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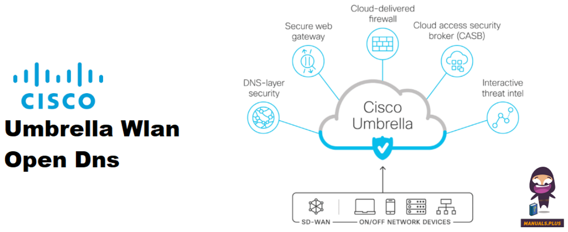

CISCO Umbrella Wlan Open Dns User Guide

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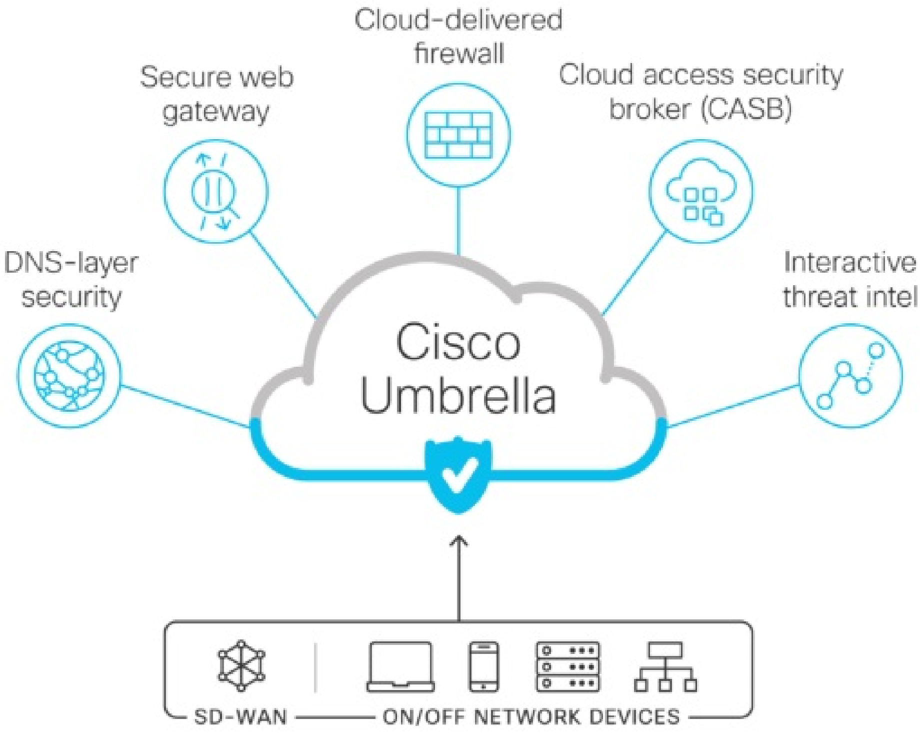


Cisco Umbrella WLAN (OpenDNS)

The Cisco Umbrella WLAN (OpenDNS) provides a cloud-delivered network security service at the Domain Name System (DNS) level, with automatic detection of both known and emergent threats. This feature allows you to block sites that host malware, bot networks, and phishing before they actually become malicious.

Cisco Umbrella WLAN provides

- Policy configuration per user group at a single point.
- Policy configuration per network, group, user, device, or IP address.

The following is policy priority order:

1. Local policy
2. AP group
3. WLAN

- Visual security activity dashboard in real time with aggregated reports.
- Schedule and send reports through email.
- Support up to 60 content categories, with a provision to add custom-allowed list and blocked list entries.

This feature does not work in the following scenarios:

- If an application or host use an IP address directly, instead of using DNS to query domain names.
- If a client is connected to a web proxy and does not send a DNS query to resolve the server address.

Note

- For more information about integrating this feature, see the Cisco Umbrella WLAN Integration Guide at
- https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-4/b_cisco_umbrella_wlan_integration_guide.html.

Configuring Cisco Umbrella WLAN GUI

Before you begin

- You should have an account with Cisco Umbrella.
- You should have an API token from Cisco Umbrella.

Procedure

- Step 1 Choose Security > Umbrella > General. The Umbrella General Configuration window is displayed.
- Step 2 Check the Umbrella Global Status check box to enable Umbrella configuration.
- Step 3 In the Umbrella-ApiToken field, enter the API-token obtained from the Umbrella Server account.
- Step 4 In the Profile Name field, enter the profile name that is to be used in the Umbrella configuration.
- Step 5 Click Add.
- Step 6 Map the profile to the corresponding WLAN or AP group.
    - To map the profile to a WLAN, choose WLAN > WLAN ID > Advanced, and from the Umbrella Profile, select the desired profile. An administrator can configure Umbrella in a WLAN in the following modes under the WLAN advanced tab:
- DHCP Proxy for DNS override This is the interface-level configuration, which forms part of the DHCP process to propagate the Umbrella IP address to all WLANs associated to the interface.
- Umbrella Mode Force (default) This mode is enforced per WLAN, which blocks intentional client activity after the client is associated to aWLAN.
- Umbrella Mode Ignore (default) The controller honors the DNS server used by the client, which could be the Umbrella server or enterprise/external DNS.
    - To map the profile to an AP group, choose WLANs > Advanced > AP Groups, select the corresponding AP group, click the WLAN tab, and mouse over the blue button and select Umbrella Profile. To view Umbrella mapping, choose Security > Umbrella > General and click the Profile Mapped Summary hyperlink.

Note
Each Cisco Umbrella profile will have a unique Umbrella-Identity generated on the controller (in the format Controller name _profile name). This will be pushed to the associated Cisco Umbrella account in the cloud.

- Step 7 Click Apply.

