



Technical Guide
ecCLOUD Wedge Security Service
Add-on Setup Guide

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1. Introduction

This document is to provide an instruction for setting up the Wedge Security Service add-on on ecCLOUD. Wedge Security Service Add-on is ecCLOUD's real-time threat prevention service, provided by Wedge Networks' Cloud Network Defense (WedgeCND). After subscribing to this service, the add-on software will be installed on your device to establish a fast VPN tunnel to connect to WedgeCND in the cloud. Security functions are applied to network traffic routed through the tunnel to protect the device and the endpoints connected to it.

Wedge Security Service Add-on provides the following security functions. In addition to these security inspections, it also provides security event reports.

1.1. Advanced Malware Prevention

Blocks any malware from reaching endpoints in the network.

- **Antivirus:** Signature and heuristic based antivirus with dual antivirus engines to detect most of known malware, such as Viruses, Trojans, Worms, Backdoors, etc.
- **AI Anti-Malware:** Artificial intelligence machine learning based malware detection for unknown and never-seen-before malware, such as APT, Zero-day, and Ransomware.
- **Malware Analyzer:** Sandbox based malware detection for greyware and suspicious code, data and files.

1.2. Intelligence Intrusion Detection & Prevention

Mainly protects the hosts and servers in the network from external attacks.

- **Exploit:** Prevent from exploits on different applications, including PDF readers, Microsoft RDP, Windows Media Player, VNC Server, Java-based programs, JavaScript, etc..
- **BOT Command & Control:** Inspect traffic from a list of botnet command and control servers.
- **SQL Injection:** Prevent from compromising SQL-based RDBMS.
- **DoS:** Detect and block Denial-of-Service attack.
- **Critical Infrastructure Protection:** Inspect insecure data transfer methods and known vulnerabilities of various SCADA software packages, such as PcVue, Sunway ForceControl, Siemens FactoryLink, etc.

1.3. Web Filter

Provides a safe Internet usage environment by detecting and blocking all categorized websites and URLs containing malicious content, spam, phishing, fraud, spyware, adware, and more.

- **Malware sites**
- **SPAM URLs**
- **Confirmed SPAM sources**

- **Unconfirmed SPAM sources**
- **Phishing and other frauds**
- **Spyware and adware**

2. Supported AP Models

For the time being, Wedge Security Service add-on is supported on the AP listed below.

Model	Supported versions
EAP101	11.6.5

3. Getting Started

Before subscribing to the security service, please make sure the AP is on the support list and managed by ecCLOUD. For how to register an AP to ecCLOUD, please check the instructions in the Edgecore Help Center (<https://support.edge-core.com/hc/en-us/sections/900000350566-ecCloud>) or the ecCLOUD user manual (https://wifi.edge-core.com/assets/Document/UserManual/EC_ecCLOUD_UserManual.pdf).

