Configure Secure Web Appliance to Allow Guest Access

Contents

Introduction

This document describes steps to allow users which has not installed the decryption certificate to access the Internet via Secure Web Appliance (SWA).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Physical or Virtual SWA Installed.
- License activated or installed.
- The setup wizard is completed.

- Administrative Access to the SWA Graphical User Interface (GUI).

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure

that you understand the potential impact of any command.

Scenario Overview

This article addresses a network access control scenario within the 10.10.10.0/24 Wi-Fi subnet. The environment consists of two distinct user groups requiring different security and access policies:

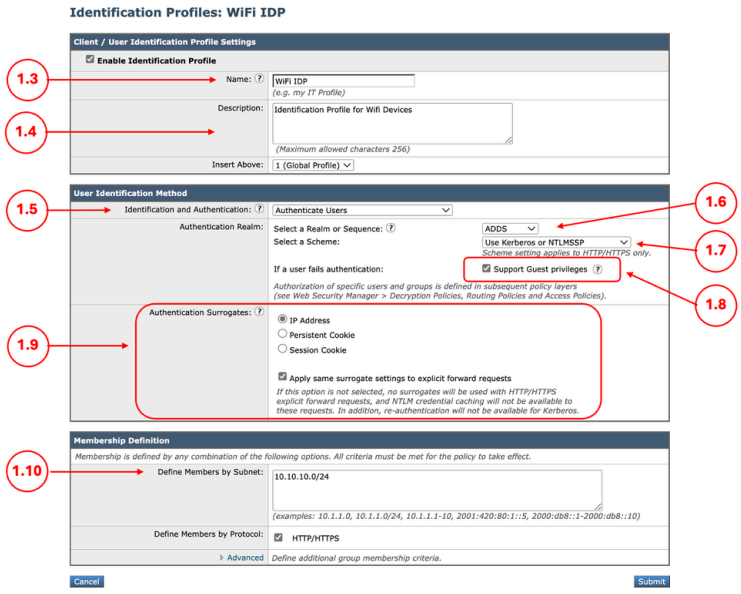
- Managed Devices: Company-issued laptops that are fully authenticated and have the SWA decryption certificate installed. These devices are trusted and typically subject to standard corporate access policies.
- Unmanaged/Guest Devices: Personal laptops and mobile devices that are unauthenticated and lack the SWA decryption certificate.

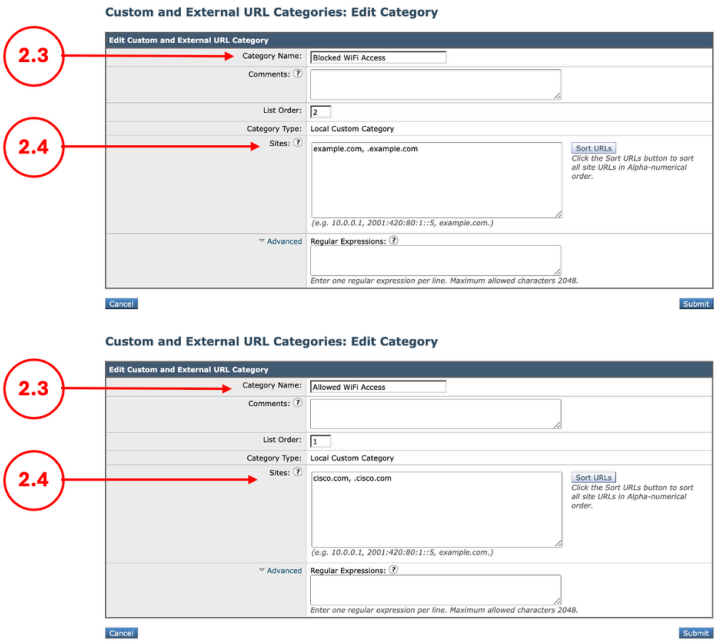
Objective:
The company aims to implement restrictive web access policies for unmanaged devices, limiting their connectivity to a specific subset of allowed URLs while ensuring that corporate resources remain secure.

