

Aruba 6.4

1.2.607 WNAM Aruba (Hewlett Packard Enterprise). Aruba3200 ArubaOS 6.4.2.4.

:

- IP (): 89.11.95.20
- IP (): 172.16.0.1
- IP WNAM: 89.11.95.19
- VLAN : 162
- SSID: aruba

Aruba WNAM , , (SSID VLAN), , . Aruba.

, , Apply.

RADIUS- (WNAM), "Configuration - Security - Authentication" - wnam_radius, (- wnam_radius), , :

The screenshot shows the Aruba Mobility Controller configuration interface. The left sidebar navigation menu includes options like Dashboard, Monitoring, Configuration (which is selected), Diagnostics, Maintenance, Save Configuration, Wizards, AP Controller, Campus WLAN, Remote AP, WIP, AirWave, Network Controller, VLANs, Ports, Cellular Profile, IP, Security, Authentication, Access Control, Wireless, AP Configuration, AP Installation, Management, General, Administration, Certificates, SNMP, Logging, Clock, Guest Provisioning, Captive Portal, SMTP, Bandwidth Calculator, Threshold, Advanced Services, Redundancy, AirGroup, IP Mobility, and Stateful Firewall.

The main configuration page is titled "Security > Authentication > Servers". Under the "Servers" tab, there is a "RADIUS Server > wnam_radius" configuration panel. The fields include:

- Host: 89.11.95.19
- Key: (redacted)
- Retype: (redacted)
- Auth Port: 1812
- Acct Port: 1813
- Retransmits: 3
- Timeout: 5 sec
- NAS ID: Aruba
- NAS IP: 89.11.95.20
- Enable IPv6: (checkbox)
- NAS IPv6: (input field)
- Source Interface: (input field) vlanid (checkbox) ipv6addr
- Use MDS: (checkbox)
- Use IP address for calling station ID: (checkbox)
- Mode: (checkbox) checked
- Lowercase MAC addresses: (checkbox)
- MAC address delimiter: colon
- Service-type of FRAMED-USER: (checkbox)
- called-station-id: (input field)
 - csid_type: macaddr
 - include_ssid: enable
 - csid_delimiter: colon

NAS IP , , WNAM /etc/freeradius/clients.conf.

wnam_radius_sg :

The screenshot shows the Aruba Mobility Controller configuration interface. The left sidebar navigation menu is identical to the previous screenshot.

The main configuration page is titled "Security > Authentication > Servers". Under the "Server Group" tab, there is a table titled "Server Group" with columns: Instance, Servers out of Service, and Actions. The table contains three entries:

Instance	Servers out of Service	Actions
default		Show Reference Delete
internal		Show Reference Delete
wnam_radius_sg		Show Reference Delete

Below the table is an "Add" button.

RFC3567, :

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Dashboard Monitoring Configuration Diagnostics Maintenance Save Configuration

WIZARDS

- AP Controller
- Campus WLAN
- Remote AP
- WIP
- AirWave

NETWORK

- Controller
- VLANs
- Ports
- Cellular Profile
- IP

SECURITY

- > **Authentication**
 - Access Control
 - WIRELESS
 - AP Configuration
 - AP Installation
- MANAGEMENT
- General
- Administration
- Certificates

Configuration > Security > Authentication > Servers

Servers AAA Profiles L2 Authentication L3 Authentication User Rules Advanced

RFC 3576 Server > 89.11.95.19

Key	*****
Retype:	*****

Show Reference Save As Reset

89.11.95.19

"AAA Profiles" , wnam_aaa_profile.

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WIZARDS

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SECURITY

- > **Authentication**
 - Access Control
 - WIRELESS
 - AP Configuration
 - AP Installation
- MANAGEMENT

Configuration > Security > Profiles

Servers AAA Profiles L2 Authentication L3 Authentication User Rules Advanced

AAA Profiles Summary

Name	Role	MAC Auth.	802.1x Auth.	RADIUS Acct.	XML-API Auth.	RFC 3576 Auth.	Actions
wnam_aaa_profile	guest-logon	wnam_radius_sg	89.11.95.19				Show Reference Delete

Add Cancel

. "Initial role". " " . Interim Accounting:

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Dashboard Monitoring Configuration Diagnostics Maintenance Save Configuration

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- General
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- Certificates
- SNMP
- Logging
- Clock
- Guest Provisioning
- Captive Portal

