

# Aruba 6.

7210 WNAM 1.3

1 :

aruba

NETWORKS

MOBILITY CONTROLLER | 7210

Dashboard

Monitoring

Configuration

Diagnostics

Maintenance

Save Configuration

WIZARDS

AP

Controller

Campus WLAN

Remote AP

AirWave

NETWORK

Controller

VLANs

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Cellular Profile

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Access Control

WIRELESS

> AP Configuration

AP Installation 1.

MANAGEMENT

General

Configuration > AP Group

AP Group

AP Specific

Delete

Delete

Delete

Delete

Delete

Delete

Delete

New

2.

2 :

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> AP Configuration

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Configuration > AP Group

AP GroupAP Specific

Delete

Delete

Delete

Delete

Delete

Delete

Delete

wnam\_auth

1.

Add

Cancel

2.

3 :

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Security > Authentication > Servers

ServersAAA ProfilesL2 AuthenticationL3 AuthenticationUser RulesAdvanced

Server Group

+

 RADIUS Server

+

 LDAP Server

+

 Internal DB

+

 Tacacs Accounting Server

+

 TACACS Server

+

 XML API Server

+

 RFC 3576 Server

+

 Windows Server

Server Group

Instance

wnam\_au

Add

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RADIUS Server

LDAP Server

Internal DB

Tacacs Accounting Server

TACACS Server

XML API Server

RFC 3576 Server

Windows Server

RADIUS Server

Instance

wnam\_srvAdd

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LDAP Server

Internal DB

Tacacs Accounting Server

TACACS Server

XML API Server

RFC 3576 Server

wnam controller x.x.x.x

Windows Server

RFC 3576 Server > wnam controller x.x.x.x

Save

Key

\*\*\*\*\*

Retype:

\*\*\*\*\*

Radsec

CommandsApplyView Commands

8 rfc :

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TACACS Server

XML API Server

RFC 3576 Server

Windows Server

RFC 3576 Server

Insta

WNAM controller x.x.x.x

Add

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AAA

AAA Profiles Summary

| Name             | Role | MAC Auth. | 802.1x Auth. | RADIUS Acct. | XML-API Auth. |
|------------------|------|-----------|--------------|--------------|---------------|
| Add              |      |           |              |              |               |
| 1.               |      |           |              |              |               |
| wnam_aaa_profile |      |           |              |              |               |
| 2.               |      |           |              |              |               |
| 3.               |      |           |              |              |               |

AddCancel

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Log out admin

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Security > Authentication > Profiles

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AAA

AAA Profile > wnam\_aaa\_profile

Show ReferenceSave AsReset

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Initial role                       | WNAM_role                                  |
| MAC Authentication Default Role    | guest                                      |
| 802.1X Authentication Default Role | guest                                      |
| Download Role from CPM             |                                            |
| L2 Authentication Fail Through     |                                            |
| Multiple Server Accounting         |                                            |
| User idle timeout                  | <input type="checkbox"/> Enable<br>seconds |
| Max IPv4 for wireless user         | 2                                          |
| RADIUS Interim Accounting          | <input checked="" type="checkbox"/>        |
| User derivation rules              | --NONE--                                   |
| Wired to Wireless Roaming          | <input checked="" type="checkbox"/>        |
| SIP authentication role            | --NONE--                                   |
| Device Type Classification         | <input checked="" type="checkbox"/>        |
| Enforce DHCP                       | <input type="checkbox"/>                   |
| PAN Firewall Integration           | <input type="checkbox"/>                   |
| Open SSID radius accounting        | <input type="checkbox"/>                   |

ApplyView Commands

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ADVANCED SERVICES

- Redundancy
- AirGroup
- IP Mobility
- Stateful Firewall

**Security > Authentication > Profiles**

Servers AAA Profiles L2 Authentication L3 Authentication User Rules Advanced

AAA

- 21vvc
- ARUBA-DEMO-aaa\_prof
- aug4
- corpnet
- default
- default-dot1x
- default-dot1x-psk
- default-mac-auth
- default-open
- default-xml-api
- guestnet
- guestneton
- MirVodnyhIgrushek
- NoAuthAAAProfile
- photonet
- whirl
- whirlcp
- wnam\_aaa\_profile
  - MAC Authentication
  - MAC Authentication Server Group** default
  - 802.1X Authentication
  - 802.1X Authentication Server Group

MAC Authentication Server Group > default

Fail Through

Load Balance

Servers

- wnam\_au
- NEW--

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**Security > Authentication > Profiles**

