	3-77
Configuring AnyConnect over L2TP or PPTP	3-77
Instructing Users to Override PPP Exclusion	3-78
AnyConnect VPN Profile Editor Parameter Descriptions	3-79
AnyConnect Profile Editor, Preferences (Part 1)	3-79
AnyConnect Profile Editor, Preferences (Part 2)	3-81
AnyConnect Profile Editor, Backup Servers	3-85
AnyConnect Profile Editor, Certificate Matching	3-85
AnyConnect Profile Editor, Certificate Enrollment	3-87
AnyConnect Profile Editor, Mobile Policy	3-88
AnyConnect Profile Editor, Server List	3-89
AnyConnect Profile Editor, Add/Edit Server List	3-89

CHAPTER 4

Configuring Network Access Manager 4-1

Introduction	4-1
Suite B and FIPS	4-2
Single Sign On "Single User" Enforcement	4-2
Configuring Single Sign-On Single User Enforcement	4-3

System Requirements for the Network Access Manager	4-3
Licensing and Upgrading Requirements	4-4
Deploying Network Access Manager	4-4
Creating a Network Access Manager Profile	4-4
Adding a New Profile from ASDM	4-4
Configuring a Network Access Manager Profile	4-5
Client Policy Window	4-5
Authentication Policy Window	4-8
Networks Window	4-10
Networks - Media Type Page	4-11
Network Connection Notes	4-13
Networks - Security Level Page	4-13
Configuring Authenticating Network	4-14
Configuring Open Network	4-16
Configuring Shared Key Network	4-16
Networks - Network Connection Type Pane	4-18
Networks - User or Machine Authentication Page	4-19
EAP Overview	4-21
Configuring EAP-GTC	4-21
Configuring EAP-TLS	4-22
Configuring EAP-TTLS	4-22
Configuring PEAP Options	4-24
Configuring EAP-FAST Settings	4-25
Configuring LEAP Settings	4-27
Defining Networks Credentials	4-27
Configuring Trusted Server Validation Rules	4-32
Network Groups Window	4-33

CHAPTER 5

Configuring Host Scan 5-1

Host Scan Workflow	5-2
Features Enabled with the AnyConnect Posture Module	5-3
Assessment	5-3
Policies	5-4
Keystroke Logger Detection	5-5
Host Emulation Detection	5-6
Keystroke Logger Detection and Host Emulation Detection Supported Operating Systems	5-6
Cache Cleaner	5-6
Host Scan	5-7
Basic Host Scan Functionality	5-7

Endpoint Assessment	5-8
Advanced Endpoint Assessment - Antivirus, Antispyware, and Firewall Remediation	5-8
Host Scan Support Charts	5-9
Configuring Antivirus Applications for Host Scan	5-9
Integration with Dynamic Access Policies	5-9
Difference Between the Posture Module and the Standalone Host Scan Package	5-10
AnyConnect Posture Module Dependencies and System Requirements	5-10
Dependencies	5-10
Host Scan, CSD, and AnyConnect Secure Mobility Client Interoperability	5-10
System Requirements	5-11
Licensing	5-11
Entering an Activation Key to Support Advanced Endpoint Assessment	5-11
Host Scan Packaging	5-12
Which Host Scan Image Gets Enabled When There is More than One Loaded on the ASA?	5-12
Deploying the AnyConnect Posture Module and Host Scan	5-13
Pre-Deploying the AnyConnect Posture Module	5-13
Installing and Enabling Host Scan on the ASA	5-14
Downloading the Latest Host Scan Engine Update	5-14
Installing or Upgrading Host Scan	5-14
Enabling or Disabling Host Scan on the ASA	5-16
Enabling or Disabling CSD on the ASA	5-16
Host Scan and CSD Upgrades and Downgrades	5-17
Determining the Host Scan Image Enabled on the ASA	5-17
Uninstalling Host Scan	5-17
Uninstalling the Host Scan Package	5-17
Uninstalling CSD from the ASA	5-17
Assigning AnyConnect Posture Module to a Group Policy	5-18
Host Scan Logging	5-18
Configuring the Logging Level for All Posture Module Components	5-19
Posture Module Log Files and Locations	5-19
Using a BIOS Serial Number in a DAP	5-20
Specifying the BIOS as a DAP Endpoint Attribute	5-20
How to Obtain BIOS Serial Numbers	5-21