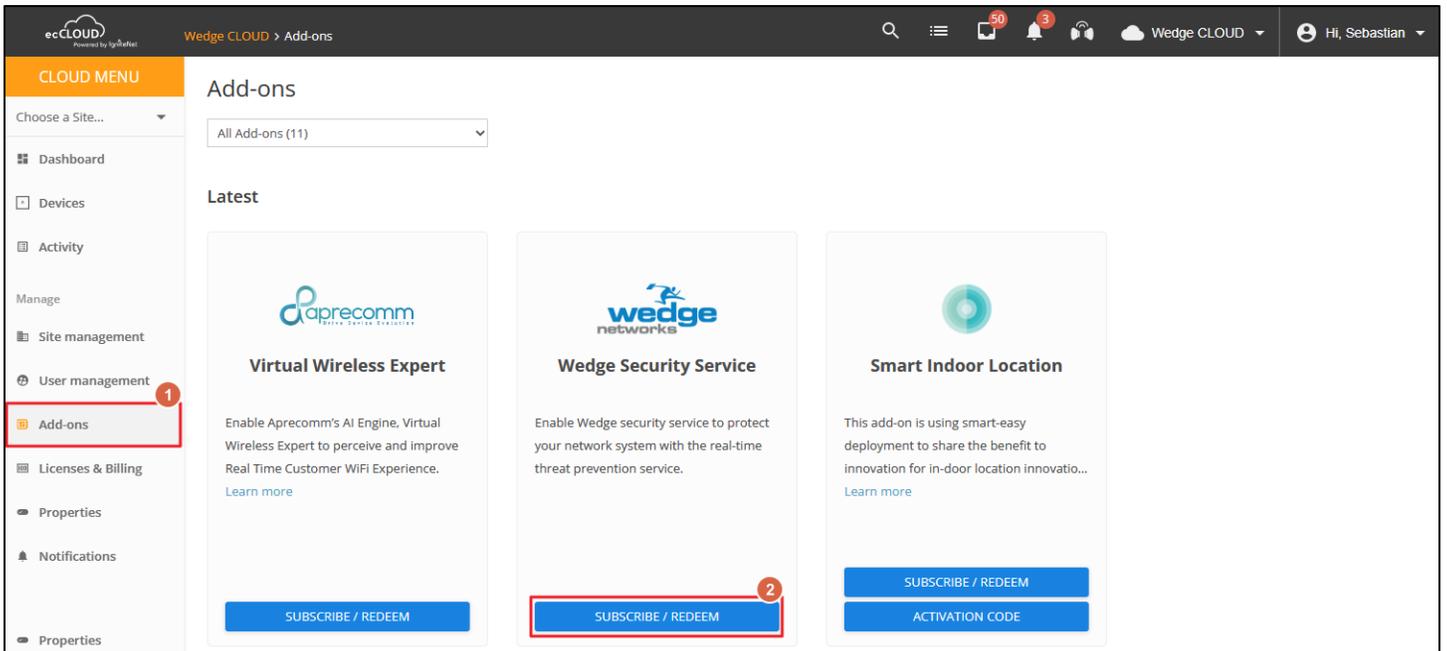
Note:

- *In current version, only **router mode** SSID is supported for Wedge Security Service.*