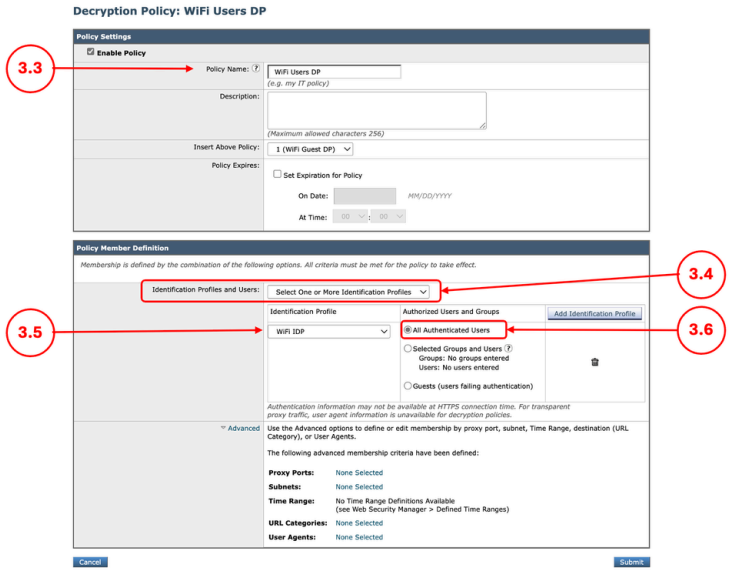
Note: Since the Decryption Certificate is not trusted on the unmanaged devices, you cannot decrypt the HTTPS traffic and the action must be set to pass through.

Configuration Steps

Step 1. Create Identification Profile.	**Step 1.1.** From the SWA GUI, navigate to **Web Security Manager** and select Identification **Profile**. **Step 1.2.** Click **Add Identification Profile**. **Step 1.3.** Define a **Name** for the Profile. **Step 1.4.** (Optional) Define the **Description**. **Step 1.5.** Choose **Authenticate Users** in **Identification and Authentication**. **Step 1.6.** Choose the Active Directory realm from **Select a Realm or Sequence**. **Step 1.7.** From **Select a Scheme**, select the desired authentication protocols. **Tip**: Do not choose **Basic** Authentication in the **Select a Scheme** list. **Step 1.8.** Select the check box for **Support Guest privileges**. **Step 1.9.** (Optional) Depends on your design, you can enable the Surrogate, by enabling the **Apply same surrogate settings to explicit forward requests**.

	Caution: Since you cannot decrypt the traffic, in the transparent deployment do not select **Persistent Cookie** or **Session Cookie**. **Step 1.10.** Define the IP address subnet in, **Define Members by Subnet**. **Step 1.11. Submit** and **Commit** the changes.  *Image - Define the Identification Profile*
Step 2. (Optional) Create the Custom URL Categories for Allowed and Blocked URLs	**Step 2.1.**From the GUI Navigate to**Web Security Manage**r and choose**Custom and External URL Categories**. **Step 2.2.**Click**Add Category** to create a new Custom URL Category. **Step 2.3.**Enter**Name**for the new category. **Step 2.4.**Define the domain and/or subdomains of the websites that you want to block the access. **Step 2.5.Submit**the changes. **Step 2.6.** Use the same steps to create a URL category foe the website that you are allowing the access.

	 *Image - Define Custom URL Category*
Step 3. Create Decryption Policy for Managed Devices	**Step 3.1.** From the GUI, Navigate to**Web Security Manager** and choose**Decryption Policies** **Step 3.2.**Click **Add Policy**. **Step 3.3.**Enter**Name** for the new policy. **Step 3.4.** Choose Select **One or More Identification Profiles** from **Identification Profiles and Users** drop down menu. **Step 3.5.**Select the**Identification Profile** that was created in **Step 1**. **Step 3.6.** Select **All Authenticated Users**. **Step 3.7.**Click**Submit**.



