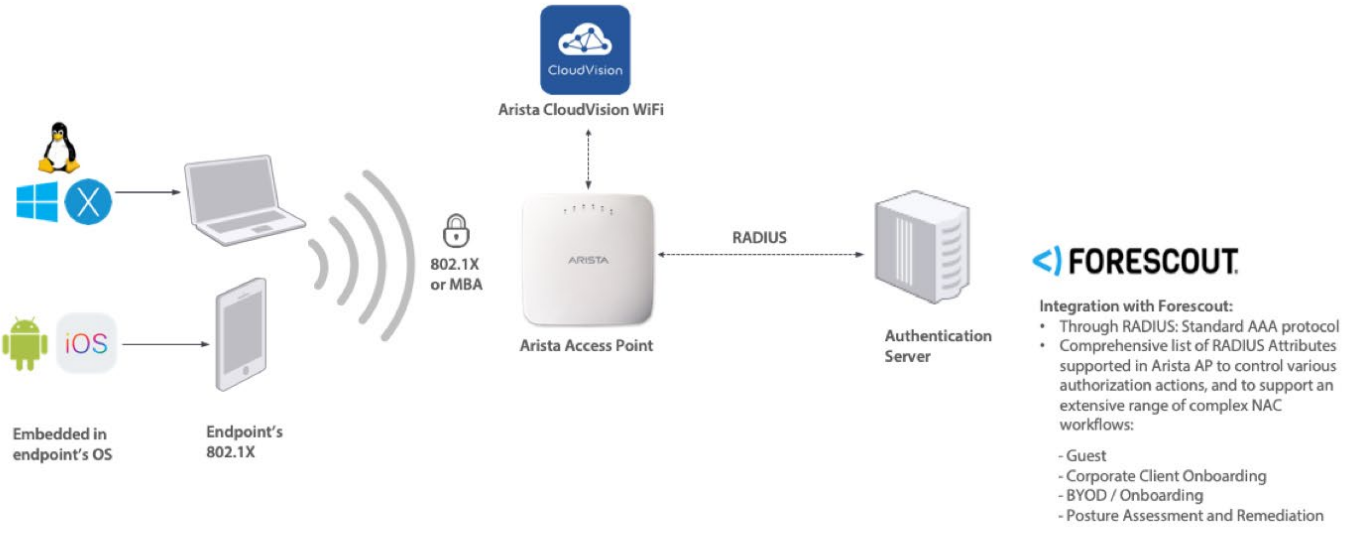
Forescout Integration with Arista WiFi

Arista WiFi supports WiFi client authentication with Forescout NAC server using standard RADIUS protocol. The Forescout NAC solution offers the following advantages:

- Comprehensive visibility of all devices connected to the network
- Automated posture assessment and compliance
- Flexible policy enforcement across heterogenous networks

The following figure shows the logical architecture and the possible workflows.



An Arista access point (AP) supports WiFi client authentication using 802.1X or MAC-Based Authentication (MBA) and exchanges RADIUS messages with Forescout. The following workflows are supported:

- Guest Onboarding
- Corporate client onboarding
- BYOD (Bring Your Own Device)
- MAC Authentication
- Posture assessment and remediation

Arista APs also support RADIUS attributes for various authorization actions such as role-based access control (RBAC), dynamic VLAN assignment, dynamic bandwidth assignment, and session timeout .

