

Configure Secure Client Modules on a Threat Defense using Cisco Secure Firewall Management Center

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Introduction

Cisco Secure Client can integrate with various Cisco endpoint security solutions and offer enhanced security using different Secure Client modules.

You can use the managed headend threat defense to distribute and manage Secure Client modules to the endpoints. When a user connects to the threat defense, it downloads and installs Secure Client and the required modules on the endpoint.

Benefits

Using a threat defense to distribute and manage Secure Client modules to the endpoints offers significant benefits, as it eliminates the need for the following manual actions for managing your organization's network:

- · Download or upgrade Secure Client on each endpoint.
- Distribute and manage Secure Client modules and profiles on each endpoint.

Is this Guide for You?

This use case is for network administrators who use the management center to configure Secure Client modules for remote workers connecting to their organization's network using remote access VPN.

System Requirements

The table below shows the supported platforms for this feature.

Product	Version	Version used in this document
Cisco Secure Firewall Threat Defense (formerly Firepower Threat Defense/FTD)	6.3 and later	7.3

Product	Version	Version used in this document
Cisco Secure Firewall Management Center (formerly Firepower Management Center/FMC)	6.7 and later	7.3
Cisco Secure Client (formerly AnyConnect)	4.0 and later	5.0

Note

In FMC versions 6.4 to 6.6, you can enable these modules and profiles on an FTD using FlexConfig. For more information, see Configure AnyConnect Modules and Profiles Using FlexConfig.

How to Install Secure Client Modules using a Managed Threat Defense

- 1. The administrator creates profiles for the required Secure Client modules.
- 2. The administrator uses the management center to:
 - a. Configure the modules and add the profiles in the RA VPN group policy.
 - **b.** Deploy the configuration on the threat defense.
- 3. The user uses Secure Client to initiate a VPN connection to the threat defense.
- 4. The threat defense authenticates the user.
- 5. The Secure Client checks for updates.
- 6. The threat defense distributes the Secure Client modules and the profiles on the endpoint.

What are the Different Secure Client Modules?

Module	Description	
AMP Enabler	Deploys Cisco Secure Endpoint, formerly AMP for Endpoints, on endpoints.	
	It detects potential malware threats in the network, removes these threats, and protects the enterprise.	
ISE Posture	Performs posture checks using Cisco Identity Services Engine (ISE) to assess an endpoint's compliance.	
Network Visibility	Monitors endpoint application usage.	
	You can share the usage data with NetFlow analysis tools.	
Umbrella Roaming Security	Provides DNS-layer security using the Cisco Umbrella Roaming Security service.	

Module	Description
Network Access Manager	Provides a secure layer 2 network and performs device authentication to access wired and wireless networks.
Start Before Login (SBL)	Allows users to establish their VPN connection to the enterprise infrastructure before logging onto Windows.
Web Security	Routes HTTP traffic to a Cisco Cloud Web Security scanning proxy.
Diagnostics and Reporting Tool (DART)	Collates system logs and other diagnostic information to troubleshoot Secure Client installation and connection problems.
Feedback	Provides information about the features and modules that you use and enable.
	This information allows Cisco to improve the quality, reliability, performance, and user experience of Cisco Secure Client.

For more information about these modules, see the Cisco Secure Client (including AnyConnect) Administrator Guide, Release 5.

Prerequisites

- Configure the associated products depending on the module that you are going to use.
- Download the following Secure Client-related packages from the Cisco Software Download Center to your local host.
 - Cisco Secure Client Headend Deployment Package for the required platforms.

This package is for the headend and contains all the Secure Client modules. For Windows, the filename is cisco-secure-client-win-5.0.03076-webdeploy-k9.pkg.

• Profile Editor: Create profiles for the modules that require profiles.

Secure Client needs a Secure Client profile for some of the modules. A profile contains configurations to enable the modules and connect to the corresponding security services. The profile editor supports only Windows.

The following table lists if the modules require a client profile:

Secure Client Module	Requires a Client Profile
AMP Enabler	Yes
ISE Posture	Yes
Network Access Manager	Yes
Network Visibility Module	Yes
Umbrella Roaming Secure Module	Yes
Feedback	Yes

Secure Client Module	Requires a Client Profile
DART	No
Start Before Login	No

Licences

- You need one of the following Secure Client licenses: Secure Client Premier, Secure Client Advantage, or Secure Client VPN Only.
- Your management center Essentials (formerly Base) license must allow export-controlled functionality.

Choose System > Licenses > Smart Licenses to verify this functionality in the management center.

Guidelines, Best Practices, and Limitations

• Different modules support profiles with different file extensions.

Ensure that you choose the correct file extensions as shown in the following table:

Module Name	File Extensions
AMP Enabler	*.xml, *.asp
Customer Experience Feedback	*.xml
ISE Posture	*.xml, *.isp
Network Access Manager	*.xml, *.nsp
Network Visibility	*.xml, *.nvmsp
Umbrella Roaming Security	*.xml, *.json
Web Security	*.xml, *.wsp, *.wso

• Use DART to collate troubleshooting data and logs, and share it with Cisco TAC, if required.

