



Cisco AireOS Controller to Cisco Catalyst 9800 Series Wireless Controller, Command Reference Mapping Guide

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Cisco AireOS Controller to Cisco Catalyst 9800 Series Wireless Controller - CLI Mapping

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Interface Configuration

Table 1: Interface Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
config interface create <i>vlan-name vlan-number</i>	vlan <i>vlan-number</i>
config interface vlan <i>vlan-name vlan-number</i>	no shutdown
config interface address dynamic-interface <i>vlan-name primary-ip-address subnet-mask</i>	interface vlan <i>vlan-number</i>
config interface dhcp dynamic-interface <i>vlan-name primary primary-ip-address secondary secondary-ip-address</i>	description " <i>vlan-name</i> "
	ip address <i>ip-address subnet-mask</i>
	ip helper-address <i>primary-ip-address</i>
	ip helper-address <i>secondary-ip-address</i>
	no shutdown

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config interface create 001-wifi 3001 config interface vlan 001-wifi 3001 config interface address dynamic-interface 001-wifi 10.1.224.2 255.255.224.0 10.1.224.1 config interface dhcp dynamic-interface 001-wifi primary 10.240.208.31 secondary 10.240.208.33</pre>	<pre>vlan 3001 no shutdown interface vlan 3001 description "001-wifi" ip address 10.1.224.2 255.255.224.0 ip helper-address 10.240.208.31 ip helper-address 10.240.208.33 no shutdown</pre>

Interface Configuration - IOS Global Parameters

Table 2: Interface Configuration - IOS Global Parameters

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config sysname <i>hostname</i> config logging syslog host <i>ip-address</i> config logging syslog level <i>critical</i> config logging syslog level <i>level</i> config time ntp server 1 <i>ip-address</i> config prompt <i>hostname</i> config sessions timeout <i>timeout-value</i></pre>	<pre>hostname <i>hostname</i> logging host <i>ip-address</i> logging trap <i>level</i> ntp server <i>ip-address</i> prompt <i>hostname</i> line console 0 exec-timeout <i>timeout-value</i></pre>
<pre>config sysname CORE_8540 config logging syslog host 10.240.222.27 config logging syslog level critical config logging syslog level 2 config time ntp server 1 10.240.222.1 config prompt CORE_8540 config sessions timeout 60</pre>	<pre>hostname CORE_8540 logging host 10.240.222.27 logging trap 2 ntp server 10.240.222.1 prompt CORE_8540 line console 0 exec-timeout 60</pre>

Radius Global Parameters

Table 3: Radius Global Parameters

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config radius auth <i>call-station-type ap-name-ssid</i> config radius acct mac-delimiter <i>delimiter</i></pre>	<pre>aaa new-model radius-server attribute wireless authentication <i>call-station-id ap-name-ssid</i> <i>delimiter</i> radius-server attribute wireless accounting mac-delimiter</pre>
<pre>config radius auth callstationidtype ap-name-ssid config radius acct mac-delimiter colon</pre>	<pre>aaa new-model radius-server attribute wireless authentication call-station-id ap-name-ssid radius-server attribute wireless accounting mac-delimiter colon</pre>

Authentication TACACS Server**Table 4: Authentication TACACS Server**

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
config tacacs auth add encrypt 1 <i>ip-address</i> password 1 <i>password</i> config tacacs auth server-timeout 1 <i>timeout-value</i>	tacacs server <i>authentication-sever</i> address ipv4 <i>ip-address</i> port <i>port-number</i> timeout <i>timeout-value</i>
<pre>config tacacs auth add encrypt 1 192.16.176.96 49 password 1 *** ** 16 *** config tacacs auth server-timeout 1 5</pre>	<pre>tacacs server TACACS_SERVER_AUTH_1 address ipv4 192.16.176.96 port 49 timeout 5</pre>

Accounting TACACS Server**Table 5: Accounting TACACS Server**

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
config tacacs acct add encrypt 1 <i>ip-address</i> 49 password <i>password</i> config tacacs acct server-timeout 1 <i>timeout-value</i>	tacacs server <i>accounting-server</i> address ipv4 <i>ip-address</i> port <i>port-number</i> timeout <i>timeout-value</i>
<pre>config tacacs acct add encrypt 1 192.16.176.96 49 password 1 *** ** 16 *** config tacacs acct server-timeout 1 5</pre>	<pre>tacacs server TACACS_SERVER_ACCT_1 address ipv4 192.16.176.96 port 49 timeout 5</pre>