CHAPTER 6
Configuring Web Security 6-1

System Requirements	6-2
AnyConnect Web Security Module	6-2
ASA and ASDM Requirements	6-2

System Limitations	6-2
Licensing Requirements	6-3
Web Security Deployed as a Standalone Component	6-3
Web Security Deployed as a Component of AnyConnect	6-3
User Guideline for Web Security Behavior with IPv6 Web Traffic	6-3
Installing the AnyConnect Web Security Module for Use with an ASA	6-3
Installing the AnyConnect Web Security Module for Use without an ASA	6-4
Installing the Web Security Module on Windows Using the AnyConnect Installer	6-4
Installing the Web Security Module on Mac OS X Using the AnyConnect Installer	6-5
Installing the Web Security Module on Windows Using the Command Line Installation	6-7
Creating an AnyConnect Web Security Client Profile	6-7
Configuring Cisco Cloud Web Security Scanning Proxies in the Client Profile	6-8
Updating the Scanning Proxy List	6-9
Default Scanning Proxy Settings in a Web Security Client Profile	6-10
Displaying or Hiding Scanning Proxies from Users	6-10
Selecting a Default Scanning Proxy	6-11
How Users Get Connected to Scanning Proxies	6-11
Specifying an HTTP(S) Traffic Listening Port	6-12
Excluding Endpoint Traffic from Web Scanning Service	6-12
Host Exceptions	6-13
Proxy Exceptions	6-14
Static Exceptions	6-14
Configuring Web Scanning Service Preferences	6-15
Configuring User Controls and Calculating Fastest Scanning Proxy Response Time	6-15
Configuring Secure Trusted Network Detection	6-16
Configuring Authentication and Sending Group Memberships to the Cisco Cloud Web Security Proxy	6-17
Configuring Advanced Web Security Settings	6-20
Configuring KDF Listening Port	6-20
Configuring Service Communication Port	6-21
Configuring Connection Timeout	6-21
Configuring DNS Cache Failure Lookup	6-22
Configuring Debug Settings	6-22
Configuring Fail Behavior	6-22
Web Security Logging	6-22
Web Security Client Profile Files	6-22
Exporting the Plain Text Web Security Client Profile File	6-23
Exporting the Plain Text Web Security Client Profile File for DART Bundle	6-23
Editing and Importing Plain Text Web Security Client Profile Files from ASDM	6-23

Exporting the Obfuscated Web Security Client Profile File	6-24
Creating a Web Security Client Profile with the Standalone Editor	6-24
Configuring Split Exclusion Policy for Web Security	6-24
Configuring Cisco ScanCenter Hosted Configuration Support for Web Security Client Profile	6-25
Secure Trusted Network Detection	6-26
Switching off and Enabling the Cisco AnyConnect Web Security Agent	6-27
Switching Off and Enabling Filters using Windows	6-27
Switching Filters On and Off Using Mac OS X	6-27

CHAPTER 7

Configuring AnyConnect Telemetry to the WSA 7-1

System Requirements	7-1
ASA and ASDM Requirements	7-2
AnyConnect Secure Mobility Client Module Requirements	7-2
Requirements for Cisco IronPort Web Security Appliance Interoperability	7-2
Enable SenderBase on Cisco IronPort Web Security Appliance	7-2
Installing the AnyConnect Telemetry Module	7-3
Quick-Deploy of the AnyConnect Telemetry Module	7-3
AnyConnect Telemetry Module Interoperability	7-5
AnyConnect VPN Module	7-5
AnyConnect Posture Module	7-5
Third-Party Antivirus Software	7-5
Telemetry Activity History Repository	7-6
Telemetry Reports	7-7
Possible Transference of Personal Information by Telemetry Module	7-7
Telemetry Workflow	7-8
URL Encryption	7-8
Telemetry Report Encryption	7-9
Configuring the Telemetry Client Profile	7-9
Configuration Profile Hierarchy	7-11