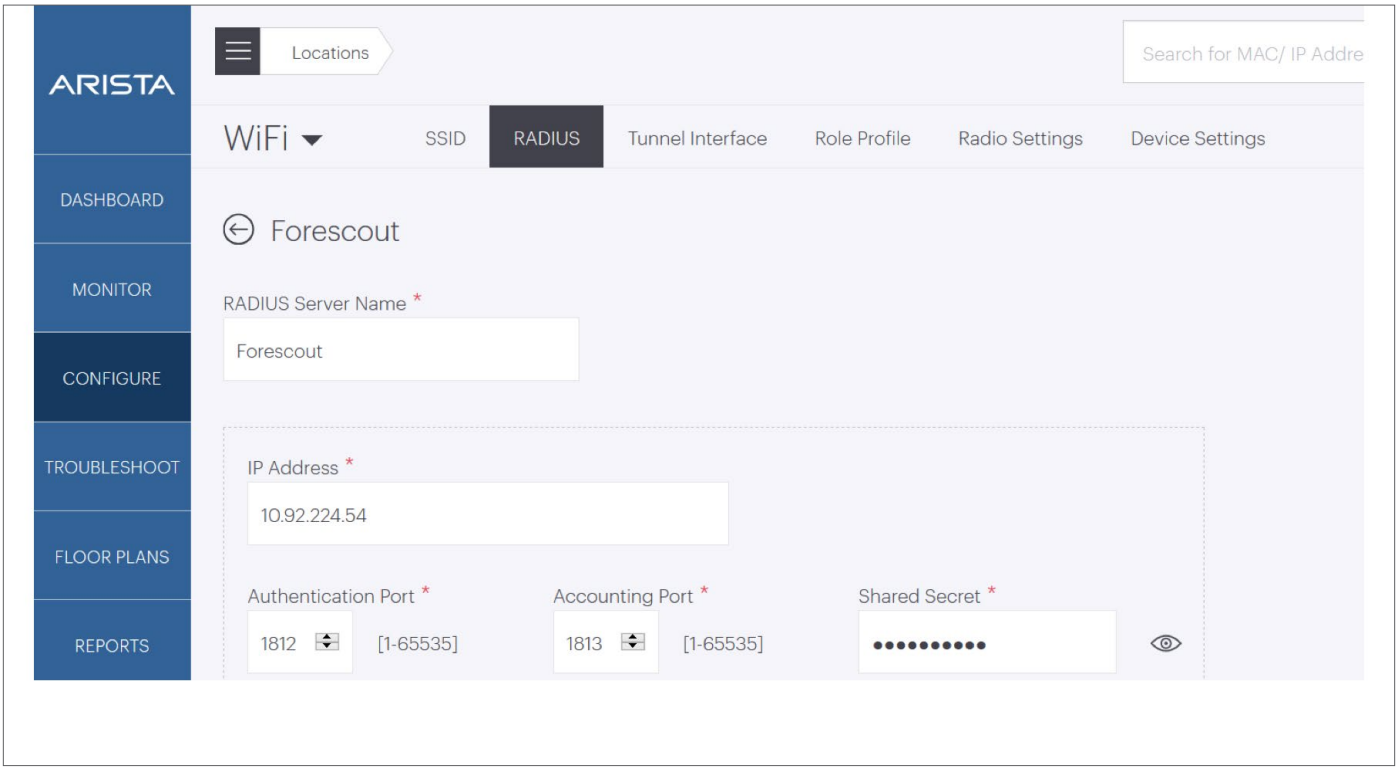
This document describes the steps to integrate Arista APs with the Forescout NAC by appropriately configuring CloudVision WiFi (CVW) and Forescout. The information in this document holds for Arista WiFi version 8.8.1 and Forescout version 8.1.0 (and later versions of these).

Configure CloudVision WiFi for Forescout

The CVW configuration broadly consists of two steps: add Forescout NAC server as the RADIUS server and configure the SSID to use this server for the client authentication workflow. The workflow described here is the corporate client using 802.1X.