4. Enabling Wedge Security Service Add-on

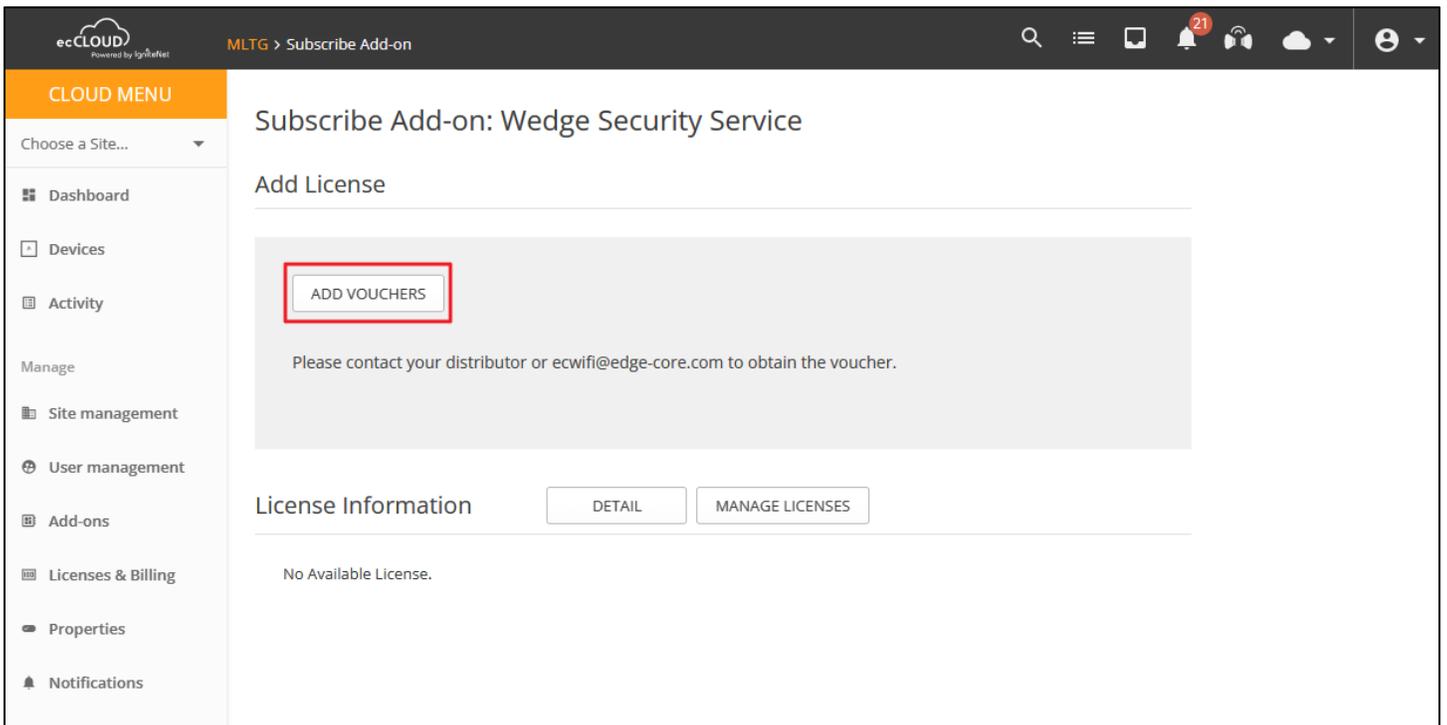
4.1. Applying voucher

- i. Go to “Add-ons” page. Find Wedge Security Service add-on and click the “SUBSCRIBE / REDEEM” button to get to the add-on subscription page.



The screenshot shows the ecCLOUD interface with the 'Add-ons' page selected. The 'Add-ons' menu item in the left sidebar is highlighted with a red box and a '1' in a red circle. The main content area displays three add-on cards: 'Virtual Wireless Expert', 'Wedge Security Service', and 'Smart Indoor Location'. The 'Wedge Security Service' card is highlighted with a red box and a '2' in a red circle, and its 'SUBSCRIBE / REDEEM' button is also highlighted with a red box.

- ii. In the subscription page for Wedge Security Service add-on, click the “APPLY VOUCHERS” button. A modal will pop-up for filling the voucher codes.



The screenshot shows the 'Subscribe Add-on: Wedge Security Service' page. The 'ADD VOUCHERS' button is highlighted with a red box. Below the button, there is a text prompt: 'Please contact your distributor or ecwifi@edge-core.com to obtain the voucher.' At the bottom of the page, there are buttons for 'DETAIL' and 'MANAGE LICENSES'.

- iii. Get a voucher code from Edge-core team. Enter the voucher code and click the “ADD” button. The voucher code is valid, the voucher value will be listed below. After inputting all of your valid voucher codes, click the “APPLY” button. A dialog box will be popped-out for your confirmation. Click “CONFIRM” button if you would like to apply the vouchers.

Note that the voucher code will be consumed after click “CONFIRM” button. The applied voucher cannot be recovered or transferred to another cloud.

The image shows a sequence of three screenshots illustrating the voucher application process:

- Step 1:** The 'Apply vouchers' dialog box prompts the user to enter voucher codes. A text input field contains 'JNJ72530' (marked with a red circle '1'), and an 'ADD' button is visible (marked with a red circle '2').
- Step 2:** The 'Apply vouchers' dialog box shows the voucher code 'JNJ72530' has been added to a table. The table has columns for 'Voucher Code', 'License Quantity', and 'Valid Time'. The row for 'JNJ72530' shows a quantity of '1' and a valid time of '12 Months'. A red box highlights this row. The 'APPLY' button is now highlighted (marked with a red circle '3').
- Step 3:** A 'Confirmation Required' dialog box is displayed over the 'Apply vouchers' dialog. It asks the user to confirm the voucher information, stating that once applied, vouchers cannot be changed or removed. The 'CONFIRM' button is highlighted (marked with a red circle '4').

4.2. License control for APs

- i. Go to the subscription page for Wedge Security Service add-on. Click “MANAGE LICENSE” button to check the device list.

The screenshot shows the ecCLOUD interface for the 'Subscribe Add-on: Wedge Security Service'. The left sidebar contains a 'CLOUD MENU' with options like Dashboard, Devices, Activity, and Licenses & Billing. The main content area has an 'Add License' section with an 'ADD VOUCHERS' button and a message: 'Please contact your distributor or ecwifi@edge-core.com to obtain the voucher.' Below this is a 'License Information' section with two tabs: 'DETAIL' and 'MANAGE LICENSES', where the latter is highlighted with a red box. A table below shows license details:

License Duration	Available	In Use
12 Months	1	0

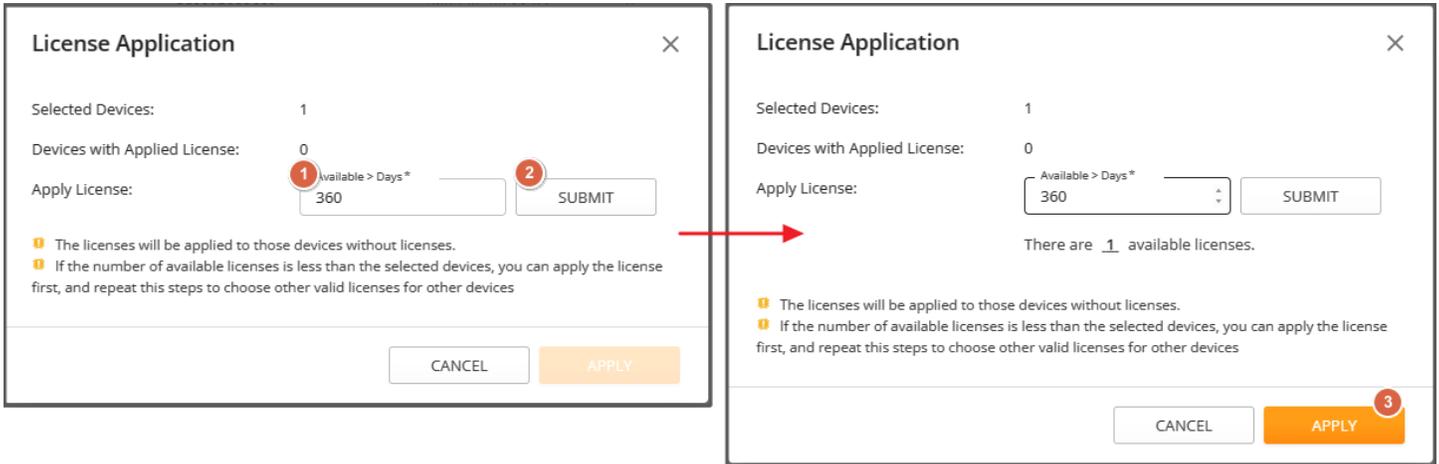
- ii. Select the AP you would like to apply the license, open the “ACTIONS” menu and click “Apply License”.

The screenshot shows the 'Manage Licenses: Wedge Security Service' page. At the top, there are buttons for 'ACTIONS', 'REFRESH', 'CUSTOMIZE', and 'EXPORT'. A search bar is also present. Below these is a table with columns: NAME, PRODUCT, FW, CREATED ON, SITE, ACTIVATED AT, and EXPIRED AT. The table contains one row with the following data:

NAME	PRODUCT	FW	CREATED ON	SITE	ACTIVATED AT	EXPIRED AT
P101	EAP101 EC2217000661	11.6.5-1353	3 minutes ago 2023-05-02 11:04	wedge		

At the bottom right, there is a 'Rows per page: 25' dropdown and a '1-1 of 1' indicator with navigation arrows. The 'ACTIONS' menu is open, showing 'Apply License' and 'Remove License' options. The 'Apply License' option is highlighted with a red circle.

- iii. A dialog box will pop-up for your confirmation to apply the license. First, you may filter the licenses by the available duration. For example, inputting 360 and click “SUBMIT” button, the licenses with more than 360 days of available duration will be counted in. After filtering the license duration, clicking “APPLY” button then the system will automatically select a license from the pool and apply to the selected APs.



- iv. After the license is applied to an AP, the “ACTIVATED AT” and “EXPIRED AT” will be shown. Note that the license is for 1 year from the time it is applied to an AP.

Manage Licenses

ACTIONS REFRESH CUSTOMIZE EXPORT Search

	NAME	PRODUCT	FW	CREATED ON ↓	SITE	ACTIVATED AT	EXPIRED AT
0	EAP101 EC2038000725	11.6.2-1269	a day ago 2022-07-06 17:07	site_addon	a day ago 2022-07-06 17:15	in a year 2023-07-06 17:15	

Rows per page: 25 1-1 of 1

- v. Check the Activity page. There should an Addon Management activity to update the add-on license to the AP. Initially, the status would be “Scheduled”, which means this task is scheduled to be executed. If the status becomes “Running”, it means that the installation of the related packages is in progress. When the status becomes “Completed”, the AP is ready to provide service.