By default, DART is not enabled in new remote access VPN group policies for 6.7 and later versions. In 6.6 and earlier versions, DART is enabled by default.

- If you use the ISE posture module on a Windows OS, you must install Network Access Manager before you use the ISE posture module.
- Cisco ISE 3.0 and later support agentless posture.
- If you enable the Umbrella Roaming Security module, ensure that you disable the **Always send DNS** requests over tunnel option under split tunneling in the RA VPN group policy.
- You must enable the SBL in the Secure client VPN profile and add it to the RA VPN group policy in the management center.

To add a Secure client VPN profile to the group policy:

- 1. Edit a RA VPN group policy.
- 2. Click the Secure Client tab and click Profile.
- 3. Click + to add the Secure client VPN profile.
- 4. Click Save.

Limitations

- For a group policy, you can add only one entry per client module. You can edit or delete an entry for a module.
- AMP Enabler is available only for macOS in Cisco Secure Client 5.0, as Cisco Secure Client for Windows offers full integration with Cisco Secure Endpoint.
- Network Access Manager does not support macOS or Linux.

Configure a Remote Access VPN Group Policy with Secure Client Modules

Before you begin

Configure a remote access VPN policy in the management center.

Procedure

Step 1	Log in to your management center web interface.
Step 2	Choose Devices > Remote Access .
Step 3	Select a remote access VPN policy, and click Edit.
Step 4	Select a connection profile, and click Edit.
Step 5	Click Edit Group Policy.
Step 6	Click the Secure Client tab.
Step 7	Click Client Modules, and click +.

Edit Group Policy				?
Name:*				
Description:				
General Secure (Client Advanced			
Profile	Download optional client m	nodules to the endpoi	nt. Secure Clien	t requests
Management Profile	download from the Firewal configured here.	I Threat Defense of o	nly the modules	that are
Client Modules				+
SSL Settings	Client Module	Profile	Download	
Connection Settings		No records to display		
Custom Attributes				

Step 8 Choose a module from the **Client Module** drop-down list.

- **Step 9** Choose a profile for the module from the **Profile to download** drop-down list or click + to add a profile.
- **Step 10** Check the **Enable module download** check box.
- Step 11 Click Add.
- Step 12 Click Save.

What to do next

- 1. Deploy the configuration on the threat defense.
- 2. Establish a VPN connection to the threat defense using the Secure Client.
- 3. Verify the Secure Client configuration.

Verify Secure Client Modules Configurations

On the Threat Defense

Use the following commands on the threat defense CLI to view the Secure Client modules configuration:

Command	Description
show disk0:	View the profiles and their configuration.

Command	Description
show run webvpn	View details of the Secure Client configurations.
show run group-policy <group_policy_name></group_policy_name>	View details of the RA VPN group policy for Secure Client.
show vpn-sessiondb anyconnect	View details of the active Secure Client VPN sessions.

On the Endpoint

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- 1. Establish a VPN connection to the threat defense using the Secure Client.
- 2. Verify if the configured modules are downloaded and installed as part of the Secure Client.
- 3. Verify if the profiles are available in the locations specified in Profile Locations for all Operating Systems.

On the Management Center

You can monitor active remote access VPN sessions on the management center using the Remote Access VPN Dashboard (**Overview** > **Remote Access** > **VPN**). You can determine problems related to user sessions and mitigate the problems for your network and users.



Examples of Configuring Secure Client Modules

- Provide DNS Layer-security for Endpoint using Secure Client Umbrella Module and Management Center, on page 8
- Configure DART Module on an Endpoint
- Assess Endpoint Compliance Using Cisco Secure Client ISE Posture Module and Cisco Secure Firewall
 Management Center

Provide DNS Layer-security for Endpoint using Secure Client Umbrella Module and Management Center

Before you begin

Ensure that you have:

- Access to an Umbrella dashboard.
- Downloaded the Secure Client package to your local host.
- Configured a remote access VPN on the management center.
- A higher version of Secure Client on the management center than the version on the endpoint.
- Disable the **Always send DNS requests over tunnel** option under split tunnelling in the RA VPN group policy.

Procedure

Step	Task	More Info
1	Download the Secure Client Umbrella module profile from the Umbrella dashboard to your local host.	Download Secure Client Umbrella Module Profile from the Umbrella Dashboard, on page 8
2	Configure the Umbrella module and the profile in the remote access VPN group policy in the management center.	Configure a Remote Access VPN Group Policy with Secure Client Modules, on page 5
3	Deploy the configuration on the threat defense.	On the management center menu bar, click Deploy and then select Deployment .

Download Secure Client Umbrella Module Profile from the Umbrella Dashboard

The Umbrella profile (OrgInfo.json) file contains specific information about your Cisco Umbrella service subscription that lets the Security Roaming module know where to report and which policies to enforce.

Procedure

- **Step 1** Log in to Cisco Umbrella.
- **Step 2** Choose **Deployments** > **Roaming Computers**.
- Step 3 Click the Roaming Client icon.
- Step 4 Click Download Module Profile.