Authorization TACACS Server**Table 6: Authorization TACACS Server**

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
config tacacs athr add encrypt 1 <i>ip-address</i>49 password 1 <i>password</i> config tacacs athr server-timeout 1 <i>ip-address</i>	tacacs server <i>authorization-server</i> address ipv4 <i>ip-address</i> <i>port-number</i> port timeout <i>timeout-value</i>
<pre>config tacacs athr add encrypt 1 192.16.176.96 49 password 1 *** ** 16 *** config tacacs athr server-timeout 1 5</pre>	<pre>tacacs server TACACS_SERVER_ATHR_1 address ipv4 192.16.176.96 port 49 timeout 5</pre>

Authentication Radius Server

Table 7: Authentication Radius Server

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
config radius auth add encrypt 4 ip-address 1812 password 1 password config radius auth retransmit-timeout 4 timeout-value	aaa new-model radius server radius-authentication-server address ipv4 ip-address auth-port authentication-port acct-port accounting-port
<pre>config radius auth add encrypt 4 10.240.222.72 1812 password 1 *** *** 16 *** config radius auth retransmit-timeout 4 5</pre>	<pre>aaa new-model radius server RADIUS_SERVER_AUTH_4 address ipv4 10.240.222.72 auth-port 1812 acct-port 1813</pre>

Accounting Radius Server

Table 8: Accounting Radius Server

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
config radius acct add encrypt 1 ip-address 1813 password 1 password config radius acct retransmit-timeout 1 timeout-value	aaa new-model radius server radius-accounting-server address ipv4 ip-address auth-port authentication-port acct-port accounting-port
<pre>config radius acct add encrypt 1 10.240.222.15 1813 password 1 *** *** 16 *** config radius acct retransmit-timeout 1 2</pre>	<pre>aaa new-model radius server RADIUS_SERVER_ACCT_1 address ipv4 10.240.222.15 auth-port 1812 acct-port 1813</pre>

FlexConnect ACL

Table 9: FlexConnect ACL

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
config flexconnect acl apply Secured-Wireless-Networks config flexconnect acl create Secured-Wireless-Networks config flexconnect acl rule add Secured-Wireless-Networks 1 config flexconnect acl rule action Secured-Wireless-Networks 1 permit config flexconnect acl rule protocol Secured-Wireless-Networks 1 17 config flexconnect acl rule destination port range Secured-Wireless-Networks 1 1812 1813	ip access-list extended Secured-Wireless-Networks 1 permit 17 any any range 1812 1813 2 permit 17 any range 67 68 3 permit ip any ip-address 0.0.0.0 4 permit ip ip-address 0.0.0.0 any

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config flexconnect acl apply Secured-Wireless-Networks config flexconnect acl create Secured-Wireless-Networks config flexconnect acl rule add Secured-Wireless-Networks 1 config flexconnect acl rule action Secured-Wireless-Networks 1 permit config flexconnect acl rule protocol Secured-Wireless-Networks 1 17 config flexconnect acl rule destination port range Secured-Wireless-Networks 1 1812 1813</pre>	<pre>ip access-list extended Secured-Wireless-Networks 1 permit 17 any any range 1812 1813 2 permit 17 any range 67 68 any range 67 68 3 permit ip any 168.213.64.215 0.0.0.0 4 permit ip 168.213.64.215 0.0.0.0 any</pre>

ACL

Table 10: ACL

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config acl apply <i>Apply_All</i> config acl create <i>Allow_All</i> config acl rule add <i>Allow_All 1</i> config acl rule action <i>Allow_all 1 permit</i> config acl rule source port range <i>Allow_All 1 permit Allow_All 1 0 65535</i> config acl rule destination port range <i>Allow_All 1 0 65535</i></pre>	<pre>ip access-list extended <i>Allow_All</i> 1 permit ip any any</pre>
<pre>config acl apply Allow_All config acl create Allow_All config acl rule add Allow_All 1 config acl rule action Allow_All 1 permit config acl rule source port range Allow_All 1 0 65535 config acl rule destination port range Allow_All 1 0 65535</pre>	<pre>ip access-list extended Allow_All 1 permit ip any any</pre>

Multicast Parameters

Table 11: Multicast Parameters

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config network multicast global <i>enable/disable</i> config network multicast igmp snooping <i>enable/disable</i> config network multicast mode multicast <i>ip-address</i></pre>	<pre>wireless multicast ip igmp snooping querier wireless multicast <i>ip-address</i></pre>

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config network multicast global enable config network multicast igmp snooping enable config network multicast mode multicast 239.240.222.41</pre>	<pre>wireless multicast ip igmp snooping ip igmp snooping querier wireless multicast 239.240.222.41</pre>