CHAPTER 8

Using Cisco AnyConnect Customer Experience Feedback Module 8-1

Configuring Customer Experience Feedback Module	8-2
Disabling During Installation	8-2

CHAPTER 9

NGE, FIPS and Additional Security 9-1

Information About NGE and AnyConnect	9-1
Requirements	9-2
Guidelines and Limitations	9-3

About AnyConnect Modules with NGE	9-4
Enabling FIPS for the AnyConnect Core VPN Client	9-4
Enabling FIPS for Windows Clients Using an MST File	9-5
Enabling FIPS and other Local Policy Parameters in an MST File	9-5
Enabling FIPS and Other Parameters with the Enable FIPS Tool	9-5
Changing Local Policy Parameters Manually in the Local Policy	9-6
Avoiding Endpoint Problems from AnyConnect FIPS Registry Changes	9-7
Enabling Software and Profile Locks	9-8
XML Tags for the Software and Profile Locks	9-10
Software Lock Use Cases	9-11
Software and Profile Lock Example	9-12
AnyConnect Local Policy Parameters and Values	9-13
Local Policy File Example	9-16
Enabling FIPS for the Network Access Manager	9-16
Enforcing FIPS Mode in the Network Access Manager	9-16
Installing the 3eTI Driver	9-17
Important Notes	9-17
3eTI CKL Driver Installer Overview	9-17
Running the Installer without Using Command-Line Options	9-19
Uninstalling Previous 3eTI Driver Software	9-22
Silent Driver Installation for Enterprise Deployment	9-23
Installing the Driver without a Previously Installed Network Adapter	9-23
Manually Upgrading the 3eTI Driver Software	9-24
Obtaining the 3eTI Driver Installer Software	9-29

CHAPTER 10

Interoperability Guidelines and Requirements 10-1

Using Quarantine to Restrict Non-Compliant Clients	10-1
Quarantine Requirements	10-1
Configuring Quarantine	10-2
Using Microsoft Active Directory to Add the Security Appliance to the List of Internet Explorer Trusted Sites for Domain Users	10-2
Configuring CSA Interoperability with AnyConnect and Cisco Secure Desktop	10-3
Port Information for AnyConnect and the Legacy VPN Client	10-4
Differences in Client Split Tunneling Behavior for Traffic within the Subnet	10-4

CHAPTER 11

Managing VPN Authentication 11-1

Configuring Certificate-only Authentication	11-1
AnyConnect Smart Card Support	11-2

Avoiding SHA 2 Certificate Validation Failure	11-2
SDI Token (SoftID) Integration	11-4
Comparing Native SDI with RADIUS SDI	11-4
Using SDI Authentication	11-5
Categories of SDI Authentication Exchanges	11-7
Normal SDI Authentication Login	11-7
New User, Clear PIN, and New PIN Modes	11-7
Getting a New PIN	11-8
“Next Passcode” and “Next Token Code” Challenges	11-9
Ensuring RADIUS/SDI Proxy Compatibility with AnyConnect	11-9
AnyConnect and RADIUS/SDI Server Interaction	11-10
Configuring the Security Appliance to Support RADIUS/SDI Messages	11-10

CHAPTER 12

Customizing and Localizing the AnyConnect Client and Installer 12-1

Customizing AnyConnect	12-1
What Can Be Customized?	12-2
Installer	12-2
AnyConnect UI	12-2
Replacing Individual GUI Components with your Custom Components	12-2
Customizing the GUI with a Transform	12-4
Sample Transform	12-6
Deploying Executables That Use the Client API	12-6
Information for Creating your Custom Icons and Logos	12-7
Recommended Image Format for AnyConnect 3.0 and Later	12-7
For Windows	12-7
For Linux	12-12
For Mac OS X	12-13
Creating and Uploading an AnyConnect Client Help File	12-14
Changing the Default AnyConnect English Messages	12-15
Localizing the AnyConnect Client GUI and Installer	12-18
Localizing the AnyConnect GUI	12-18
Specifying the AnyConnect Client Platform’s System Locale	12-19
Importing Available Translation Tables to the ASA	12-21
Translating using the ASDM Translation Table Editor	12-21
Translating by Exporting the Translation Table for Editing	12-26
Localizing the AnyConnect Installer Screens	12-29
Using Tools to Create Message Catalogs for Enterprise Deployment	12-31
AnyConnect Message Template Directories	12-31
Creating Message Catalogs	12-32