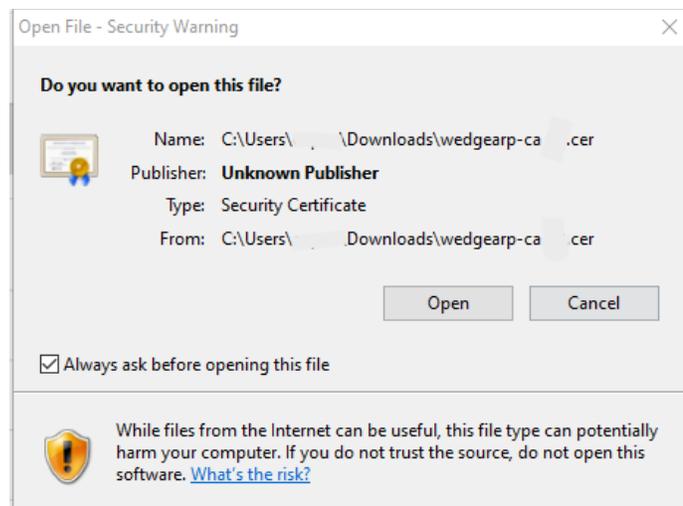


4.3. Preparing for SSL/TLS Traffic Scan

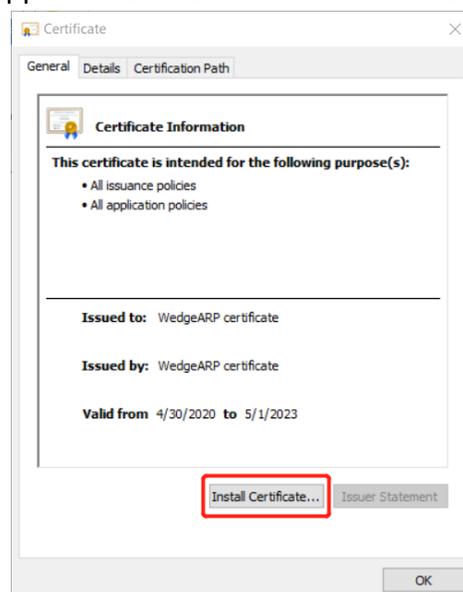
To allow Wedge Security Service to scan SSL/TLS traffic for providing further protection, it is required to download and import the Wedge certificate on your devices. The steps below shows an example to import the Wedge certificate on a Windows 10 device.

*Note: With the steps below, the SSL/TLS traffic via **Microsoft Edge**, **Google Chrome**, or command prompt will be scanned. For those using **Mozilla Firefox** browsers, you will need to install the Wedge Security certificate separately as it does not use the Microsoft Certificate key store.*

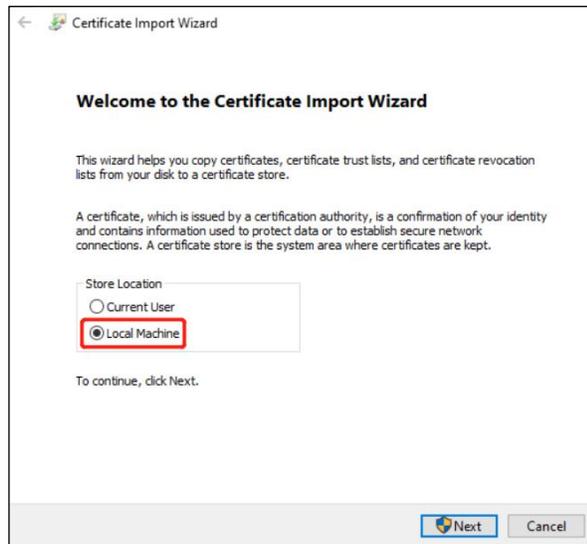
- i. Download and save the Wedge certificate from <https://wedgenetworks.com/Certificates/wedgearp-ca.cer>.
- ii. Once downloaded, double click on the file "wedgearp-ca.cer". Press Open once the following dialog box appears.