Mobility Configuration

Table 12: Mobility Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config mobility group domain B1SD config mobility group member add mac-address ip-address B1SD</pre>	<pre>wireless mobility group name B1SD wireless mobility group member ip ip-address public-ip ip-address group B1SD</pre>
<pre>config mobility group domain B1SD config mobility group member add 54:4a:00:32:b7:80 10.240.222.45 B1SD</pre>	<pre>wireless mobility group name B1SD wireless mobility group member ip 10.240.222.45 public-ip 10.240.222.45 group B1SD</pre>

Rogue Global Configuration

Table 13: Rogue Global Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config rogue ap rldp enable alarm-only monitor-ap-only config rogue detection report-interval time config rogue detection monitor-ap report-interval time config rogue detection min-rssi time config rogue ap classify friendly state internal mac-address config rogue ap friendly add mac-address config rogue client mse enable</pre>	<pre>wireless wps rogue ap rldp alarm-only monitor-ap-only wireless wps rogue detection report-interval time wireless wps rogue detection monitor-ap report-interval time wireless wps rogue detection min-rssi -time wireless wps rogue ap friendly mac-address state internal wireless wps rogue client mse</pre>
<pre>config rogue ap rldp enable alarm-only monitor-ap-only config rogue detection report-interval 30 config rogue detection monitor-ap report-interval 30 config rogue detection min-rssi -70 config rogue ap classify friendly state internal 68:72:51:2c:b5:85 config rogue ap friendly add 2c:3e:cf:3c:a5:a0 config rogue client mse enable</pre>	<pre>wireless wps rogue ap rldp alarm-only monitor-ap-only wireless wps rogue detection report-interval 30 wireless wps rogue detection monitor-ap report-interval 30 wireless wps rogue detection min-rssi -70 wireless wps rogue ap friendly 6872.512c.b585 state internal wireless wps rogue client mse</pre>

Rogue Rules Configuration

Table 14: Rogue Rules Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config rogue rule add ap priority <i>priority</i> classify friendly notify none state external <i>128_Ignore</i> config rogue rule condition ap set rssi -128 128_Ignore config rogue rule enable 128_Ignore config rogue rule match any 128_Ignore</pre>	<pre>wireless wps rogue rule <i>128_Ignore</i> priority <i>priority</i> shutdown classify friendly state <i>external</i> condition rssi -128 match any no shutdown</pre>
<pre>config rogue rule add ap priority 3 classify friendly notify none state external 128_Ignore config rogue rule condition ap set rssi -128 128_Ignore config rogue rule enable 128_Ignore config rogue rule match any 128_Ignore</pre>	<pre>wireless wps rogue rule 128_Ignore priority 3 shutdown classify friendly state external condition rssi -128 match any no shutdown</pre>

SNMP Trap Receiver Global Configuration

Table 15: SNMP Trap Receiver Global Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config snmp trapreceiver create <i>ip-address</i> <i>ip-address</i></pre>	<pre>snmp-server host <i>ip-address</i> version 2c <i>ip-address</i></pre>
<pre>config snmp trapreceiver create 10.240.222.40 10.240.222.40</pre>	<pre>snmp-server host 10.240.222.40 version 2c 10.240.222.40</pre>

SNMP Community Global Configuration

Table 16: SNMP Community Global Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config snmp community ipaddr <i>ip-address</i> <i>ip-address</i> read2008bisd config snmp community create read2008bisd config snmp community mode enable read2008bisd rw read2008bisd config snmp community accessmode</pre>	<pre>ip access-list extended read2008bisd_ACL permit udp any host <i>ip-address</i> eq snmp snmp-server community read2008bisd rw read2008bisd_ACL</pre>

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config snmp community ipaddr 10.240.222.0 255.255.255.0 read2008bisd config snmp community create read2008bisd config snmp community mode enable read2008bisd config snmp community accessmode rw read2008bisd</pre>	<pre>ip access-list extended read2008bisd_ACL permit udp any host 10.240.222.0 eq snmp snmp-server community read2008bisd rw read2008bisd_ACL</pre>

SNMP Syscontact and Syslocation Global Configuration

Table 17: SNMP Syscontact and Syslocation Global Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
config snmp syslocation NOC	snmp-server contact NOC
<pre>config snmp syslocation NOC</pre>	<pre>snmp-server contact NOC</pre>

Location Global Configuration - Trapflags

Table 18: Location Global Configuration - Trapflags

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
config trapflags 802.11-security ids-sig-attack disable	no trapflags client dot11 ids-sig-attack
<pre>config trapflags 802.11-security ids-sig-attack disable</pre>	<pre>no trapflags client dot11 ids-sig-attack</pre>