Merging a Newer Translation Template with your Translation Table 12-32

CHAPTER 13

Managing, Monitoring, and Troubleshooting AnyConnect Sessions 13-1

- Disconnecting All VPN Sessions 13-1
- Disconnecting Individual VPN Sessions 13-2
- Viewing Detailed Statistical Information 13-2
- Resolving VPN Connection Issues 13-2
 - Adjusting the MTU Size 13-3
 - Optimal MTU (OMTU) 13-3
- Using DART to Gather Troubleshooting Information 13-4
 - Getting the DART Software 13-4
 - Installing DART 13-5
 - Installing DART with AnyConnect 13-5
 - Manually Installing DART on a Windows Device 13-6
 - Manually Installing DART on a Linux Device 13-6
 - Manually Installing DART on a Mac OS X Device 13-7
 - Running DART on Windows 13-7
 - Running DART on Linux or Mac OS X 13-8
- Installing the AnyConnect Client 13-10
- Installing the Log Files 13-10
 - Web Install of Log Files 13-10
 - Standalone Install of Log Files 13-11
- Problems Disconnecting AnyConnect or Establishing Initial Connection 13-11
- Problems Passing Traffic 13-13
- Problems with AnyConnect Crashing 13-14
- Problems Connecting to the VPN Service 13-14
- Obtaining the Computer System Information 13-15
 - Obtaining a Systeminfo File Dump 13-15
 - Checking the Registry File 13-15
- Conflicts with Third-Party Applications 13-16
 - Adobe and Apple—Bonjour Printing Service 13-16
 - AT&T Communications Manager Versions 6.2 and 6.7 13-16
 - AT&T Global Dialer 13-17
 - Citrix Advanced Gateway Client Version 2.2.1 13-17
 - Firewall Conflicts 13-17
 - Juniper Odyssey Client 13-17
 - Kaspersky AV Workstation 6.x 13-18
 - McAfee Firewall 5 13-18

Microsoft Internet Explorer 8	13-18
Microsoft Routing and Remote Access Server	13-18
Microsoft Windows Updates	13-19
Microsoft Windows XP Service Pack 3	13-19
OpenVPN Client	13-20
Load Balancers	13-20
Wave EMBASSY Trust Suite	13-20
Layered Service Provider (LSP) Modules and NOD32 AV	13-20
LSP Symptom 2 Conflict	13-21
LSP Slow Data Throughput Symptom 3 Conflict	13-21
EVDO Wireless Cards and Venturi Driver	13-21
DSL Routers Fail to Negotiate	13-21
CheckPoint (and other Third-Party Software such as Kaspersky)	13-22
Performance Issues with Virtual Machine Network Service Drivers	13-22

APPENDIX A

VPN XML Reference A-1

Local Proxy Connections	A-2
Optimal Gateway Selection (OGS)	A-2
Trusted Network Detection	A-3
Always-on VPN and Subordinate Features	A-4
Always-on VPN With Load Balancing	A-6
Start Before Logon	A-7
Certificate Store on Windows	A-7
Restricting Certificate Store Use	A-8
SCEP Protocol to Provision and Renew Certificates	A-8
Certificate Matching	A-10
Automatic Certificate Selection	A-15
Backup Server List Parameters	A-15
Windows Mobile Policy	A-15
Auto Connect On Start	A-17
Auto Reconnect	A-17
Server List	A-18
Scripting	A-19
Authentication Timeout Control	A-20
Ignore Proxy	A-21
Allow AnyConnect Session from an RDP Session for Windows Users	A-21
AnyConnect over L2TP or PPTP	A-22

[Other AnyConnect Profile Settings](#) A-23

APPENDIX B

[Telemetry XML Reference](#) B-1