Create Decryption Policy for Managed Devices

Step 3.8. In **Decryption Policies** page, click the link from **URL Filtering** for the new policy.

Step 3.9. (Optional) You can add any Custom URL Category by click on **Select Custom Categories** and choose **Include in Policy** in front of the category names

Step 3.10. Configure the Action for each **Custom and External URL Category Filtering** and **Predefined URL Category** Filtering.

Step 3.11. Click **Submit**

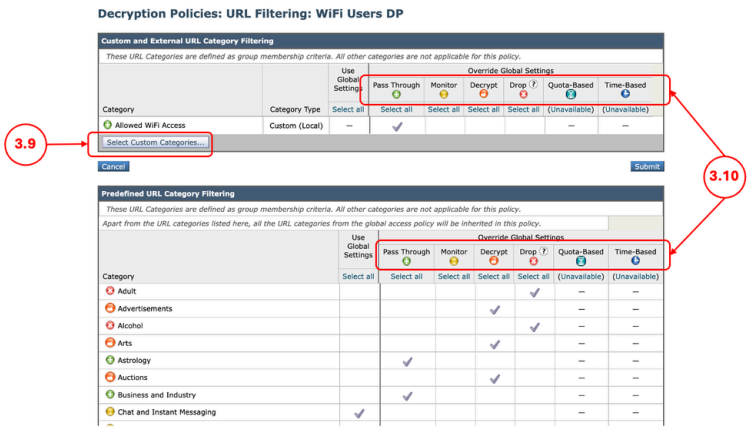


Image - Configure Action for Decryption Policy

Step 4. Create Decryption Policy for Unmanaged Devices

Step 4.1. From the GUI, Navigate to**Web Security Manager** and choose**Decryption Policies**

Step 4.2. Click **Add Policy**.

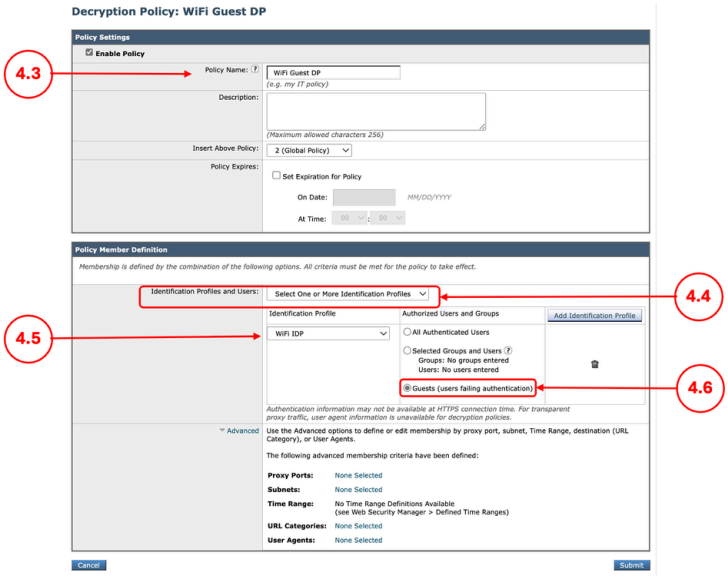
Step 4.3. Enter**Name** for the new policy.

Step 4.4. Choose Select **One or More Identification Profiles** from **Identification Profiles and Users** drop down menu.

Step 4.5. Select the**Identification Profile** that was created in **Step 1**.

Step 4.6. Select **Guests (users failing authentication)**.

Step 4.7. Click**Submit**.



Create Decryption Policy for Unmanaged Devices

Step 4.8. In **Decryption Policies** page, click the link from **URL Filtering** for the new policy.

Step 4.9. (Optional) You can add any Custom URL Category by click on **Select Custom Categories** and choose **Include in Policy** in front of the category names

Step 4.10. Configure the Action for each **Custom and External URL Category Filtering** and **Predefined URL Category** Filtering.

