

### **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.

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

#### Table 1: Newly Supported Attributes

## **Create an Attribute List**

#### Procedure

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

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

### 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	Enters global configuration mode.
	Example:	
	Device# configure terminal	
Step 2	wireless aaa policy aaa-policy	Creates a new AAA policy.
	Example:	
	Device(config)# wireless aaa policy policy-1	
Step 3	attrlist authentication authentication-attr-list	Configures VSA authentication attribute list.
	Example:	

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

#### 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	Enters global configuration mode.
	Example:	
	Device# configure terminal	
Step 2	wireless profile policy profile-policy	Creates a new wireless policy profile.
	Example:	
	Device(config)# wireless profile policy EAP-AKA	
Step 3	aaa-policy aaa-policy	Creates a new AAA policy.
	Example:	
	Device(config-wireless-policy)# aaa-policy Verizon-aaa-policy	
Step 4	end	Returns to Privileged EXEC mode.
	Example:	
	Device(config-wireless-policy)# end	

#### What to do next

Map the WLAN policy profile to a WLAN.

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## Map the WLAN Policy Profile to a WLAN

#### Procedure

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

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