Get to Know the Cisco AnyConnect Secure Mobility Client

Objective

This article focuses on the features, specifications, and benefits of using Cisco AnyConnect. For information on AnyConnect licensing on the RV340 series routers, please see the article AnyConnect Licensing for the RV340 Series Routers.

Software Version

4.2.03013 (Release Notes)

Features and Specifications

Feature	Benefits and Details
	Remote-Access VPN
	Windows 10, 8.1, 8, and 7
Brood anarating System	Mac OS X 10.8 and later
Broad operating System	Linux Intel (x64)
Support	See the AnyConnect Mobile data sheet for mobile platform
	information.
	AnyConnect provides a choice of VPN protocols, so administrators
	can use whichever protocol best fits their business needs.
	Tunneling support includes SSL (TLS 1.2 and DTLS) and next-
Optimized network	generation IPsec IKEv2.
access: VPN protocol	DTLS provides an optimized connection for latency-sensitive traffic,
choice SSL	such as VoIP traffic or TCP-based application access.
(TLS and DTLS); IPsec	TLS 1.2 (HTTP over TLS or SSL) helps ensure availability of
IKEv2	network connectivity through locked-down environments, including
	those using web proxy servers.
	IPsec IKEv2 provides an optimized connection for latency-sensitive
	traffic when security policies require use of IPsec.
	Determines and establishes connectivity to the optimal network-
Optimal gateway selection	access point, eliminating the need for end users to determine the
	nearest location.
	Designed for mobile users
	Can be configured so that the VPN connection remains established
Mobility friendly	during IP address changes, loss of connectivity, or hibernation or
	standby.
	With Trusted Network Detection, the VPN connection can
	automatically disconnect when an end user is in the office and
	connect when a user is at a remote location.
Encryption	AES-256 and 3DES-168. (The security gateway device must have
	a strong-crypto license enabled.)
	NSA Suite B algorithms, ESPv3 with IKEv2, 4096-bit RSA keys,
	Diffie-Hellman group 24, and enhanced SHA2 (SHA-256 and SHA-
	384). Applies only to IPsec IKEv2 connections. An AnyConnect Apex