Add Forescout as RADIUS Server

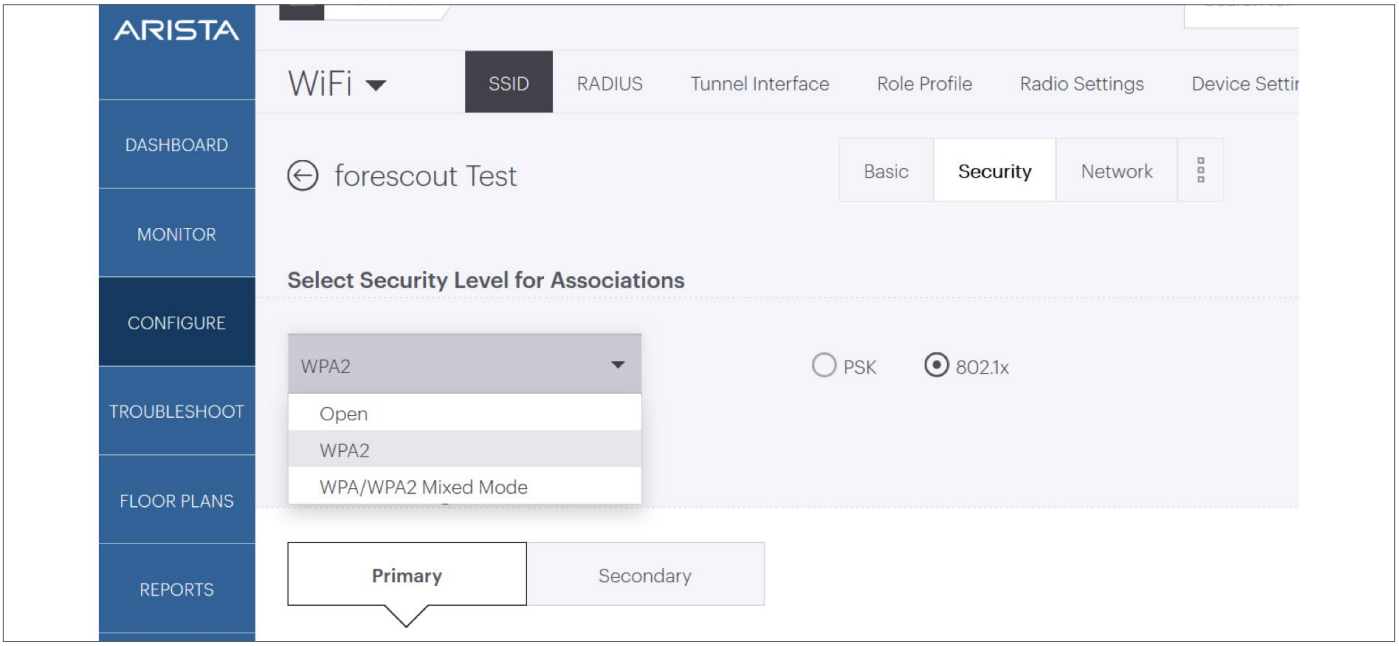
The steps to add RADIUS server are as follows:
Go to Configure > WiFi > RADIUS.
Click Add RADIUS Server.
Enter the Forescout server name, IP address, authentication and accounting ports, and shared secret.



Configure the Corporate SSID

The steps to configure the Corporate SSID for 802.1X are as follows:

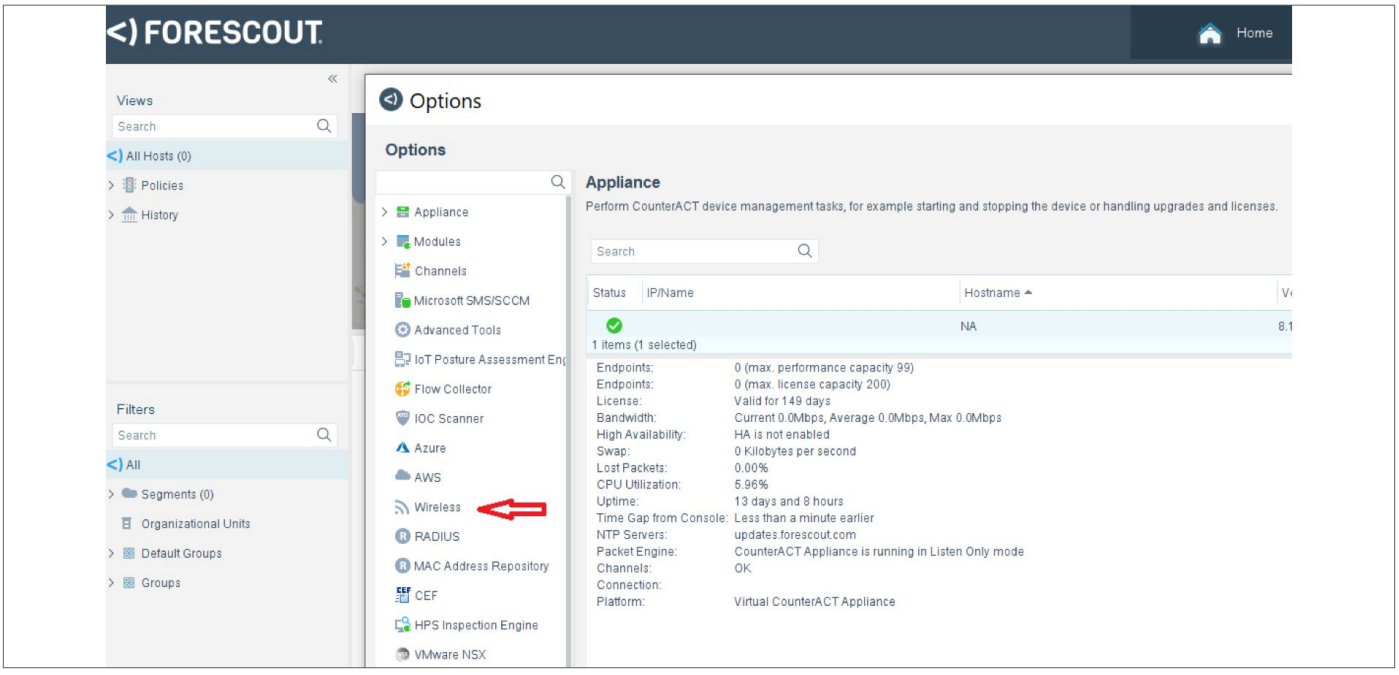
1. Go to **Configure** > **WiFi** and select the SSID you want to configure or add a new SSID.
2. On the **Security** tab, under **Select Security Level for Associations**, select **WPA2** or **WPA3** and select the **802.1X** radio button.
3. Select the Forescout server you added in the previous section as the **Authentication Server** in the **Primary** tab. You can similarly configure the secondary server.