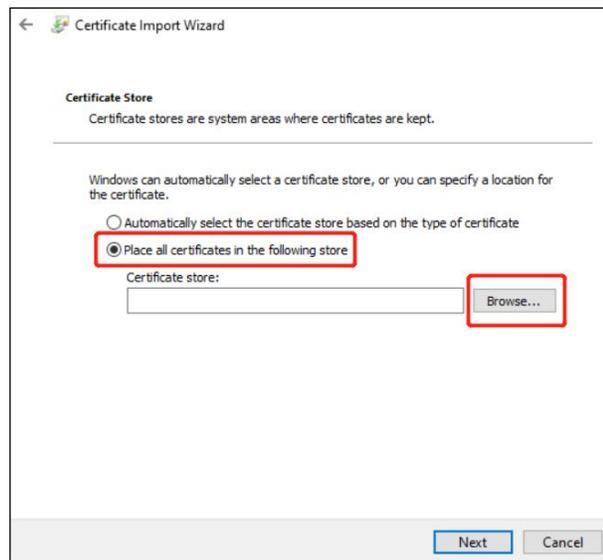
- iii. The Certificate dialog box will appear. Click on "Install Certificate" to install.



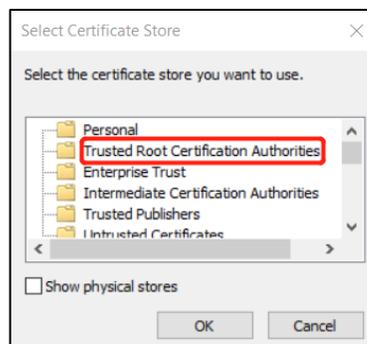
- iv. The "Certificate Import Wizard" dialog box will appear. Click on the radio button "Local Machine" and click Next to continue.



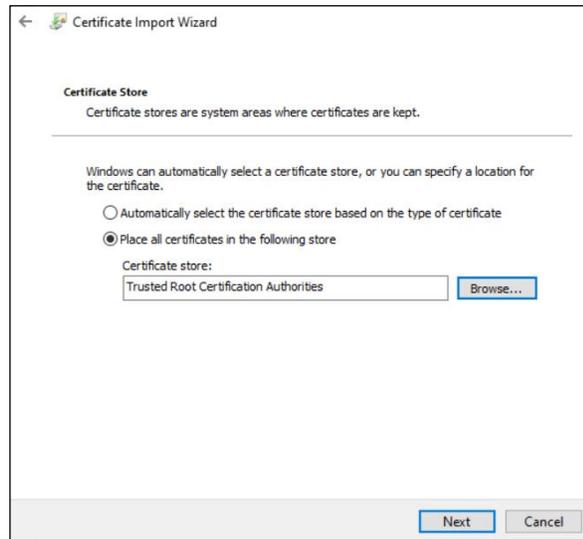
- v. Windows will flash another screen asking for permission to make changes. Click on Yes.
- vi. Choose the radio button "Place all certificates in the following store" and then click on the Browse button.



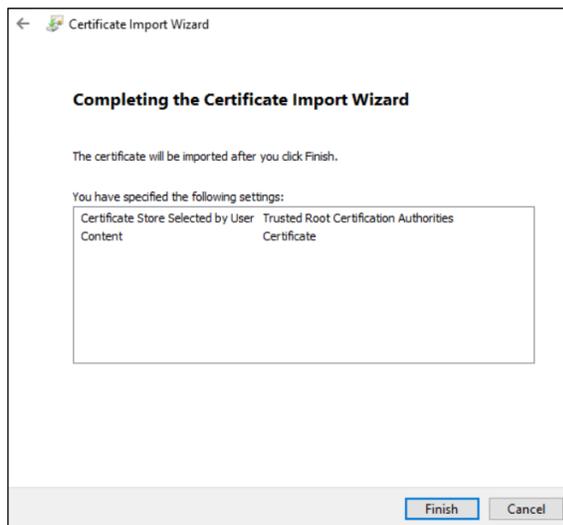
- vii. The following "Select Certificate Store" dialog box will appear. Click on "Trusted Root Certificate" and then OK.