An example of the **OrgInfo.json** file is given below:

	OrgInfo (3).json	×	+
File	Edit View		
{ } 	"organizationId" : "fingerprint" : " "userId" : "	, I	,

Verify Umbrella Module Configuration

On the Threat Defense

- Use the sh vpn-sessiondb anyconnect command to confirm a successful Secure Client connection.
- Use the sh run group-policy command to view details of the remote access VPN group policy.

On the Endpoint

1. Verify if the VPN connection is successful, and if Umbrella module has been downloaded on the endpoint.



2. Click the Statistics icon, and click the Status Overview tab.

The IPv4/IPv6 DNS Protection Status is "Protected".

S Cisco Secure Client		
cisco Secure C	Olient	
Status Overview >	Status Overview	
AnyConnect VPN	AnyConnect VPN (Disconr	pected)
Umbrella	Bytes Sent: Bytes Received: Time Connected: Client Address (IPv4): Client Address (IPv6): Server Address:	0 0 00:00:00 Not Available Not Available Not Available
	Session Disconnect: Umbrella IPv4 DNS Protection Status: IPv6 DNS Protection Status: Web Protection Status: Last Connected:	None Protected Disabled (no network) Protected Today 01:58:45 AM

On the Cisco Umbrella

Choose **Deployments** > **Roaming Computers**.

The status of the endpoint is "Protected at the DNS Layer".

Cisco Umbrella	•	Deployments / Core Identities				<u>(*</u>)	
Overview		Roaming Computer	15. 0			Roaming Clie	ent Settings
Deployments \checkmark	Roa	ming Computers are those that are protected by	either the Umbrella Roaming Client, or Cisco Secure Cli	ent Umbrella module (formerly AnyConne	ct). This area of the Dashboard gives	administrators the ability to dep	lav vaur clier
Core Identities	the	download button on the upper right and to manage	ge your Roaming Computers below.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,	.,,
Networks							
Network Devices	٩	Search				Ad	Ivanced \vee
Roaming Computers							
Mobile Devices		2 Total					
Chromebook Usera			5 m	T		Lass Care	
Network Tunnela			Status	1805	Sing Overnae Setting	саят Зулс 🔻	
Users and Groups		DESKTOP-AF8JVDD	 Protected at the DNS Layer DNS Layer Encryption: disabled 		Enabled	3 minutes ago	~
Configuration			Description for the DNO Laws				
Domain Management		Umbrella-Roaming-and-VA-VM	 Protected & Encrypted at the DNS Layer DNS Layer Encryption: enabled 		Global Setting	18 minutes ago	\sim
Sites and Active Directory					Page: 1 V Results per p	age: 10 × 1-2 of 2 <	>
Internal Networks	-						· · · ·
Root Certificate							
SAML Configuration							
Service Account Exceptions							

Configure DART Module on an Endpoint

Procedure

Step 1	Download the Secure Client package to your local host, See Cisco Software Download Center.
Step 2	Configure a remote access VPN on the management center.
Step 3	Configure the DART module in the RA VPN group policy in the management center, See Configure a Remote Access VPN Group Policy with Secure Client Modules.
Step 4	Deploy the configuration on the threat defense.
	On the management center menu bar, click Deploy and then select Deployment .

Verify DART Configuration

On the Endpoint

1. Verify if the VPN connection is successful.



2. Verify if the DART module has been downloaded on the endpoint.

🕙 Cisco AnyConr	nect Secure Mobility Client		×
uluih cisco	AnyConnect Secure Mobility Client		(i
Virtual Private	e Network (VPN)		
Preferences Stat	istics Route Details Firewall Message History		
6/06/2023 1:51:24 PM 1:52:41 PM 1:53:18 PM 1:53:18 PM 1:53:18 PM 1:53:18 PM 1:53:21 PM 1:53:21 PM 1:53:22 PM 1:53:22 PM 1:53:22 PM 1:53:22 PM 1:53:23 PM 1:53:23 PM	Ready to connect. Contacting 10.106.53.27. User credentials entered. Establishing VPN session The AnyConnect Downloader is performing update checks Checking for profile updates Checking for product undates Downloading AnyConnect DART 4.10.05111 - 100% Checking for customization updates Performing any required updates Establishing VPN - Initiating connection Establishing VPN - Examining system Establishing VPN - Activating VPN adapter Establishing VPN - Configuring system Establishing VPN - Configuring system Establishing VPN Connected to 10.106.53.27.		~
			\sim

- 3. After a successful download, restart the AnyConnect Client.
- 4. Click the Statistics icon.
- 5. Click Diagnostics.

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Iuai Privale Nelwork (V	PIN) Diagnostics	····
ferences Statistics Route Deta	ils Firewall Message History	
Connection Information	1	- •
State:	Disconnected	
Tunnel Mode (IPv4):	Not Available	
Tunnel Mode (IPv6):	Not Available	
Dynamic Tunnel Exclusion:	Not Available	
Dynamic Tunnel Inclusion:	Not Available	
Duration:	00:00:00	
Session Disconnect:	None	
Management Connection State:	Disconnected (disabled)	
Address Information		- ^
Client (IPv4):	Not Available	
Client (IPv6):	Not Available	
6	Mat Aughteda	

6. Use the DART wizard to use the DART module.

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