Wireless Global Parameters

Table 19: Wireless Global Parameters

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre> config exclusionlist add 58:3f:54:c8:04:8f "IDS EAPOL Flood Attack " config exclusionlist add 2c:8a:72:b6:da:4b MDNSInterfere config exclusionlist add f0:f7:55:75:f0:f0 OE-AP config advanced fra enable config wps client-exclusion 802.11-assoc disable config wps client-exclusion ip-theft disable config wps client-exclusion 802.11-auth disable config wps client-exclusion 802.1x-auth disable config network mgmt-via-wireless enable config rfid status enable config rfid timeout 1200 config advanced probe limit 2 500 config network rf-network-name RF1 config country US load-balancing window 20 config load-balancing window 20 </pre>	<pre> wireless exclusionlist 583f.54c8.048f description "IDS EAPOL Flood Attack " wireless exclusionlist 2c8a.72b6.da4b description MDNSInterfere wireless exclusionlist f0f7.5575.f0f0 description OE-AP ap fra no wireless wps client-exclusion ip-theft no wireless wps client-exclusion dot11-assoc no wireless wps client-exclusion dot11-auth no wireless wps client-exclusion dot1x-auth wireless mgmt-via-wireless wireless rfid wireless rfid timeout 1200 wireless probe limit 2 500 wireless rf-network RF1 ap country US wireless load-balancing window 20 </pre>
<pre> config exclusionlist add 58:3f:54:c8:04:8f "IDS EAPOL Flood Attack " config exclusionlist add 2c:8a:72:b6:da:4b MDNSInterfere config exclusionlist add f0:f7:55:75:f0:f0 OE-AP config advanced fra enable config wps client-exclusion 802.11-assoc disable config wps client-exclusion ip-theft disable config wps client-exclusion 802.11-auth disable config wps client-exclusion 802.1x-auth disable config network mgmt-via-wireless enable config rfid status enable config rfid timeout 1200 config advanced probe limit 2 500 config network rf-network-name RF1 config country US load-balancing window 20 config load-balancing window 20 </pre>	<pre> wireless exclusionlist 583f.54c8.048f description "IDS EAPOL Flood Attack " wireless exclusionlist 2c8a.72b6.da4b description MDNSInterfere wireless exclusionlist f0f7.5575.f0f0 description OE-AP ap fra no wireless wps client-exclusion ip-theft no wireless wps client-exclusion dot11-assoc no wireless wps client-exclusion dot11-auth no wireless wps client-exclusion dot1x-auth wireless mgmt-via-wireless wireless rfid wireless rfid timeout 1200 wireless probe limit 2 500 wireless rf-network RF1 ap country US wireless load-balancing window 20 </pre>

Media-stream Configuration**Table 20: Media-stream Configuration**

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
media-stream multicast-direct <i>disable</i> media-stream multicast-direct <i>enable</i>	wireless media-stream multicast-direct
media-stream multicast-direct disable media-stream multicast-direct enable	wireless media-stream multicast-direct

Mac-Filtering at WLAN level**Table 21: Mac-Filtering at WLAN level**

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
config macfilter add <i>mac-address 4 240-sysops Roku</i> config wlan radius_server auth add <i>4 5</i> config wlan create <i>4 SYSOPS SYSOPS</i> config wlan enable <i>4</i> config wlan broadcast-ssid enable <i>4</i> config wlan security wpa disable <i>4</i> <i>wpa2 disable 4 config wlan security wpa</i> config wlan security wpa <i>wpa2 ciphers aes disable 4</i> config wlan security wpa <i>akm 802.1x disable 4</i> config wlan wmm allow <i>4</i> config wlan mac-filtering enable <i>4</i>	aaa new-model aaa attribute list ATTR_LIST_SYSOPS attribute type ssid SYSOPS username b0ee7b3ff473 mac aaa attribute list ATTR_LIST_SYSOPS
config macfilter add b0:ee:7b:3f:f4:73 4 240-sysops Roku config wlan radius_server auth add 4 5 config wlan create 4 SYSOPS SYSOPS config wlan enable 4 config wlan broadcast-ssid enable 4 config wlan security wpa disable 4 config wlan security wpa wpa2 disable 4 config wlan security wpa wpa2 ciphers aes disable 4 config wlan security wpa akm 802.1x disable 4 config wlan wmm allow 4 config wlan mac-filtering enable 4	aaa new-model aaa attribute list ATTR_LIST_SYSOPS attribute type ssid SYSOPS username b0ee7b3ff473 mac aaa attribute list ATTR_LIST_SYSOPS

