



# Configuring AAA Overrides for FlexConnect

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## Authentication, Authorization, Accounting Overrides

The Allow Authentication, Authorization, Accounting (AAA) Override option of a WLAN enables you to configure the WLAN for authentication. It enables you to apply VLAN tagging, QoS, and ACLs to individual clients based on the returned RADIUS attributes from the AAA server.

AAA overrides for FlexConnect access points introduce a dynamic VLAN assignment for locally switched clients. AAA overrides for FlexConnect also support fast roaming (Opportunistic Key Caching [OKC]/ Cisco Centralized Key management [CCKM]) of overridden clients.

VLAN overrides for FlexConnect are applicable for both centrally and locally authenticated clients. VLANs can be configured on FlexConnect groups.

If a VLAN on the AP is configured using the WLAN-VLAN, the AP configuration of the corresponding ACL is applied. If the VLAN is configured using the FlexConnect group, the corresponding ACL configured on the FlexConnect group is applied. If the same VLAN is configured on the FlexConnect group and also on the AP, the AP configuration, with its ACL takes precedence. If there is no slot for a new VLAN from the WLAN-VLAN mapping, the latest configured FlexConnect group VLAN is replaced.

If the VLAN that was returned from the AAA is not present on the AP, the client falls back to the default VLAN configured for the WLAN.

Before configuring a AAA override, the VLAN must be created on the access points. These VLANs can be created by using the existing WLAN-VLAN mappings on the access points, or by using the FlexConnect group VLAN-ACL mappings.

### AAA Override for IPv6 ACLs

In order to support centralized access control through a centralized AAA server such as the Cisco Identity Services Engine (ISE) or ACS, the IPv6 ACL can be provisioned on a per-client basis using AAA Override attributes. In order to use this feature, the IPv6 ACL must be configured on the controller and the WLAN must be configured with the AAA Override feature enabled. The AAA attribute for an IPv6 ACL is *Airespace-IPv6-ACL-Name* similar to the *Airespace-ACL-Name* attribute used for provisioning an IPv4-based

ACL. The AAA attribute-returned contents should be a string that is equal to the name of the IPv6 ACL as configured on the controller.

This section contains the following subsections:

## Restrictions on AAA Overrides for FlexConnect

- Before configuring a AAA override, VLANs must be created on the access points. These VLANs can be created by using the existing WLAN-VLAN mappings on the access points, or by using the FlexConnect group VLAN-ACL mappings.
- At any given point, an AP has a maximum of 16 VLANs. First, the VLANs are selected as per the AP configuration (WLAN-VLAN), and then the remaining VLANs are pushed from the FlexConnect group in the order that they are configured or displayed in the FlexConnect group. If the VLAN slots are full, an error message is displayed.
- VLAN, ACL, QoS, Rate limiting are supported with local and central switching WLAN.
- If you assign multiple VLAN names to a VLAN ID, the client display represents the first matching VLAN name that is assigned to the VLAN ID.

## Configuring AAA Overrides for FlexConnect on an Access Point (GUI)

**Step 1** Choose **Wireless > All > APs**.

The **All APs** page is displayed. This page lists the access points associated with the controller.

**Step 2** Click the corresponding AP name.

**Step 3** Click the **FlexConnect** tab.

**Step 4** Enter a value for **Native VLAN ID**.

**Step 5** Click the **VLAN Mappings** button to configure the AP VLANs mappings.

The following parameters are displayed:

- **AP Name**—The access point name.
- **Base Radio MAC**—The base radio of the AP.
- **WLAN-SSID-VLAN ID Mapping**—For each WLAN configured on the controller, the corresponding SSID and VLAN IDs are listed. Change a WLAN-VLAN ID mapping by editing the VLAN ID column for a WLAN.
- **Centrally Switched WLANs**—If centrally switched WLANs are configured, WLAN-VLAN mapping is listed.
- **AP Level VLAN ACL Mapping**—The following parameters are available:
  - **VLAN ID**—The VLAN ID.
  - **Ingress ACL**—The Ingress ACL corresponding to the VLAN.
  - **Egress ACL**—The Egress ACL corresponding to the VLAN.

Change the ingress ACL and egress ACL mappings by selecting the mappings from the drop-down list for each ACL type.

- **Group Level VLAN ACL Mapping**—The following group level VLAN ACL mapping parameters are available:
  - VLAN ID—The VLAN ID.
  - Ingress ACL—The ingress ACL for this VLAN.
  - Egress ACL—The egress ACL for this VLAN.

**Step 6** Click **Apply**.

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## Configuring VLAN Overrides for FlexConnect on an Access Point (CLI)

To configure VLAN overrides on a FlexConnect access point, use the following command:

```
config ap flexconnect vlan add vlan-id acl ingress-acl egress-acl ap_name
```