	license is required.
	Deployment options:
	Predeployment, including Microsoft Installer
	Automatic security gateway deployment (administrative rights are
	required for initial installation) by ActiveX (Windows only) and Java
Wide range of deployment	
and connection options	Standalone by system icon
	Browser-initiated (web launch)
	, ,
	Clientless portal initiated CLI initiated
	API initiated RADIUS
	RADIUS with password expiry (MSCHAPv2) to NT LAN Manager
	(NTLM)
	RADIUS one-time password (OTP) support (state and reply
	message attributes)
	RSA SecurID (including SoftID integration)
Wide range of	Active Directory or Kerberos
authentication options	Embedded certificate authority (CA)
	Digital certificate or smartcard (including machine-certificate
	support), auto- or user-selected
	Lightweight Directory Access Protocol (LDAP) with password expiry
	and aging
	Generic LDAP support
	Combined certificate and username-password multifactor
	authentication (double authentication)
	Full-tunnel client mode supports remote-access users requiring a
	consistent LAN-like user experience.
Consistent user	Multiple delivery methods help ensure broad compatibility of
experience	AnyConnect.
	User may defer pushed updates.
	Customer experience feedback option is available.
	Policies can be preconfigured or configured locally and can be
	automatically updated from the VPN security gateway.
Centralized policy control	API for AnyConnect eases deployments through webpages or
and management	applications.
	Checking and user warnings are issued for untrusted certificates.
	Certificates can be viewed and managed locally.
	Public connectivity to and from IPv4 and IPv6 networks
	Access to internal IPv4 and IPv6 network resources
	Administrator-controlled split-tunneling and all-tunneling network
	access policy
	Access control policy
Advanced IP network connectivity	Per-app VPN policy for Google Android (Lollipop) and Samsung
	KNOX (new in Release 4.0; requires Cisco ASA 5500-X with OS 9.3
	or later and AnyConnect 4.0 licenses)
	IP address assignment mechanisms:
	Static
	Internal pool
	Dynamic Host Configuration Protocol (DHCP)
	RADIUS/LDAP
Robust unified endpoint	Endpoint posture assessment and remediation is supported for
compliance .	wired and wireless environments (replacing the Cisco Identity
(Apex license required)	Services Engine NAC Agent). Requires Identity Services Engine 1.3
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Cisco Hostscan seeks to detect the presence of antivirus software, personal firewall software, and Windows service packs on the endpoint system prior to granting network access. Administrators also have the option of defining custom posture checks based on the presence of running processes. Hostscan detects the presence of a watermark on a remote system. The watermark can be used to identify assets that are corporate owned and provide differentiated access as a result. The watermark-checking capability includes system registry values, file existence matching a required CRC32 checksum, IP address range matching, and certificates issued by or to a matching certificate authority. Additional capabilities are supported for out-of-compliance applications. Functions vary by operating system. See the Host Scan Support charts for detailed information. Provides added protection for split-tunneling configurations. Used in conjunction with the AnyConnect client to allow for local-access exceptions (for example, printing, tethered device support, and so on). Supports port-based rules for IPv4 and network and IP access control lists (ACLs) for IPv6. Available for Windows and Mac OS X platforms. In addition to English, the following language translations are included: Czech (cs-cz) German (de-de) Spanish (es-es) French (fr-fr) Japanese ([a-jp) Korean (ko-kr) Polish (pl-pl) Simplified Chinese (zh-cn) Chinese (Taiwan) (zh-tw) Dutch (nl-nl) Hungarian (hu-hu) Italian (it-it) Portuguese (Brazil) (pt-br) Russian (ru-ru) Administrators can automatically distribute software and policy updates from the headend security appliance, thereby eliminating administration associated with client software updates. Administrators can determine which capabilities to make available for end-user configuration. Administrators can determine which capabilities to make available for end-user configuration.		or later with Identity Services Engine Apex license.
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g ,		
Administrators can tuliy customize and localize end-user visible		Administrators can fully customize and localize end-user visible
messages.		
Any Connect policies may be customized directly from Cisco	Profile aditor	
Adaptive Security Device Manager (ASDM).	Profile editor	Adaptive Security Device Manager (ASDM).
On-device statistics and logging information are available.		On-device statistics and logging information are available.
Logs can be viewed on device.		
Logs can be easily emailed to Cisco or an administrator for	Diagnostics	
	Diagnostics	

Federal Information		
Processing Standard	FIPS 140-2 level 2 compliant (platform, feature, and version	
(FIPS)	restrictions apply)	
	Secure Mobility and Network Visibility	
Uses Cloud Web Security, the largest global provider of <u>S</u> oftware-		
	as-a- S ervice (SaaS) web security, to keep malware off corporate	
	networks and control and safeguard employee web usage.	
	Supports cloud-hosted configurations and dynamic loading.	
	Gives organizations flexibility and choice by supporting cloud-	
	based services in addition to premises-based services.	
Web security integration	Integrates with the Web Security Appliance.	
(Cloud Web Security license	Supports Trusted Network Detection.	
required)	• •	
	Enforces security policy in every transaction, independent of user	
	location.	
	Requires always-on highly secure network connectivity with a	
	policy to permit or deny network connectivity if access becomes	
	unavailable.	
	Detects hotspots and captive portals.	
	Uncover potential behavior anomalies by monitoring application	
Network Visibility module	usage.	
(Apex license required)	Allows for more informed network-design decisions.	
(Apex liberise required)	Can share usage data with a growing number of Internet Protocol	
	Flow Information Export (IPFIX)-capable network-analysis tools.	
	Simplifies the enablement of threat services to	
Advanced Malware	AnyConnect endpoints by distributing and enabling CiscoAMP for	
Protection (AMP) for	Endpoints.	
Endpoints Enabler	Extends endpoint threat services to remote endpoints, increasing	
(AMP for Endpoints licensed	endpoint threat coverage.	
separately)	Provides more proactive protection to further assure an attack is	
	mitigated at the remote endpoint quickly.	
Broad operating system	Windows 10, 8.1, 8, and 7	
support	Mac OS X 10.8 and later	
	Network Access Manager and 802.1X	
Media support	Ethernet (IEEE 802.3)	
поша саррета	Wi-Fi (IEEE 802.11a/b/g/n)	
	IEEE 802.1X-2001, 802.1X-2004, and 802.1X-2010	
	Enables businesses to deploy a single 802.1X authentication	
Network authentication	framework to access both wired and wireless networks.	
	Manages the user and device identity and the network access	
	protocols required for highly secure access.	
	Optimizes the user experience when connecting to a Cisco unified	
	wired and wireless network.	
Extensible Authentication Protocol (EAP) methods	EAP-Transport Layer Security (TLS)	
	EAP-Protected Extensible Authentication Protocol (PEAP) with the	
	following inner methods:	
	- EAP-TLS	
	- EAP-MSCHAPv2	
	- EAP-Generic Token Card (GTC)	
	EAP-Flexible Authentication via Secure Tunneling (FAST) with the	
	following inner methods:	
	- EAP-TLS	
	- EAP-MSCHAPv2	
	- EAP-GTC	
	EAP-Tunneled TLS (TTLS) with the following inner methods:	