WLAN Profile Configuration*Table 22: WLAN Profile Configuration*

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<code>config wlan radius_server auth add 1 4</code>	<code>aaa new-model</code>
<code>config wlan radius_server acct add 1 1</code>	<code>aaa group server radius</code>
<code>config wlan create 1 BISSD-5G BISSD-5G</code>	<code>RADIUS_SERVER_GROUP_AUTH_BISSD-5G</code>
<code>config wlan security wpa akm 802.1x enable 1</code>	<code>server name RADIUS_SERVER_AUTH_4</code>
<code>config wlan security wpa akm 802.1x enable 1</code>	<code>server name RADIUS_SERVER_AUTH_5</code>
<code>config wlan security wpa enable 1</code>	<code>aaa authentication dot1x</code>
<code>config wlan security wpa akm ft 802.1x enable 1</code>	<code>DOT1X_RADIUS_AUTH_LIST_BISSD-5G group</code>
<code>config wlan enable 1</code>	<code>RADIUS_SERVER_GROUP_AUTH_BISSD-5G</code>
<code>config wlan broadcast-ssid enable 1</code>	<code>aaa group server radius</code>
<code>config wlan band-select allow enable 1</code>	<code>RADIUS_SERVER_GROUP_ACCT_BISSD-5G</code>
<code>config wlan security wpa wpa1 enable 1</code>	<code>server name RADIUS_SERVER_ACCT_1</code>
<code>config wlan security wpa wpa1 ciphers aes enable 1</code>	<code>aaa accounting identity</code>
<code>config wlan wmm allow 1</code>	<code>RADIUS_ACCT_LIST_BISSD-5G start-stop group</code>
<code>config wlan ccx aironet-iesupport disable 1</code>	<code>RADIUS_SERVER_GROUP_ACCT_BISSD-5G</code>
<code>config wlan radio 1 802.11a-only</code>	<code>wlan BISSD-5G 1 BISSD-5G</code>
	<code>security wpa</code>
	<code>security wpa wpa1</code>
	<code>security wpa wpa1 ciphers aes</code>
	<code>security wpa akm dot1x</code>
	<code>security wpa akm ft dot1x</code>
	<code>security dot1x authentication-list</code>
	<code>DOT1X_RADIUS_AUTH_LIST_BISSD-5G</code>
	<code>broadcast-ssid</code>
	<code>band-select</code>
	<code>wmm allowed</code>
	<code>no ccx aironet-iesupport</code>
	<code>radio dot11a</code>
	<code>no shutdown</code>

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre> config wlan radius_server auth add 1 4 config wlan radius_server auth add 1 5 config wlan radius_server acct add 1 1 config wlan create 1 BISS-5G BISS-5G config wlan security wpa akm 802.1x enable 1 config wlan security wpa enable 1 config wlan security wpa akm ft 802.1x enable 1 config wlan enable 1 config wlan broadcast-ssid enable 1 config wlan band-select allow enable 1 config wlan security wpa wpa1 enable 1 config wlan security wpa wpa1 ciphers aes enable 1 config wlan wmm allow 1 config wlan ccx aironet-iesupport disable 1 config wlan radio 1 802.11a-only </pre>	<pre> aaa new-model aaa group server radius RADIUS_SERVER_GROUP_AUTH_BISS-5G server name RADIUS_SERVER_AUTH_4 server name RADIUS_SERVER_AUTH_5 aaa authentication dot1x DOT1X_RADIUS_AUTH_LIST_BISS-5G group RADIUS_SERVER_GROUP_AUTH_RADIUS_SERVER_GROUP_AUTH_BISS-5G aaa group server radius RADIUS_SERVER_GROUP_ACCT_BISS-5G server name RADIUS_SERVER_ACCT_1 aaa accounting identity RADIUS_ACCT_LIST_BISS-5G start-stop group RADIUS_SERVER_GROUP_ACCT_BISS-5G wlan BISS-5G 1 BISS-5G security wpa security wpa wpa1 security wpa wpa1 ciphers aes security wpa akm dot1x security wpa akm ft dot1x security dot1x authentication-list DOT1X_RADIUS_AUTH_LIST_BISS-5G broadcast-ssid band-select wmm allowed no ccx aironet-iesupport radio dot11a no shutdown </pre>

Flow Exporter Configuration

Table 23: Flow Exporter Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre> config flow create exporter "Cisco Prime" mac-address port port-number </pre>	<pre> flow exporter "Cisco Prime" destination mac-address transport udp port-number </pre>
<pre> config flow create exporter "Cisco Prime" 10.240.222.40 port 9991 </pre>	<pre> flow exporter "Cisco Prime" destination 10.240.222.40 transport udp 9991 </pre>