Servers AAA Profiles L2 Authentication L3 Authentication User Rules Advanced

AAA

- aug4
- corpnet
- default
- default-dot1x
- default-dot1x-psk
- default-mac-auth
- default-open
- default-xml-api
- guestnet
- guestneton
- MirVodnyhIgrushek
- NoAuthAAAProfile
- photonet
- whirl
- whirlcp
- wnam\_aaa\_profile
  - MAC Authentication
  - MAC Authentication Server Group wnam\_au
  - 802.1X Authentication
  - 802.1X Authentication Server Group
  - RADIUS Accounting Server Group** default
  - XML API server
  - RFC 3576 server

RADIUS Accounting Server Group > default

Fail Through

Load Balance

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- wnam\_au
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13 aaa, RFC 3576 IP WNAM :

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default

default-dot1x

default-dot1x-psk

default-mac-auth

default-open

default-smi-api

guestnet

guestnetnet

MirVodnyhtgrushek

NoAuthAAAProfile

photonet

whirl

whirlcp

wnam\_aaa\_profile

MAC Authentication

MAC Authentication Server Group

802.1X Authentication

802.1X Authentication Server Group

RADIUS Accounting Server Group

XML API server

RFC 3576 server

RFC 3576 servers

Name

Add a profile

Add

1.

RFC 3576 server > X.X.X.X wnam ip

Key

Retype:

Radsec

2.

14 IP wnam :

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Stateful Firewall

External Services

VPN Services

Advanced Services > Stateful Firewall > Destinations

Global SettingACL White ListWhite List BW ContractsNetwork ServicesDestination

Name

Add

1.

Add Rule

Rule Type

host

IP Address

wnam ip x.x.x.x

Add

Cancel

2.

15 L3 captive portal:

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**Security > Authentication > L3 Authentication**

Servers AAA Profiles L2 Authentication **L3 Authentication** User Rules Advanced

☐ Captive Portal Authentication

☐ WISPr Authentication

☐ VPN Authentication

☐ Stateful NTLM Authentication

☐ Stateful Kerberos Authentication

**Captive Portal Authentication Profile**

**Instance**

wnam\_captive\_portal Add

16 L3 captive portal:

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**Security > Authentication > L3 Authentication**