Configure Forescout for Arista WiFi

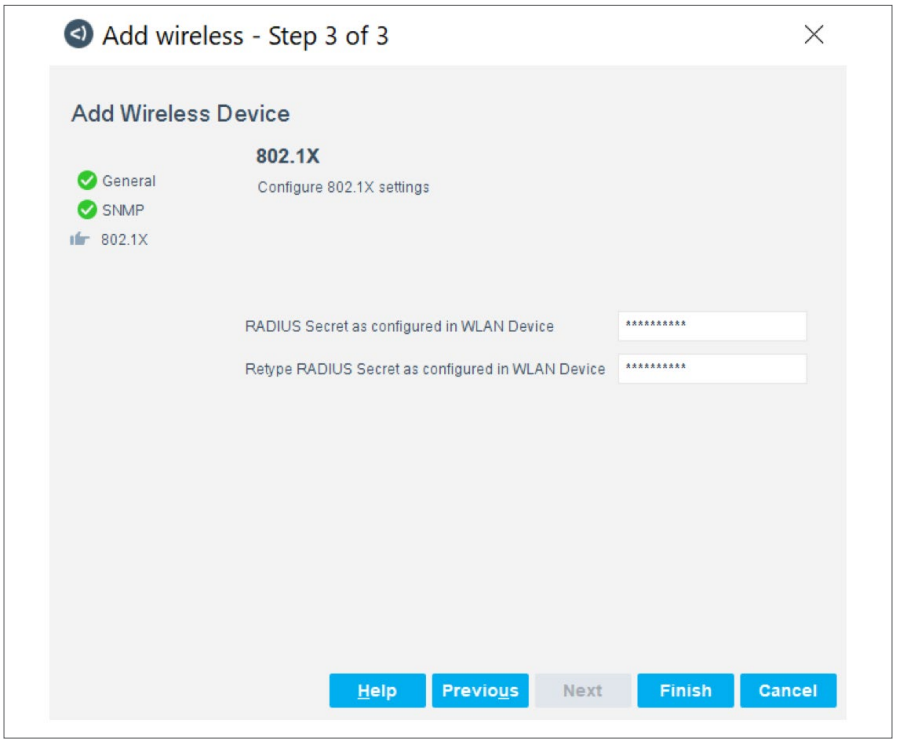
The basic configuration involves adding Arista WiFi as a NAS entity in the Forescout server so as to enable RADIUS authentication with Arista APs. The steps to do so are as follows:

1. Log in to the Forescout console. Click on the **Options** wheel on the top right corner of the page. The Options window appears.
2. Select **Wireless** in the Options window as shown in the following figure.