Note: Do not use **Decrypt** as the action, since the SWA decryption certificate is not trusted on the unmanaged devices.

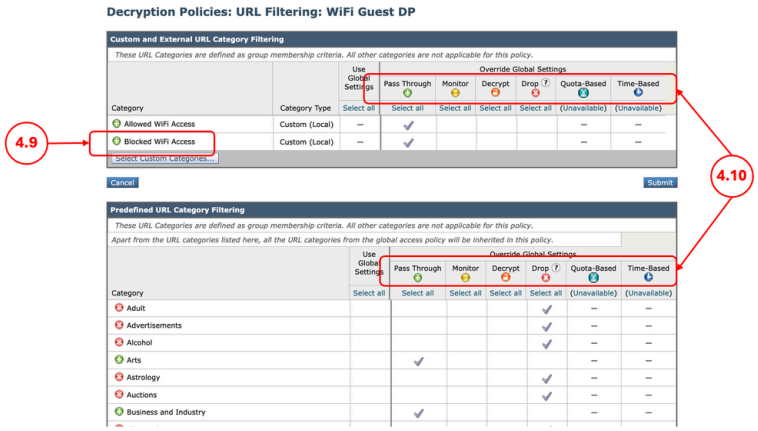


Image - Decryption Action for Unmanaged Devices

Step 4.11. Scroll down on the Uncategorized URLs section choose the proper action.

Image - Uncategorized URLs

Tip: For the security perspective it is best to set the action to **Drop**, in case any URL needs access, you can add them in the Custom URL Category assigned to the Policy.

Step 4.12. Click **Submit**

Step 5. Create Access Policy for Managed Devices

Step 5.1. From the GUI, Navigate to**Web Security Manager** and choose**Access Policies**

Step 5.2. Click **Add Policy**.

Step 5.3. Enter**Name** for the new policy.

Step 5.4. Choose Select **One or More Identification Profiles** from **Identification Profiles and Users** drop down menu.

Step 5.5. Select the**Identification Profile** that was created in **Step 1**.

Step 5.6. Select **All Authenticated Users**.

Step 5.7. Click**Submit**.

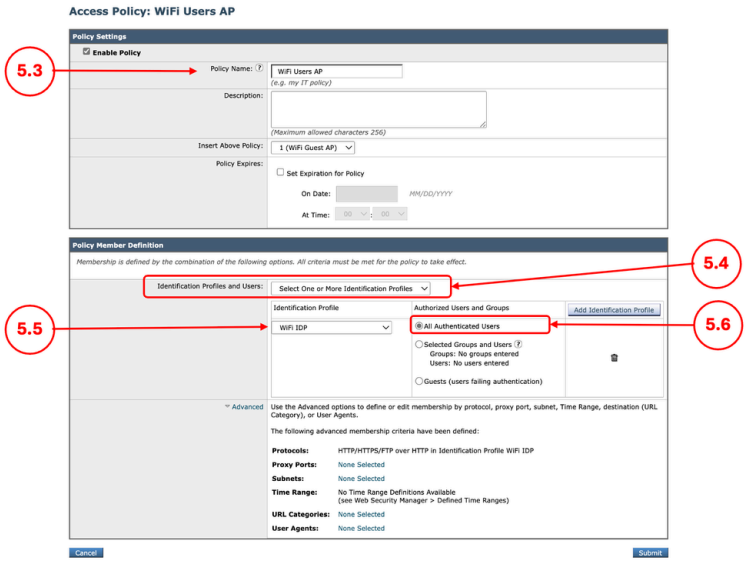


Image - Access Policy for Managed Devices

Step 5.8. In **Access Policies** page, click the link from **URL Filtering** for the new policy.

Step 5.9. (Optional) You can add any Custom URL Category by click on **Select Custom Categories** and choose **Include in Policy** in front of the category names

Step 5.10. Configure the Action for each **Custom and External URL Category Filtering** and **Predefined URL Category** Filtering.