Flow Monitor Configuration

Table 24: Flow Monitor Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre> config flow create monitor "Cisco Prime" config flow add monitor "Cisco Prime" exporter "Cisco Prime" </pre>	<pre> flow monitor "Cisco Prime" flow exporter "Cisco Prime" flow monitor "Cisco Prime" exporter "Cisco Prime" </pre>

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config flow create monitor "Cisco Prime" config flow add monitor "Cisco Prime" exporter "Cisco Prime"</pre>	<pre>flow monitor "Cisco Prime" flow exporter "Cisco Prime" flow monitor "Cisco Prime" exporter "Cisco Prime"</pre>

Class Map Configuration for AVC Profile

Table 25: Class Map Configuration for AVC Profile

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config avc profile Sample rule add application application-name drop</pre>	<pre>class-map match-any CM_AVC_1_1 description Class-map for AVC-Profile - Sample, Action - police cir 8000 conform-action drop exceed-action drop match protocol application-name</pre>
<pre>config avc profile Sample rule add application facebook drop</pre>	<pre>class-map match-any CM_AVC_1_1 description Class-map for AVC-Profile - Sample, Action - police cir 8000 conform-action drop exceed-action drop match protocol facebook</pre>

Policy Map Configuration for AVC Profile

Table 26: Policy Map Configuration for AVC Profile

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config avc profile sample-create config avc profile Sample rule add application application-name drop</pre>	<pre>policy-map sample description Policy-map for AVC-Profile - sample class CM_AVC_1_1 police cir 8000 conform-action drop exceed-action drop</pre>
<pre>config avc profile Sample create config avc profile Sample rule add application facebook drop</pre>	<pre>policy-map Sample description Policy-map for AVC-Profile - Sample class CM_AVC_1_1 police cir 8000 conform-action drop exceed-action drop</pre>

Policy Profile Configuration

Table 27: Policy Profile Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre> config wlan aaa-override enable/disable 1 config wlan apgroup interface-mapping add vlan-number vlan-id vlan-name config interface vlan vlan-name vlan-number config wlan interface vlan-id vlan-interface config wlan session-timeout 1 timeout-value config wlan user-idle-threshold threshold-value 1 config wlan qos 1 qos-profile config wlan avc 1 visibility enable config wlan exclusionlist 1 60 config wlan profiling local dhcp enable 1 config wlan profiling local http enable 1 config wlan nac radius enable 1 </pre>	<pre> wireless profile policy POLICY_PROFILE_1 description "Policy profile for wlan-ids=['vlan-id']" shutdown aaa-override wlan vlan-number session-timeout timeout-value idle-threshold threshold-value service-policy output qos-profile ipv4 flow monitor wireless-avc-basic input ipv4 flow monitor wireless-avc-basic output exclusionlist timeout timeout-value local-dhcp-profiling local-http-profiling nac </pre>
<pre> config wlan aaa-override enable 1 config wlan apgroup interface-mapping add 119 1 119-wifi config interface create 119-wifi 3119 config interface vlan 119-wifi 3119 config wlan interface 1 012-wifi config wlan session-timeout 1 28800 config wlan user-idle-threshold 70 1 config wlan qos 1 platinum config wlan avc 1 visibility enable config wlan exclusionlist 1 60 config wlan profiling local dhcp enable 1 config wlan profiling local http enable 1 config wlan nac radius enable 1 </pre>	<pre> wireless profile policy POLICY_PROFILE_1 description "Policy profile for wlan-ids=['1']" shutdown aaa-override vlan 3119 session-timeout 28800 idle-threshold 70 service-policy input platinum-up service-policy output platinum ipv4 flow monitor wireless-avc-basic input ipv4 flow monitor wireless-avc-basic output exclusionlist timeout 60 local-dhcp-profiling local-http-profiling nac </pre>

Policy Tag Configuration

Table 28: Policy Tag Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config wlan apgroup add 001 "group-name" config wlan apgroup description 001 "group-name" config wlan apgroup interface-mapping add 001 2 guest-wifi config wlan apgroup interface-mapping add 001 3 001-wifi config wlan apgroup interface-mapping add 001 1 001-wifi</pre>	<pre>wireless tag policy APG_001 description "Policy tag for wlan-ids=set(['1', '3', '2'])" wlan BISSD-5G policy POLICY_PROFILE_34 wlan BISSD-Guest policy POLICY_PROFILE_38 wlan BISSD policy POLICY_PROFILE_62</pre>
<pre>config wlan apgroup add 001 "Haltom HS" config wlan apgroup description 001 "Haltom HS" config wlan apgroup interface-mapping add 001 2 guest-wifi config wlan apgroup interface-mapping add 001 3 001-wifi config wlan apgroup interface-mapping add 001 1 001-wifi</pre>	<pre>wireless tag policy APG_001 description "Policy tag for wlan-ids=set(['1', '3', '2'])" wlan BISSD-5G policy POLICY_PROFILE_34 wlan BISSD-Guest policy POLICY_PROFILE_38 wlan BISSD policy POLICY_PROFILE_62</pre>