	- Password Authentication Protocol (PAP).
	,
	- Challenge Handshake Authentication Protocol (CHAP).
	- Microsoft CHAP (MSCHAP).
	- MSCHAPv2
	- EAP-MD5
	- EAP-MSCHAPv2
	Lightweight EAP (LEAP), Wi-Fi only
	EAP-Message Digest 5 (MD5), administrative configured, Ethernet
	only
	EAP-MSCHAPv2, administrative configured, Ethernet only
	EAP-GTC, administrative configured, Ethernet only
	Open
	Wired Equivalent Privacy (WEP)
Wireless encryption	Dynamic WEP
methods (requires	Wi-Fi Protected Access (WPA) Enterprise
corresponding 802.11 NIC	WPA2 Enterprise
support)	WPA Personal (WPA-PSK)
	WPA2 Personal (WPA2-PSK)
	CCKM (requires Cisco CB21AG Wireless NIC)
	Counter mode with Cipher Block Chaining Message Authentication
L	Code Protocol (CCMP) using the Advanced Encryption Standard
Wireless encryption	(AES) algorithm
protocols	Temporal Key Integrity Protocol (TKIP) using the Rivest Cipher 4
	(RC4) stream cipher
	RFC2716 (EAP-TLS) session resumption using EAP-TLS, EAP-
	FAST, EAP-PEAP, and EAP-TTLS
Session resumption	EAP-FAST stateless session resumption
Session resumption	PMK-ID caching (Proactive Key Caching or Opportunistic Key
	Caching), Windows XP only
	Media Access Control: IEEE 802.1AE (MACsec)
	Key management: MACsec Key Agreement (MKA)
	Defines a security infrastructure on a wired Ethernet network to
Ethernet encryption	provide data confidentiality, data integrity, and authentication of data
	origin.
	Safeguards communication between trusted components of the
	network.
	Allows only a single connection to the network, disconnecting all
	others.
One connection at a time	No bridging between adapters.
	Ethernet connections automatically take priority.
	Supports "ends with" and "exact match" rules.
Complex server validation	Support for more than 30 rules for servers with no name
	commonality.
EAR Chairing (EAR	Differentiates access based on enterprise and non-enterprise
EAP-Chaining (EAP-	assets.
FASTv2)	Validates users and devices in a single EAP transaction.
	Helps ensure that users connect only to the correct corporate
	network.
Enterprise Connection	Prevents users from connecting to a third-party access point to surf
Enforcement (ECE)	the Internet while in the office.
<u> </u>	Prevents users from establishing access to the guest network.
	Eliminates cumbersome blacklisting.
Next-generation	Supports the latest cryptographic standards.
encryption (Suite B)	Elliptic Curve Diffie-Hellman key exchange
SISTERNIST LOUIS DI	1

	Elliptic Curve Digital Signature Algorithm (ECDSA) certificates
Credential types	Interactive user passwords or Windows passwords
	RSA SecurID tokens
	One-time password (OTP) tokens
	Smartcards (Axalto, Gemplus, SafeNet iKey, Alladin).
	X.509 certificates.
	Elliptic Curve Digital Signature Algorithm (ECDSA) certificates.
Remote desktop support	Authenticates remote user credentials to the local network when
	using Remote Desktop Protocol (RDP).
Operating systems	Windows 10, 8.1, 8 and 7
supported	Williad To, C. 1, C and 1