



RADIUS VSA

- [Information About RADIUS VSA, on page 1](#)
- [Create an Attribute List, on page 2](#)
- [Create a AAA Policy and Map it to Attribute List, on page 3](#)
- [Map a AAA Policy to the WLAN Policy Profile, on page 4](#)
- [Map the WLAN Policy Profile to a WLAN, on page 5](#)

Information About RADIUS VSA

The Internet Engineering Task Force (IETF) draft standard specifies a method for communicating vendor-specific information between the network access server and the RADIUS server by using vendor specific attributes (VSA). VSA allow vendors to support their own extended attributes otherwise not suitable for general use. The controller uses these attributes value in authentication or accounting packets, or both based on specified usage format.

VSA contains these three elements:

- Type
- Length
- String (also known as data)
 - Vendor-ID
 - Vendor-Type
 - Vendor-Length
 - Vendor-Data

This feature is supported only in FlexConnect central authentication mode with local switching. FlexConnect local authentication mode is not supported.

This feature is supported only for wireless sessions.

This feature supports the following set of VSAs per WLAN for authentication and accounting requests, in addition to the existing AAA attributes.

Table 1: Newly Supported Attributes

| Attribute Name | Well-known Attribute | VSA Sub-attribute | Vendor ID |
|-------------------------|----------------------|-------------------|-----------|
| SVR-Zip-Code | 26 | 14 | 14369 |
| SVR-Device-Type | 26 | 17 | 14369 |
| SVR-Device-Model-Number | 26 | 18 | 14369 |
| SVR-Lat-Long | 26 | 19 | 14369 |
| SVR-Venue-Category | 26 | 20 | 14369 |
| SVR-Network-Type | 26 | 21 | 14369 |
| Aggregation-AAA | 26 | 22 | 14369 |
| BW-Venue-Id | 26 | 7 | 22472 |
| BW-Venue-TZ | 26 | 8 | 22472 |
| BW-Class | 26 | 10 | 22472 |
| BW-Venue-Description | 26 | 11 | 22472 |
| BW-ISO-Country-Code | 26 | 14 | 22472 |
| BW-E164-Country-Code | 26 | 15 | 22472 |
| BW-State-Name | 26 | 16 | 22472 |
| BW-City-Name | 26 | 17 | 22472 |
| BW-Area-Code | 26 | 18 | 22472 |
| BW-User-Group | 26 | 27 | 22472 |
| BW-Venue-Name | 26 | 29 | 22472 |
| BW-Operator-Name | 26 | 37 | 22472 |

Create an Attribute List

Procedure

| | Command or Action | Purpose |
|---------------|--|-----------------------------------|
| Step 1 | configure terminal Example: Device# configure terminal | Enters global configuration mode. |

| | Command or Action | Purpose |
|---------------|---|--|
| Step 2 | aaa attribute list <i>list</i> Example: Device(config)# aaa attribute list TEST | Creates a AAA attribute list. |
| Step 3 | attribute type <i>attribute-type</i> Example: Device(config-attr-list)# attribute type BW-City-Name "MUMBAI" | Specifies a AAA attribute type. |
| Step 4 | attribute type <i>attribute-type</i> Example: Device(config-attr-list)# attribute type BW-State-Name "MAHARASHTRA" | (Optional) Specifies a AAA attribute type. |
| Step 5 | attribute type <i>attribute-type</i> Example: Device(config-attr-list)#attribute type BW-Venue-Name "WANKHEDE" | (Optional) Specifies a AAA attribute type. |
| Step 6 | end Example: Device(config-attr-list)# end | Returns to Privileged EXEC mode. |

What to do next

Create a AAA policy and map the attribute list.

Create a AAA Policy and Map it to Attribute List

Procedure

| | Command or Action | Purpose |
|---------------|--|---|
| Step 1 | configure terminal Example: Device# configure terminal | Enters global configuration mode. |
| Step 2 | wireless aaa policy <i>aaa-policy</i> Example: Device(config)# wireless aaa policy policy-1 | Creates a new AAA policy. |
| Step 3 | attrlist authentication <i>authentication-attr-list</i> Example: | Configures VSA authentication attribute list. |

| | Command or Action | Purpose |
|---------------|--|---|
| | Device(config-aaa-policy)# attrlist authentication auth-attr-list | |
| Step 4 | attrlist accounting <i>accounting-attr-list</i> Example: Device(config-aaa-policy)# attrlist accounting acct-attr-list | Configures VSA accounting attribute list. |
| Step 5 | end Example: Device(config-aaa-policy)# end | Returns to Privileged EXEC mode. |

What to do next

Map the AAA policy to the WLAN policy profile.

Map a AAA Policy to the WLAN Policy Profile

Procedure

| | Command or Action | Purpose |
|---------------|--|--|
| Step 1 | configure terminal Example: Device# configure terminal | Enters global configuration mode. |
| Step 2 | wireless profile policy <i>profile-policy</i> Example: Device(config)# wireless profile policy EAP-AKA | Creates a new wireless policy profile. |
| Step 3 | aaa-policy <i>aaa-policy</i> Example: Device(config-wireless-policy)# aaa-policy Verizon-aaa-policy | Creates a new AAA policy. |
| Step 4 | end Example: Device(config-wireless-policy)# end | Returns to Privileged EXEC mode. |

What to do next

Map the WLAN policy profile to a WLAN.

Map the WLAN Policy Profile to a WLAN

Procedure

| | Command or Action | Purpose |
|---------------|---|------------------------------------|
| Step 1 | configure terminal Example: Device# configure terminal | Enters global configuration mode. |
| Step 2 | wireless tag policy <i>policy-name</i> Example: Device(config)# wireless tag policy EAP-AKA | Creates a new policy tag. |
| Step 3 | wlan <i>wlan-profile-name</i> policy <i>aaa-policy</i> Example: Device(config-policy-tag)# wlan EAP-AKA policy EAP-AKA | Maps the policy profile to a WLAN. |
| Step 4 | end Example: Device(config-policy-tag)# end | Returns to Privileged EXEC mode. |