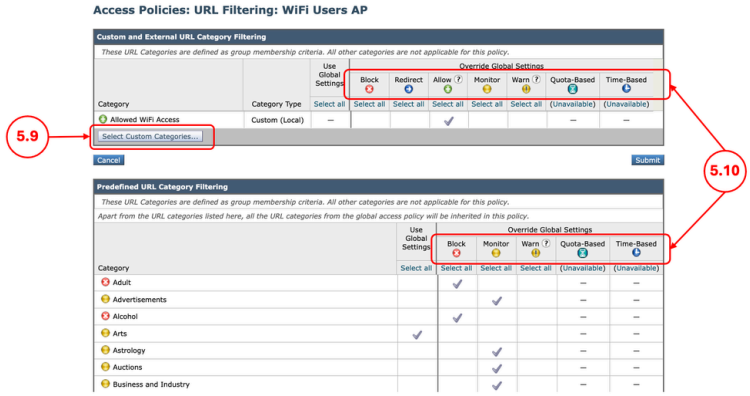


Image - Access Policy URL Filtering for Managed Devices

Step 5.11. Click **Submit**.

Step 6. Create Access Policy for Unmanaged Devices

Step 6.1. From the GUI, Navigate to**Web Security Manager** and choose**Access Policies**

Step 6.2. Click **Add Policy**.

Step 6.3. Enter**Name** for the new policy.

Step 6.4. Choose Select **One or More Identification**

Profiles from **Identification Profiles and Users** drop down menu.

Step 6.5. Select the**Identification Profile** that was created in **Step 1**.

Step 6.6. Select **Guests (users failing authentication)**.

Step 6.7. Click**Submit**.

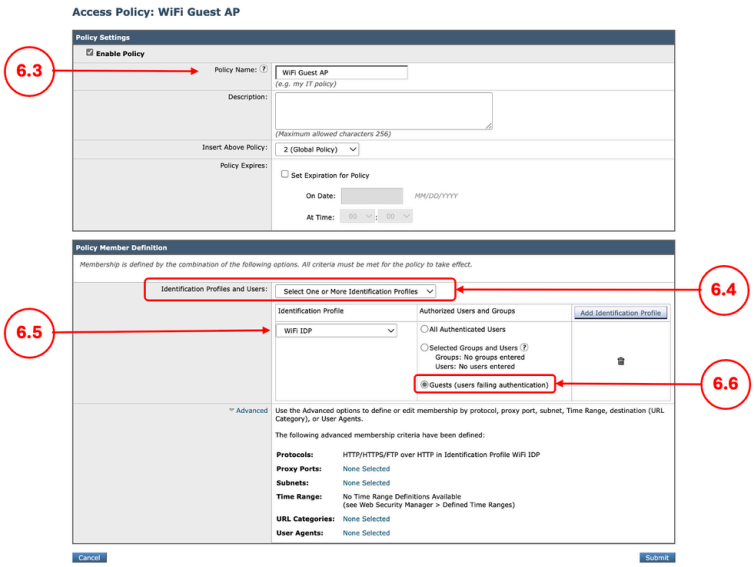


Image - Access Policy for Unmanaged Devices

Step 6.8. In **Access Policies** page, click the link from **URL Filtering** for the new policy.

Step 6.9. (Optional) You can add any Custom URL Category by click on **Select Custom Categories** and choose **Include in Policy** in front of the category names

Step 6.10. Configure the Action for each **Custom and External URL Category Filtering** and **Predefined URL Category** Filtering.