Servers AAA Profiles L2 Authentication **L3 Authentication** User Rules Advanced

☐ Captive Portal Authentication

☐ wnam\_captive\_portal  
 Server Group wnam\_ju

☐ WISPr Authentication

☐ VPN Authentication

☐ Stateful NTLM Authentication

☐ Stateful Kerberos Authentication

**Captive Portal Authentication Profile > wnam\_captive\_portal**

Show Reference Save As Reset

Default Role guest

Default Guest Role guest

Redirect Pause 2 sec

User Login ☒

Guest Login ☒

Logout popup window ☐

Use HTTP for authentication ☒

Login wait minimum wait 5 sec

Login wait maximum wait 10 sec

login wait CPU utilization threshold 60 %

Max Authentication failures 0

Show FQDN ☐

Authentication Protocol PAP

Login page wnam IP /cp/aruba/welcome

Welcome page wnam IP /cp/aruba/welcome

Show Welcome Page ☐

Add switch IP address in the redirection URL ☒

Adding user vlan in redirection URL ☒

Add a controller interface in the redirection URL address Aruba controller IP

Allow only one active user session ☐

White List

wnam\_destination Delete

Black List

apple Delete Add

Show the acceptable use policy page ☐

User idle timeout ☐ Enable seconds

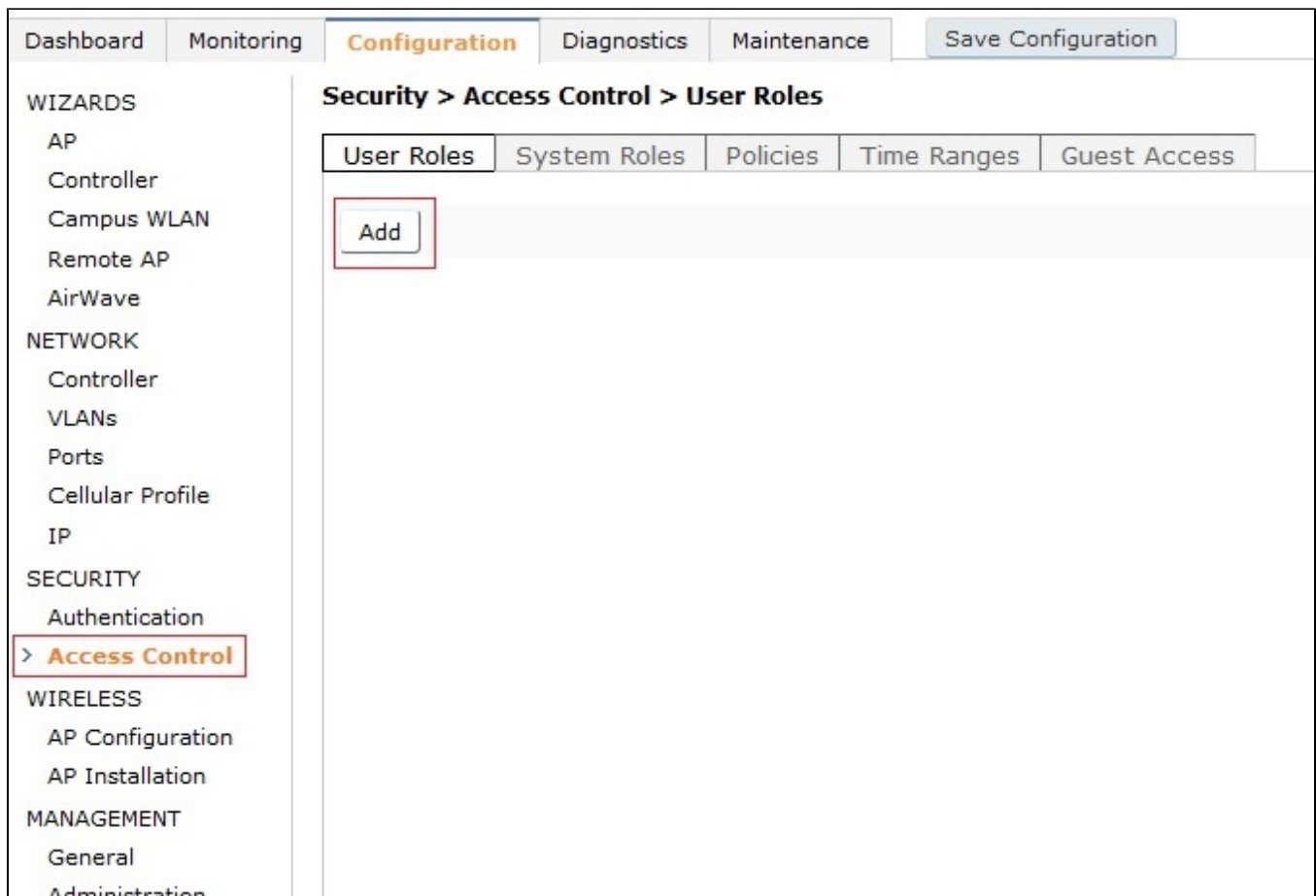
Redirect URL admin

Bypass Apple Captive Network Assistant ☒

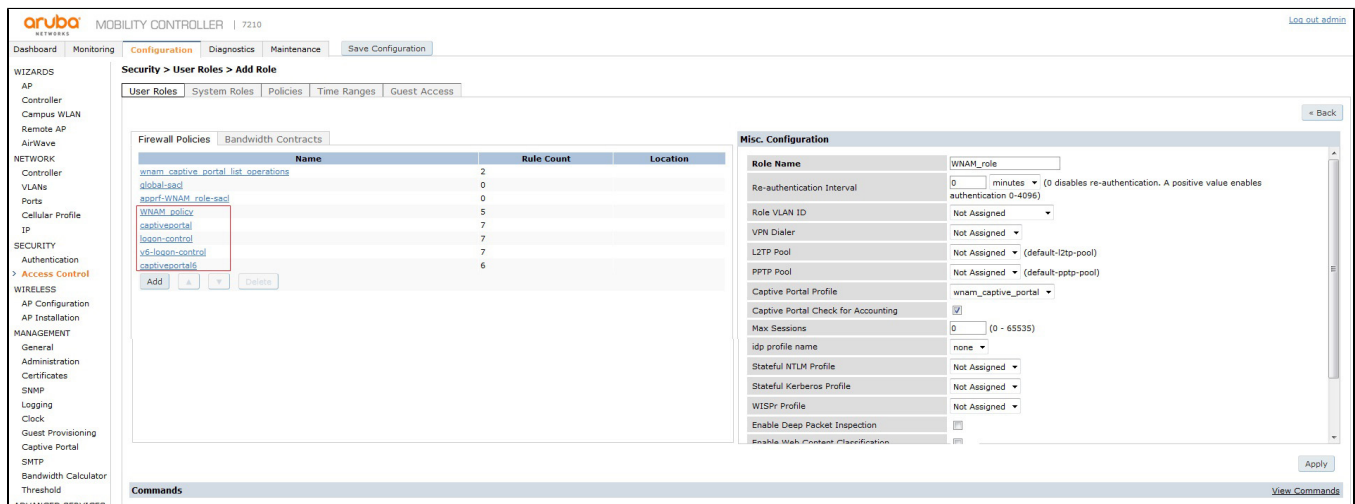
URL Hash Key

Retype: \*\*\*\*\*

17 wnam aaa :



18 wnam\_role policy:



19 wnam policy:

aruba MOBIILITY CONTROLLER | 7210 [Log out admin](#)

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**Security > Firewall Policies > Edit Session (WNAM\_policy)**

User Roles | System Roles | **Policies** | Time Ranges | Guest Access

Back

| IP Version | Source | Destination      | Service/Application | Action | Log | Mirror | Queue | Time Range | Pause ARM Scanning | BlackList | Classify Media | TOS | 802.1p Priority |
|------------|--------|------------------|---------------------|--------|-----|--------|-------|------------|--------------------|-----------|----------------|-----|-----------------|
| IPv4       | user   | wnam_destination | svc-http            | permit |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | user   | wnam_destination | svc-https           | permit |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | any    | any              | svc-dhcp            | permit |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | any    | any              | svc-dns             | permit |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | user   | controller       | svc-https           | permit |     |        | Low   |            |                    |           |                |     |                 |

Add [A] [v] Delete

Note: Application/Web category rule will not be applied to unsupported platform

Apply

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20 captive portal policy:

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**Security > Firewall Policies > Edit Session (captiveportal)**

User Roles | System Roles | **Policies** | Time Ranges | Guest Access

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| IP Version | Source | Destination      | Service/Application | Action       | Log | Mirror | Queue | Time Range | Pause ARM Scanning | BlackList | Classify Media | TOS | 802.1p Priority |