Global Radio Parameters

Table 29: Global Radio Parameters

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config 802.11a cac voice sip bandwidth 64 sample-interval interval</pre>	<pre>ap dot11 5ghz cac voice sip bandwidth 64 sample-interval interval</pre>
<pre>config advanced 802.11a channel add channel-id</pre>	<pre>ap dot11 5ghz rrm channel dca add channel-id</pre>
<pre>config advanced 802.11a channel dca chan-width channel-width</pre>	<pre>ap dot11 5ghz rrm channel dca chan-width channel-width</pre>
<pre>config 802.11a cleanair enable</pre>	<pre>ap dot11 5ghz cleanair</pre>
<pre>config advanced 802.11a channel cleanair-event enable</pre>	<pre>ap dot11 5ghz cleanair</pre>
<pre>config advanced 802.11a profile foreign global 60</pre>	<pre>no ap dot11 5ghz rrm channel cleanair-event</pre>
<pre>config advanced 802.11a profile clients global 30</pre>	<pre>ap dot11 5ghz rrm channel cleanair-event</pre>

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre> config 802.11a cac voice sip bandwidth 64 sample-interval 20 config advanced 802.11a channel add 140 config advanced 802.11a channel dca chan-width 40 config 802.11a cleanair enable config advanced 802.11a channel cleanair-event enable config advanced 802.11a profile foreign global 60 config advanced 802.11a profile clients global 30 </pre>	<pre> ap dot11 5ghz cac voice sip bandwidth 64 sample-interval 20 ap dot11 5ghz rrm channel dca add 140 ap dot11 5ghz rrm channel dca chan-width 40 ap dot11 5ghz cleanair ap dot11 5ghz cleanair no ap dot11 5ghz rrm channel cleanair-event ap dot11 5ghz rrm channel cleanair-event </pre>

RF Profile Configuration

Table 30: RF Profile Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre> config rf-profile create <i>802.11a rf-profile-name</i> config rf-profile data-rates 802.11a mandatory 1 <i>2 rf-profile-name</i> config rf-profile trap-threshold clients <i>threshold-value rf-profile-name</i> config rf-profile trap-threshold interference <i>60</i> <i>rf-profile-name</i> config rf-profile load-balancing window <i>20</i> <i>rf-profile-name</i> config rf-profile channel add <i>channel-width</i> <i>rf-profile-name</i> config rf-profile channel chan-width <i>channel-width</i> <i>rf-profile-name</i> </pre>	<pre> ap dot11 5ghz rf-profile <i>rf-profile-name</i> shutdown rate RATE_12M mandatory rate RATE_6M mandatory rate RATE_24M mandatory rate RATE_48M supported rate RATE_36M supported rate RATE_9M supported rate RATE_18M supported rate RATE_54M supported trap threshold clients <i>threshold-value</i> trap threshold interference <i>60</i> load-balancing window <i>20</i> channel add <i>channel-number</i> channel chan-width <i>channel-width</i> no shutdown </pre>

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config rf-profile create 802.11a A_Profile config rf-profile data-rates 802.11a mandatory 12 A_Profile config rf-profile trap-threshold clients 30 A_Profile config rf-profile trap-threshold interference 60 A_Profile config rf-profile load-balancing window 20 A_Profile config rf-profile channel add 112 A_Profile config rf-profile channel chan-width 80 A_Profile</pre>	<pre>ap dot11 5ghz rf-profile A_Profile shutdown rate RATE_12M mandatory rate RATE_6M mandatory rate RATE_24M mandatory rate RATE_48M supported rate RATE_36M supported rate RATE_9M supported rate RATE_18M supported rate RATE_54M supported trap threshold clients 30 trap threshold interference 60 load-balancing window 20 channel add 112 channel chan-width 80 no shutdown</pre>

RF Tag Configuration

Table 31: RF Tag Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config wlan apgroup profile-mapping add ap-group-profile</pre>	<pre>wireless tag rf ap-group-profile description "RF-Tag for AP-Group - BISDOEAP" 5ghz-rf-policy A_Profile</pre>
<pre>config wlan apgroup profile-mapping add BISDOEAP A_Profile</pre>	<pre>wireless tag rf BISDOEAP description "RF-Tag for AP-Group - BISDOEAP" 5ghz-rf-policy A_Profile</pre>