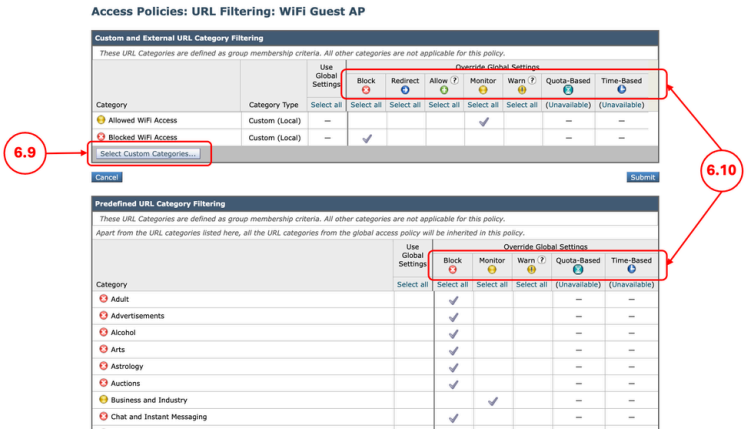


Image - Access Policy URL Filtering for Unmanaged Devices

Step 6.11. Scroll down on the Uncategorized URLs section choose the proper action.

Image - Access Policy Uncategorized URLs

Tip: For the security perspective it is best to set the action to **Block**, in case any URL needs access, you can add them in the Custom URL Category assigned to the Policy.

Step 6.12. Click **Submit**

Step 7. (Optional) Create Cisco Data Security Policy for Managed Devices

Note: If you do not want to filter the upload traffic for manged devices, you can skip this step.

Step 7.1. From the GUI, Navigate to**Web Security Manager** and choose **Cisco Data Security**.

Step 7.2. Click **Add Policy**.

Step 7.3. Enter**Name** for the new policy.

Step 7.4. Choose Select **One or More Identification Profiles** from **Identification Profiles and Users** drop down menu.

Step 7.5. Select the**Identification Profile** that was created in **Step 1**.

Step 7.6. Select **All Authenticated Users**..

Step 7.7. Click**Submit**.

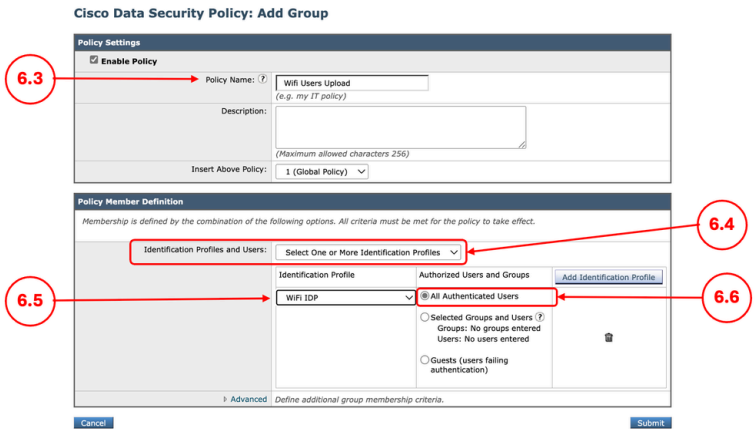


Image - Cisco Data Security Policy for Managed Devices

Step 7.8. In **Cisco Data Security Policies** page, click the link from **URL Filtering** for the new policy.

Step 7.9. (Optional) You can add any Custom URL Category by click on **Select Custom Categories** and choose **Include in Policy** in front of the category names

Step 7.10. Configure the Action for each **Custom and External URL Category Filtering** and **Predefined URL Category** Filtering.

Image - Upload Action for Managed Devices

Step 7.11. Click **Submit**.

Step 8. (Optional) Create Cisco Data Security Policy for Unmanaged Devices

Note: If you do not want to filter the upload traffic for unmanged devices, you can skip this step.

Step 8.1. From the GUI, Navigate to**Web Security Manager** and choose **Cisco Data Security**.

Step 8.2. Click **Add Policy**.

Step 8.3. Enter**Name** for the new policy.

Step 8.4. Choose Select **One or More Identification Profiles** from **Identification Profiles and Users** drop down menu.

Step 8.5. Select the**Identification Profile** that was created in **Step 1**.