|------------|--------|------------------|---------------------|--------------|-----|--------|-------|------------|--------------------|-----------|----------------|-----|-----------------|
| IPv4       | any    | cp.wi-fi-bar.com | any                 | permit       |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | user   | controller       | svc-https           | dst-nat 8081 |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | user   | any              | svc-https           | dst-nat 8080 |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | any    | any              | svc-https           | dst-nat 8081 |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | user   | any              | svc-http-proxy1     | dst-nat 8088 |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | user   | any              | svc-http-proxy2     | dst-nat 8088 |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | user   | any              | svc-http-proxy3     | dst-nat 8088 |     |        | Low   |            |                    |           |                |     |                 |

Add [A] [v] Delete

Note: Application/Web category rule will not be applied to unsupported platform

Apply

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21 logon-control policy:

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**Security > Firewall Policies > Edit Session (logon-control)**

User Roles | System Roles | **Policies** | Time Ranges | Guest Access

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| IP Version | Source | Destination             | Service/Application | Action | Log | Mirror | Queue | Time Range | Pause ARM Scanning | BlackList | Classify Media | TOS | 802.1p Priority |
|------------|--------|-------------------------|---------------------|--------|-----|--------|-------|------------|--------------------|-----------|----------------|-----|-----------------|
| IPv4       | user   | any                     | udp 68              | deny   |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | any    | any                     | svc-icmp            | permit |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | any    | any                     | svc-dns             | permit |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | any    | any                     | svc-dhcp            | permit |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | any    | any                     | svc-nat             | permit |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | any    | 169.254.0.0 255.255.0.0 | any                 | deny   |     |        | Low   |            |                    |           |                |     |                 |
| IPv4       | any    | 240.0.0.0 240.0.0.0     | any                 | deny   |     |        | Low   |            |                    |           |                |     |                 |

Add [A] [v] Delete

Note: Application/Web category rule will not be applied to unsupported platform

Apply

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22 guest policy:

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**Security > User Roles > Edit Role(guest)**