Flex Profile Configuration

Table 32: Flex Profile Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config flexconnect group flex-group-name add config flexconnect group default-flex-group radius ap authority id group-id config flexconnect group default-flex-group radius ap authority info "group-info" config flexconnect group default-flex-group radius ap server-key encrypt 1 *** ** *</pre>	<pre>eap method fast profile EF_default-flex-group description "Eap-Fast profile: fc-grp=default-flex-group" authority-id identity id authority-id information "info" pac-password unencrypted/hidden server-key wireless profile flex flex-profile-name description flex-group-name no local-auth ap eap-fast EF_default-flex-group</pre>

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre> config flexconnect group default-flex-group add config flexconnect group default-flex-group radius ap authority id 436973636f0000000000000000000000 config flexconnect group default-flex-group radius ap authority info "Cisco A_ID" config flexconnect group default-flex-group radius ap server-key encrypt 1 *** *** *** </pre>	<pre> eap method fast profile EF_default-flex-group description "Eap-Fast profile: fc-grp=default-flex-group" authority-id identity 436973636f0000000000000000000000 authority-id information "Cisco A_ID" pac-password <UNENCRYPTED/HIDDEN> <SERVER_KEY> wireless profile flex default-flex-group description default-flex-group no local-auth ap eap-fast EF_default-flex-group </pre>

AP Profile Configuration

Table 33: AP Profile Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre> config advanced backup-controller primary <i>WISM-Central4 mac-address</i> config ap packet-dump ftp serverip <i>mac-address</i> <i>path / username username password password</i> config ap packet-dumpbuffer-size <i>buffer-size</i> config ap packet-dump capture-time <i>duration</i> config ap packet-dump truncate <i>0</i> config ap packet-dump classifier control <i>enable</i> config ap packet-dump classifier management <i>enable</i> config ap packet-dump classifier ip <i>enable</i> config ap packet-dump classifier data <i>enable</i> config ap packet-dump classifier udp <i>enable</i> config ap ssh <i>enable all</i> </pre>	<pre> wireless profile ap packet-capture <i>pc_default-ap-profile</i> ftp serverip <i>mac-address</i> ftp username <i>username</i> ftp password 0 <i>password</i> ftp path / buffer-size <i>buffer-size</i> duration <i>duration</i> classifier control classifier management classifier data classifier udp ap profile default-ap-profile packet-capture <i>pc_default-ap-profile</i> capwap backup primary <i>WISM-Central4</i> <i>mac-address</i> ssh </pre>

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config advanced backup-controller primary WISM-Central4 10.240.222.44 config ap packet-dump ftp serverip 10.240.222.27 path / username ncsadmin password @dmin2015 config ap packet-dump buffer-size 3000 config ap packet-dump capture-time 10 config ap packet-dump truncate 0 config ap packet-dump classifier control enable config ap packet-dump classifier management enable config ap packet-dump classifier ip enable config ap packet-dump classifier data enable config ap packet-dump classifier udp enable config ap ssh enable all</pre>	<pre>wireless profile ap packet-capture pc_default-ap-profile ftp serverip 10.240.222.27 ftp username ncsadmin ftp password 0 @dmin2015 ftp path / buffer-size 3000 duration 10 classifier control classifier management classifier ip classifier data classifier udp ap profile default-ap-profile packet-capture pc_default-ap-profile capwap backup primary WISM-Central4 10.240.222.44 ssh</pre>

Site Tag Configuration

Table 34: Site Tag Configuration

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>flexconnect group NACHA ap add mac-address</pre>	<pre>wireless tag site NACHA flex-profile NACHA</pre>
<pre>flexconnect group NACHA ap add 6c:41:6a:29:5b:cf</pre>	<pre>wireless tag site NACHA flex-profile NACHA</pre>

Attaching tags to AP

Table 35: Attaching tags to AP

AireOS CLIs	Cisco Catalyst 9800 Series Wireless Controller CLIs
<pre>config flexconnect group SIN-SingaporeChangi ap add mac-address</pre>	<pre>ap mac-address policy-tag FCG_SIN-SingaporeChangi site-tag SIN-SingaporeChangi</pre>
<pre>config flexconnect group SIN-SingaporeChangi ap add 00:06:f6:16:c2:5b</pre>	<pre>ap 0006.f616.c25b policy-tag FCG_SIN-SingaporeChangi site-tag SIN-SingaporeChangi</pre>