Step 8.6. Select **All Authenticated Users**..

Step 8.7. Click**Submit**.

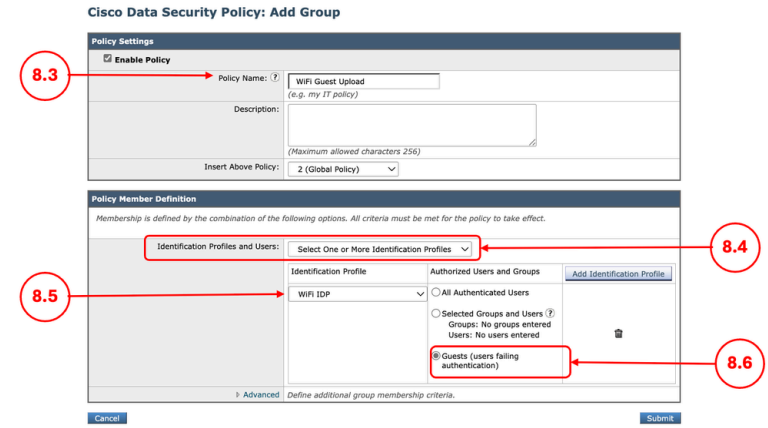


Image - Cisco Data Security Policy for Unmanaged Devices

Step 8.8. In **Cisco Data Security Policies** page, click the link from **URL Filtering** for the new policy.

Step 8.9. (Optional) You can add any Custom URL Category by click on **Select Custom Categories** and choose **Include in Policy** in front of the category names

Step 8.10. Configure the Action for each **Custom and External URL Category Filtering** and **Predefined URL Category** Filtering.

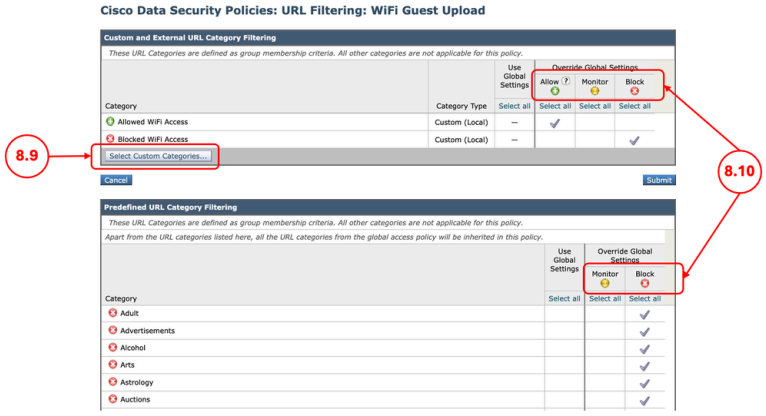


Image - Upload Action for Unmanaged Devices

Step 8.11. Scroll down on the Uncategorized URLs section choose the proper action.

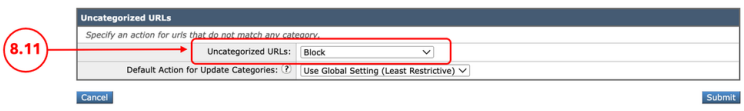


Image - Upload Action for Uncategorized URLs

Tip: For the security perspective it is best to set the action to **Block**, in case any URL needs access, you can add them in the Custom URL Category assigned

	 to the Policy. **Step 8.12.** Click **Submit**
Step 9. Saving the Changes	**Step 9.1. Commit** the changes

Related Information

- User Guide for AsyncOS 15.0 for Cisco Secure Web Appliance - LD (Limited Deployment) - Troubleshooti...
- Block Executable File Download in SWA
- Block Upload Traffic in Secure Web Appliance
- Block Traffic in Secure Web Appliance
- Bypass Authentication in Secure Web Appliance
- Configure Microsoft O365 Tenant Restriction in SWA
- Configure Secure Web Appliance Initial Setup
- Bypass Microsoft Updates Traffic in Secure Web Appliance