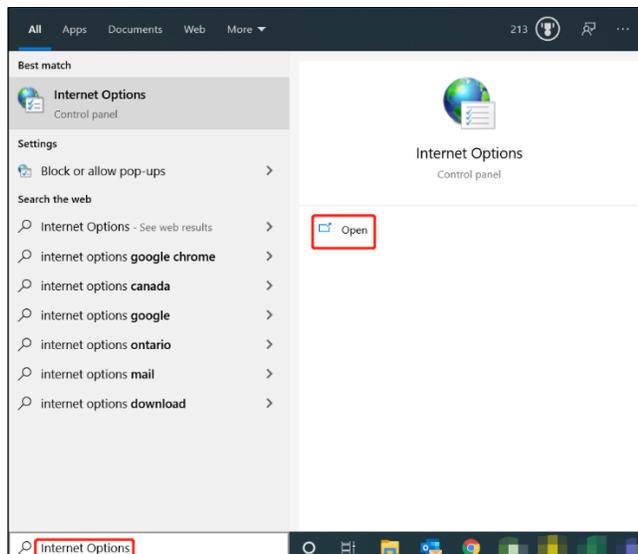
viii. Then, click Next as shown:



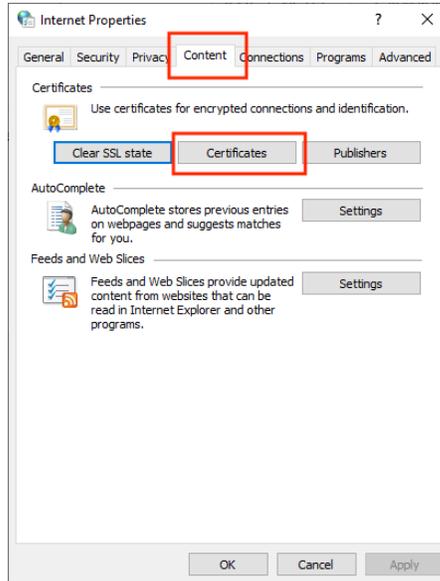
ix. The following dialog box will appear. Click on Finish to complete the installation.



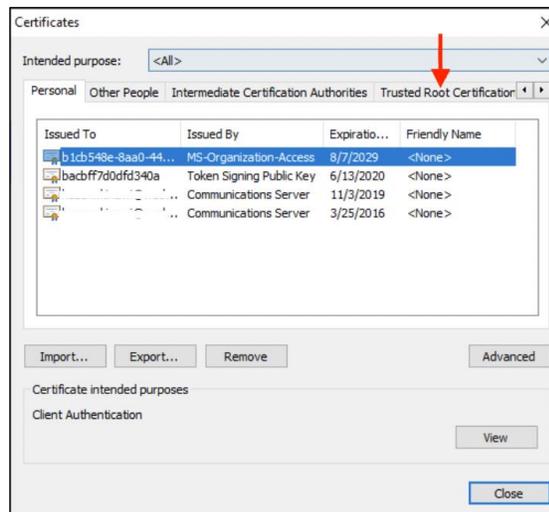
x. To verify that the certificate was properly installed, go to the Start menu and type in "Internet Options" and click on Open.



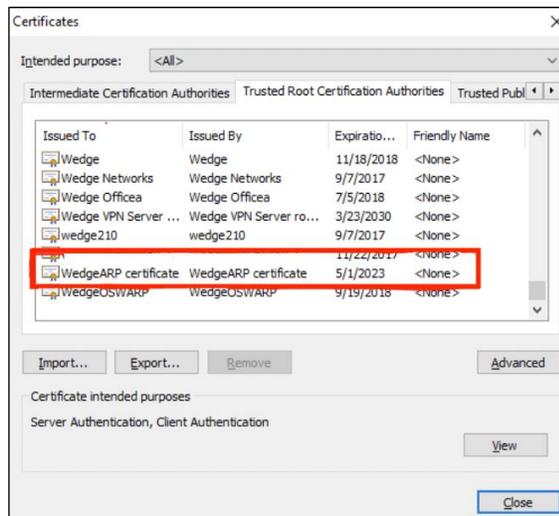
- xi. Once the Internet Properties dialog box comes up, navigate to the Content tab and click on Certificates to get the Certificates dialog box.



- xii. Click on the "Trusted Root Certification Authorities" tab.



- xiii. Scroll down until you see the WedgeARP Certificate for verification.



5. Checking License Status

The summary of the license information is listed in the add-on subscription page. The number of available licenses and the number of in-use licenses are listed based on the length of the license duration.

License Information		
	DETAIL	MANAGE LICENSES
License Duration	Available	In Use
12 Months	4	1
24 Months	1	3

By clicking the “DETAIL” button, you can check the details of all the licenses. In the license details page, you can check whether the license is activated or not, and even check which AP on which site the license is applied to. The original license duration and the available license duration for each license are also shown in the details.