What to do next

1. From the Cisco Umbrella dashboard, verify that your controller shows up under Device Name, along with their identities controller.
2. Create classification rules for the user roles, for example, rules for employees and nonemployees.
3. Configure policies on the Cisco Umbrella server.

Configuring Cisco Umbrella WLAN CLI

This section describes the procedure to configure Cisco Umbrella for a wireless LAN (WLAN) or an access point (AP) group in a WLAN.

Before you begin

- You should have an account with Cisco Umbrella.
- You should have an API token from Cisco Umbrella.

Procedure

Example:

- (Cisco Controller) > config opendns enable
- Enables the Cisco Umbrella global configuration.

Step 3 config opendns api-token api-token

Example:

- (Cisco Controller) > config opendns api-token D72996C18DC334FB2E3AA46148D600A4001E5997
- Registers the Cisco Umbrella API token on the network.

Step 4 config opendns profile create profile name

Example:

- (Cisco Controller) > config opendns profile create profile1
  Creates a Cisco Umbrella profile that can be applied over a WLAN.

Step 5 config wlan opendns-profile wlan-id profile-name enable

Example

- (Cisco Controller) > config wlan opendns-profile wlan1 profile1 enable
- Applies the Cisco Umbrella profile to a WLAN.

Step 6 config wlan group opendns-profile wlan-id site-name profile-name enable

Example:

- (Cisco Controller) >config wlan ap group opendns-profile wlan1 apgrp1 profile1
- (Optional) Applies the Cisco Umbrella profile to an AP group with the WLAN.

Step 7 config policy policy-name create

Example:

- (Cisco Controller) > config policy ipad create
- Creates a policy name.
- In the controller, the policy is a generic term that specifies a rule and the associated action when that rule criterion is met for a given client.
- You can create policy and have rule on that by saying if the rolename from AAA server comes as an employee take action to apply Cisco Umbrella profile associated to that policy. The Cisco Umbrella profile is applied to the client if the WLAN of that client is mapped for this policy.

Step 8 config policy policy-name action opendns-profile-name enable

Example:

- (Cisco Controller) > config policy ipad action opendns-profile-name enable
- Attaches the policy name to the Cisco Umbrella profile.

What to do next
Configure policies in opendns.com.

- Configure granular policies to block sites based on the category of each profile (profiles are listed as identities).
- Add allowed list and blocked list rules for each profile.

Configuring Local Policies for Cisco Umbrella

When mapped to local policy, the Cisco Umbrella allows for a granular differentiated user browsing experience based on dynamic evaluation of attributes (user role, device type, and so on).Use this procedure to configure user role based local policy and tie the corresponding Cisco Umbrella profile to it. This procedure also provides information about how to map a local policy to a WLAN.

Procedure

- **Step 1** Choose Security > Local Policies > New.
  This opens the new policy creation page.
  - In the Policy Name field, enter the local policy name.
  - Click Apply.
- **Step 2** From the policies listed under Policy List, choose a Policy Name to configure the Cisco Umbrella profile.
  - From the Match Criteria sub-section, enter the Match Role String.
  - From the Action sub-section, select the required option from the Umbrella Profile drop-down list.
  - Click Apply.
- **Step 3** Choose WLAN > WLAN ID > Policy Mapping.
  - In the Priority Index field, enter the priority index number.
  - From the Local Policy drop-down list, choose a value.
  - Click Add.

What to do next

Verify whether the policies you created are working, by connecting a client to the WLAN.

Specifications

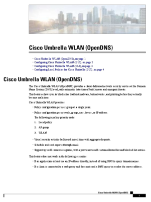
- **Product Name**: Cisco Umbrella WLAN (OpenDNS)
- **Feature:** Cloud-delivered network security service at the DNS level
- **Threat Detection**: Automatic detection of known and emergent threats
- **Functionality**: Block sites hosting malware, bot networks, and phishing

Frequently Asked Questions

Q: How can I obtain the API token for the Cisco Umbrella WLAN configuration?
A: The API token can be obtained from the Umbrella Server account. Refer to the Integration Guide for detailed instructions.

Q: Can I configure multiple profiles for different WLANs using Cisco Umbrella?
A: Yes, an administrator can configure multiple profiles and map them to different WLANs or AP groups as needed.

Documents / Resources

 Cisco Umbrella WLAN (OpenDNS) • Cisco Umbrella WLAN (OpenDNS), on page 1 • Configuring Cisco Umbrella WLAN (GUI), on page 2 • Configuring Cisco Umbrella WLAN (CLI), on page 3 • Configuring Local Policies for Cisco Umbrella (GUI), on page 4 Cisco Umbrella WLAN (OpenDNS) The Cisco Umbrella WLAN (OpenDNS) provides a cloud-delivered network security service at the Domain Name System (DNS) level, with automatic detection of both known and emergent threats. This feature allows you to block sites that host malware, bot networks, and phishing before they actually become malicious. Cisco Umbrella WLAN provides: • Policy configuration per user group at a single point. • Policy configuration per network, group, user, device, or IP address. The following is policy priority order: 1. Local policy 2. AP group 3. WLAN • Visual security activity dashboard in real time with aggregated reports. • Schedule and send reports through email. • Support up to 60 content categories, with a provision to add custom allowed list and blocked list entries. This feature does not work in the following scenarios: • If an application or host use an IP address directly, instead of using DNS to query domain names. • If a client is connected to a web proxy and does not send a DNS query to resolve the server address. Cisco Umbrella WLAN (OpenDNS) 1	**CISCO Umbrella Wlan Open Dns** [pdf] User Guide Umbrella Wlan Open Dns, Wlan Open Dns, Open Dns, Dns

References

- **User Manual**