User Roles | System Roles | Policies | Time Ranges | Guest Access

Back

| Firewall Policies | Bandwidth Contracts | Rule Count | Location |
|-------------------|---------------------|------------|----------|
| global-sad        |                     | 0          |          |
| apport-guest-sad  |                     | 0          |          |
| ra-subid          |                     | 1          |          |
| http-sad          |                     | 1          |          |
| https-sad         |                     | 1          |          |
| dhcp-sad          |                     | 1          |          |
| icmp-sad          |                     | 1          |          |
| dns-sad           |                     | 1          |          |
| vs-http-sad       |                     | 1          |          |
| vs-https-sad      |                     | 1          |          |
| vs-dhcp-sad       |                     | 1          |          |
| vs-icmp-sad       |                     | 1          |          |
| vs-dns-sad        |                     | 1          |          |
| wnam_access       |                     | 1          |          |

Add [A] [v] Delete

**Misc. Configuration**

Re-authentication Interval: 0 minutes (0 disables re-authentication. A positive value enables authentication 0-4096)

Role VLAN ID: Not Assigned

VPN Dialer: Not Assigned

L2TP Pool: Not Assigned (default-l2tp-pool)

PPTP Pool: Not Assigned (default-pptp-pool)

Captive Portal Profile: Not Assigned

Captive Portal Check for Accounting: ☒

Max Sessions: 65535 (0 - 65535)

idp profile name: none

Stateful NTLM Profile: Not Assigned

Stateful Kerberos Profile: Not Assigned

WISPr Profile: Not Assigned

Enable Deep Packet Inspection: ☒

Enable Web Content Classification: ☒

Enable YouTube Education: ☒

Apply

Commands View Commands

23 wnam\_access guest policy:

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Security > User Roles > Edit Role(guest) > Edit Session (wnam\_access)

User Roles | System Roles | Policies | Time Ranges | Guest Access

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| IP Version                                                 | Source | Destination          | Service/Application | Action | Log | Mirror | Queue | Time Range | Pause ARM Scanning | BlackList | Classify Media | TOS | 802.1p Priority |
|------------------------------------------------------------|--------|----------------------|---------------------|--------|-----|--------|-------|------------|--------------------|-----------|----------------|-----|-----------------|
| IPv4                                                       | user   | host wnam ip x.x.x.x | svc-http            | permit |     |        | Low   |            |                    |           |                |     |                 |
| <div>Add</div> <div>↑</div> <div>↓</div> <div>Delete</div> |        |                      |                     |        |     |        |       |            |                    |           |                |     |                 |

Note: Application/Web category rule will not be applied to unsupported platform

Done

24 IP Radius client:

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Certificates

SNMP

Logging

Clock

Guest Provisioning

Captive Portal

SMTP

Security > Authentication > Advanced

Authentication Timers

User Idle Timeout

300

sec

Authentication Server Dead Time (min)

10

Logon User Lifetime (min)

5

User Interim stats frequency

600

sec

RADIUS Client

NAS IPv4 Address

ip aruba для связки с WNAM

Source Interface v4

<--

None

NAS IPv6 Address

::1

Source Interface v6

::

<--

None

DNS Query Interval

DNS Query Interval (min)

15

Survivability

Enable Auth Survivability

☐

Server Certificate

N/A

Cache Lifetime (hrs)

24

Commands

25 :

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NETWORKS

MOBILITY CONTROLLER | 7210

DashboardMonitoringConfigurationDiagnosticsMaintenanceSave Configuration

WIZARDS  
AP  
Controller  
Campus WLAN  
Remote AP  
AirWave  
NETWORK  
Controller  
VLANs  
Ports  
Cellular Profile  
IP  
SECURITY  
Authentication  
Access Control  
WIRELESS  
AP Configuration  
AP Installation  
MANAGEMENT  
General  
Administration

Configuration > AP Group

AP GroupAP Specific

New

wnam\_auth

AddCancel

26 wnam\_auth:

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NETWORKS

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Log out admin

DashboardMonitoringConfigurationDiagnosticsMaintenanceSave Configuration

WIZARDS  
AP  
Controller  
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Guest Provisioning  
Captive Portal  
SMTP  
Bandwidth Calculator  
Threshold  
ADVANCED SERVICES  
Redundancy  
AirGroup  
IP Mobility  
Stateful Firewall  
External Services  
VPN Services  
Wired Access

Configuration > AP Group > Edit "wnam\_auth"

Profiles

Wireless LAN

Profile Details

| Name                    | AAA Profile | SSID Profile | VLAN | Forward mode | Virtual AP enable | Actions |
|-------------------------|-------------|--------------|------|--------------|-------------------|---------|
| Add a profile wnam_auth |             |              |      |              |                   |         |

RF Management  
QOS  
IOS  
Mesh

Commands