License Details: Wedge Security Service							
LICENSE ID	LICENSE DURATION	AVAILABLE DURATION	ACTIVATE	ACTIVATE AT	EXPIRE AT	DEVICE NAME	SITE NAME
802	1 year	a year	Y	2023-02-15 13:48	2024-02-15 13:48	Wedge_AP	Wedge Test
819	1 year	a year	N				
820	1 year	a year	N				
821	1 year	a year	N				
822	1 year	a year	N				

Rows per page: 25 ▾ 1-5 of 5 < >

6. Generating Security Report

- i. Go to the subscription page for Wedge Security Service add-on and scroll down to the “Report” section. Select the start date and the end date, and then click “CREATE REPORT” button to generate the security report for the selected period.

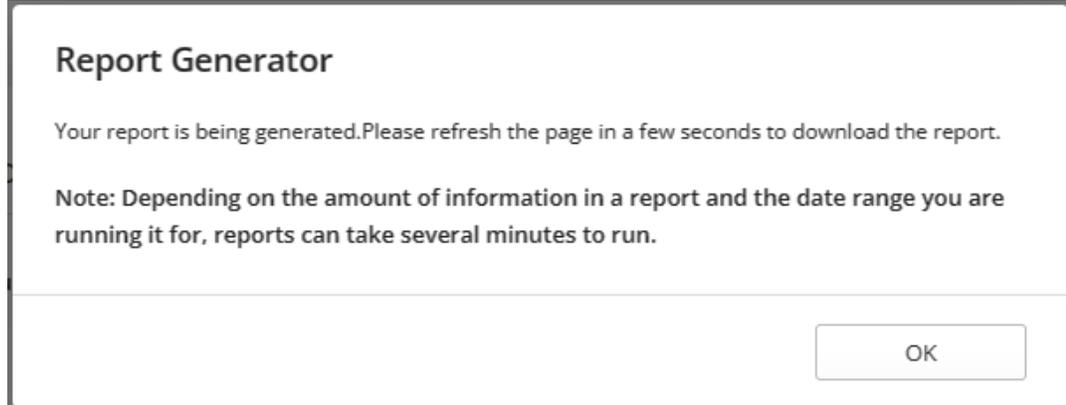
Report

From 1 2023-05-02 2 to 2023-05-02 3 CREATE REPORT

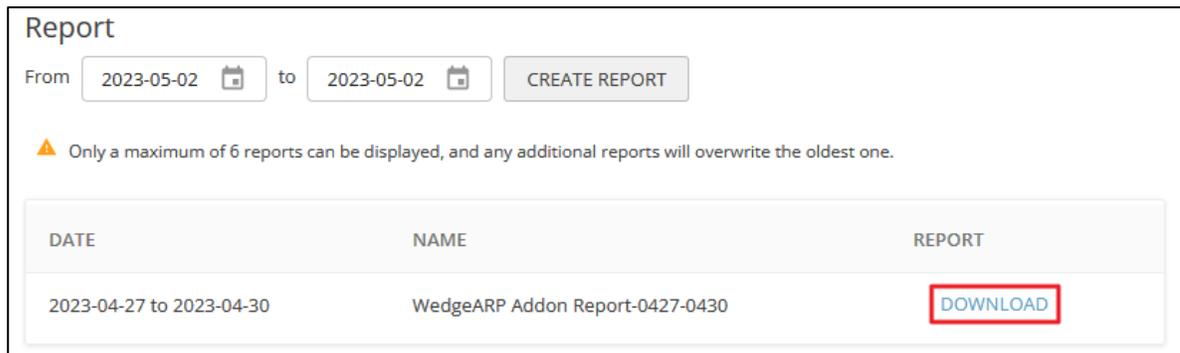
▲ Only a maximum of 6 reports can be displayed, and any additional reports will overwrite the oldest one.

DATE	NAME	REPORT
No data to display.		

- ii. After clicking the “CREATE REPORT” button, a hint message will pop out. As the message described, it may take some time for the report to be generated. You may refresh the page and check whether the download link is ready.



- iii. The download link will appear once it is ready. Click the “DOWNLOAD” link to get the report in PDF format.



Note:

- *At most 6 reports can be displayed. Any additional reports will overwrite the oldest one.*

7. Remark

For more information, please submit a ticket at <https://support.edge-core.com/hc/en-us>, or just send an email to ecwifi@edge-core.com.