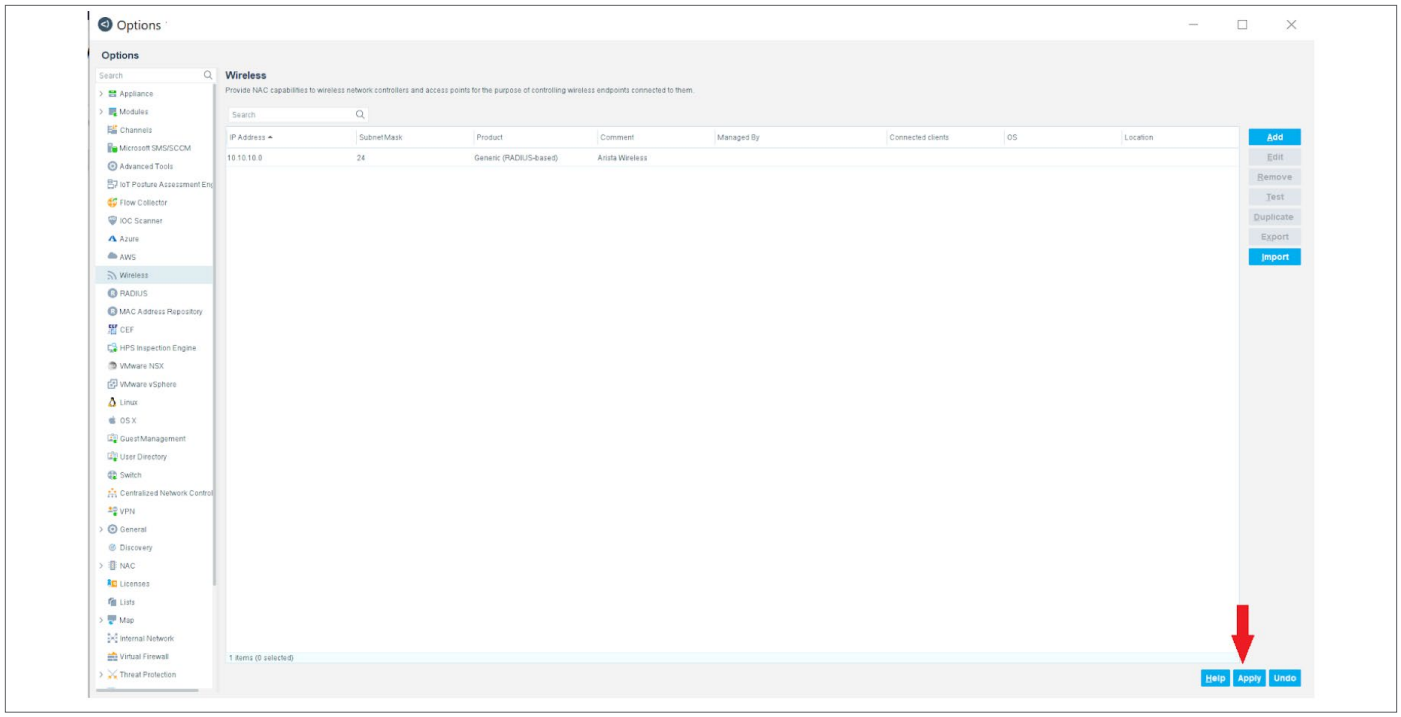


3. The Add wireless - Step 1 window appears.
   a. Select **Generic (RADIUS-based)** in the **Product** dropdown.
   b. In the **Address** field, add IP addresses of the APs that will perform RADIUS authentication with Forescout. You can bulk import the list of IP addresses from a ".csv" file or you can enter the subnet used by the APs as shown in the following figure.

4. Click **Next** to move to Add wireless - Step 2.
5. In the Add wireless - Step 2 of 3 window, leave the Use SNMP box unchecked, and simply click **Next** to move to Step 3.
6. In the Step 3 window, enter the same shared secret that you configured in CVW when adding Forescout as the RADIUS server.



7. Click **Next**.
8. A table summarizing the configuration settings appears. Click **Apply**.



The Arista APs with the IP addresses you entered have now been added to Forescout as NAS entities.

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