Configuration > Security > Profiles

Servers AAA Profiles L2 Authentication L3 Authentication User Rules Advanced

AAA Profile > wnam_aaa_profile

Initial role	guest-logon
MAC Authentication Default Role	guest
802.1X Authentication Default Role	guest
Download Role from CPPM	<input type="checkbox"/>
L2 Authentication Fall Through	<input type="checkbox"/>
Multiple Server Accounting	<input type="checkbox"/>
User idle timeout	<input type="checkbox"/> Enable seconds <input type="text"/>
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"/>

MAC Authentication
MAC Authentication Server Group: wnam_radius_sg
802.1X Authentication
802.1X Authentication Server Group: wnam_radius_sg
RADIUS Accounting Server Group: wnam_radius_sg
XML API server
RFC 3576 server

- wnam_radius_sg :

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Dashboard **Monitoring** **Configuration** **Diagnostics** **Maintenance** **Save Configuration**

WIZARDS

- AP
- Controller
- Campus WLAN
- Remote AP
- WIP
- AirWave

NETWORK

- Controller
- VLANs
- Ports
- Cellular Profile
- IP

SECURITY

- > Authentication**
- Access Control

WIRELESS

- AP Configuration
- AP Installation

MANAGEMENT

- General
- Administration
- Certificates
- SNMP
- Logging
- Clock
- Guest Provisioning
- Captive Portal

Security > Authentication > Profiles

Servers AAA Profiles L2 Authentication L3 Authentication User Rules Advanced

RADIUS Accounting Server Group > wnam_radius_sg

Show Reference	Save As	Reset
N/A default internal		
Fail Through		
wnam_radius_sg		
Load Balance ++NEW++		

Servers

Name	Server-Type	trim-FQDN	Match-Rule
wnam_radius	Radius	No	

Server Rules

Priority	Attribute	Operation	Operand	Type	Action	Value	Validated
New							

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Dashboard Monitoring Configuration Diagnostics Maintenance Save Configuration

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

Security > Authentication > L3 Authentication

Servers AAA Profiles L2 Authentication L3 Authentication User Rules Advanced

Captive Portal Authentication

- vnam_captive_portal
- vnam_captive_portal
- vnam_captive_portal
- vnam_captive_portal

WISPr Authentication

VPN Authentication

Stateful NTLM Authentication

Stateful Kerberos Authentication

VIA Authentication

VIA Connection

VIA Web Authentication

Captive Portal Authentication Profile

Instance	Actions
vnam_captive_portal	Show Reference Delete

Add

Login page , WNAM, : <http://89.11.95.19/cp/aruba>

Welcome page (). (White list) **wnam_destination**.

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Dashboard Monitoring Configuration Diagnostics Maintenance Save Configuration

WIZARDS

- AP Controller
- Campus WLAN
- Remote AP
- WIP AirWave
- NETWORK Controller
- VLANs Ports
- Cellular Profile IP

SECURITY

- > Authentication**
 - Access Control
 - Wireless AP Configuration
 - AP Installation
- Management General Administration Certificates SNMP Logging Clock Guest Provisioning Captive Portal SMTP Bandwidth Calculator Threshold
- Advanced Services Redundancy AirGroup IP Mobility Stateful Firewall External Services VPN Services Wired Access All Profiles
- E-mail Support

Security > Authentication > L3 Authentication

Servers AAA Profiles L2 Authentication L3 Authentication User Rules Advanced

Captive Portal Authentication Profile > wnam_captive_portal

Show Reference Save As Reset

Default Role	guest
Default Guest Role	guest
Redirect Pause	10 sec
User Login	<input checked="" type="checkbox"/>
Guest Login	<input checked="" type="checkbox"/>
Logout popup window	<input type="checkbox"/>
Use HTTP for authentication	<input checked="" type="checkbox"/>
Logon wait minimum wait	5 sec
Logon wait maximum wait	10 sec
Logon wait CPU utilization threshold	60 %
Max Authentication failures	0
Show FQDN	<input type="checkbox"/>
Authentication Protocol	PAP
Login page	http://89.11.95.19/cp/arub
Welcome page	http://89.11.95.19/cp/arub
Show Welcome Page	<input type="checkbox"/>
Add switch IP address in the redirection URL	<input checked="" type="checkbox"/>
Adding user vlan in redirection URL	<input checked="" type="checkbox"/>
Add a controller interface in the redirection URL	address 89.11.95.20
Allow only one active user session	<input type="checkbox"/>
White List	wnam_destination <input type="button" value="Delete"/> <input type="button" value="ipv6-reserved-range"/> <input type="button" value="Add"/>
Black List	<input type="button" value="Delete"/> <input type="button" value="ipv6-reserved-range"/> <input type="button" value="Add"/>
Show the acceptable use policy page	<input type="checkbox"/>
User idle timeout	seconds
Redirect URL	<input type="text"/>
Bypass Apple Captive Network Assistant	<input checked="" type="checkbox"/>
URL Hash Key	Retype:

Apply View Commands

Commands

(Interim stats). IP , RADIUS- NAS-IP-Address. WNAM (172.16.0.1):

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Dashboard Monitoring Configuration Diagnostics Maintenance Save Configuration

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- NETWORK Controller
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- E-mail Support

Security > Authentication > Advanced

Servers AAA Profiles L2 Authentication L3 Authentication User Rules 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	172.16.0.1
Source Interface v4	<input type="text"/> <-- None
NAS IPv6 Address	::1
Source Interface v6	<input type="text"/> :: <input type="button" value="None"/>

DNS Query Interval

DNS Query Interval (min)	15
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Apply

"Configuration - Security - Access control". guest-logon:

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Dashboard Monitoring Configuration Diagnostics Maintenance Save Configuration

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

Security > Access Control > User Roles

User Roles System Roles Policies Time Ranges Guest Access

Name	Firewall Policies	Bandwidth Contract	Actions
cpbase	global-sacl/apprf-cpbase-sacl/	Up: 3mbps (per role) Down: 3mbps (per role)	Show Reference Edit Delete
default-via-role	global-sacl/apprf-default-via-role-sacl/,allowall/	Up:Not Enforced Down:Not Enforced	Show Reference Edit Delete
default-vpn-role	global-sacl/apprf-default-vpn-role-sacl/,ra-guard/,allowall/,v6-allowall/	Up:Not Enforced Down:Not Enforced	Show Reference Edit Delete
denial	Not Configured	Up:Not Enforced Down:Not Enforced	Show Reference Edit Delete
guest	global-sacl/apprf-guest-sacl/,ra-guard/,http-acl/,https-acl/,dhcp-acl/,icmp-acl/,dns-acl/,v6-http-acl/,v6-https-acl/,v6-dhcp-acl/,v6-icmp-acl/,v6-dns-acl/,wnam_access/	Up:Not Enforced Down:Not Enforced	Show Reference Edit Delete
guest-logon	wnam_captive_portal_list_operations/,ra-guard/,logon-control/,captiveportal/,v6-logon-control/,captiveportal/6/	Up:Not Enforced Down:Not Enforced	Show Reference Edit Delete
guestnet	global-sacl/apprf-guestnet-sacl/	Up:Not Enforced Down:Not Enforced	Show Reference Edit Delete
logon	ra-guard/logon-control/,captiveportal/,vpnlogon/,v6-logon-control/,captiveportal/6/	Up:Not Enforced Down:Not Enforced	Show Reference Edit Delete
voice	global-sacl/apprf-voice-sacl/,ra-guard/,sip-acl/,svp-acl/,vocera-acl/,skinny-acl/,h323-acl/,dhcp-acl/,tftp-acl/,dns-acl/,icmp-acl/	Up:Not Enforced Down:Not Enforced	Show Reference Edit Delete

Add

wnam_captive_portal:

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Dashboard Monitoring Configuration Diagnostics Maintenance Save Configuration

WIZARDS AP Controller Campus WLAN Remote AP WIP AirWave NETWORK Controller VLANs Ports Cellular Profile IP SECURITY Authentication > Access Control WIRELESS AP Configuration AP Installation MANAGEMENT General Administration Certificates SNMP Logging Clock Guest Provisioning Captive Portal emtp

Security > User Roles > Edit Role(guest-logon)

User Roles System Roles Policies Time Ranges Guest Access

Name	Rule Count	Location
wnam_captive_portal_list_operations	2	
ra-guard	1	
logon-control	7	
captiveportal	6	
v6-logon-control	7	
captiveportals	6	

Add

Misc. Configuration

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

Role VLAN ID: Not Assigned

VPN Dailer: Not Assigned

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

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

Captive Portal Profile: wnam_captive_portal

Captive Portal Check for Accounting:

VIA Connection Profile: Not Assigned

Max Sessions: 65535 (0 - 65535)

idp profile name: none

Stateful NTLM Profile: Not Assigned

Stateful Kerberos Profile: Not Assigned

WISP Profile: Not Assigned

Enable Deep Packet Inspection:

Enable Web Content Classification:

Traffic Control Profile: Not Assigned

Apply

wnam_captive_portal_list_operations:

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Dashboard Monitoring Configuration Diagnostics Maintenance Save Configuration

WIZARDS AP Controller Campus WLAN Remote AP WIP AirWave NETWORK Controller VLANs Ports Cellular Profile

Security > User Roles > Edit Role(guest-logon) > Edit Session (wnam_captive_portal_list_operations)

User Roles System Roles Policies Time Ranges Guest Access

Rules

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-https	permit			Low						
IPv4	user	wnam_destination	svc-https	permit			Low						

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

Add

Done

wnam_access:

wnam_access , HTTP WNAME:

Security > Firewall Policies > Edit Session (wnam_access)

User Roles	System Roles	Policies	Time Ranges	Guest Access																																																								
Rules <table border="1"> <thead> <tr> <th>IP Version</th> <th>Source</th> <th>Destination</th> <th>Service/Application</th> <th>Action</th> <th>Log</th> <th>Mirror</th> <th>Queue</th> <th>Time Range</th> <th>Pause ARM Scanning</th> <th>BlackList</th> <th>Classify Media</th> <th>TOS</th> <th>802.1p Priority</th> </tr> </thead> <tbody> <tr> <td>Add</td> <td><input type="button" value="Up"/></td> <td><input type="button" value="Down"/></td> <td><input type="button" value="Delete"/></td> <td></td> </tr> <tr> <td>IPv4</td> <td>user</td> <td>host IP 89.11.95.19</td> <td>service Service svc-https (tcp 80)</td> <td>permit</td> <td><input type="radio"/> Low</td> <td><input type="radio"/> High</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="14"> <input type="button" value="Add"/> <input type="button" value="Cancel"/> </td> </tr> </tbody> </table> <p>Note: Application/Web category rule will not be applied to unsupported platform</p>					IP Version	Source	Destination	Service/Application	Action	Log	Mirror	Queue	Time Range	Pause ARM Scanning	BlackList	Classify Media	TOS	802.1p Priority	Add	<input type="button" value="Up"/>	<input type="button" value="Down"/>	<input type="button" value="Delete"/>											IPv4	user	host IP 89.11.95.19	service Service svc-https (tcp 80)	permit	<input type="radio"/> Low	<input type="radio"/> High								<input type="button" value="Add"/> <input type="button" value="Cancel"/>													
IP Version	Source	Destination	Service/Application	Action	Log	Mirror	Queue	Time Range	Pause ARM Scanning	BlackList	Classify Media	TOS	802.1p Priority																																															
Add	<input type="button" value="Up"/>	<input type="button" value="Down"/>	<input type="button" value="Delete"/>																																																									
IPv4	user	host IP 89.11.95.19	service Service svc-https (tcp 80)	permit	<input type="radio"/> Low	<input type="radio"/> High																																																						
<input type="button" value="Add"/> <input type="button" value="Cancel"/>																																																												

. - guestnet:

The screenshot shows the Aruba Mobility Controller configuration interface. The top navigation bar includes tabs for Dashboard, Monitoring, Configuration (selected), Diagnostics, Maintenance, and Save Configuration. A sidebar on the left lists various configuration categories like Wizards, AP, Controller, Campus WLAN, Remote AP, WIP, AirWave, NETWORK, SECURITY, WIRELESS, and AP Configuration (which is currently selected). The main content area is titled "Configuration > AP Group > Edit "guestnet"" and displays the "Profiles" section for the "Virtual AP > guestnet" profile. The profiles listed include "vnam_aaa_profile" (Virtual AP), "aruba" (SSID), and "wmm" (WMM Traffic Management). The "Profile Details" tab is active, showing sections for Basic (Virtual AP enable checked, VLAN 162, Forward mode tunnel), RF (Allowed band all, Band Steering checked, Steering Mode prefer-5ghz), and Broadcast/Multicast (Dynamic Multicast Optimization (DMO) unchecked, Drop Broadcast and Unknown Multicast checked, Convert Broadcast ARP requests to unicast unchecked). Buttons for Show Reference, Save As, and Reset are located at the top right of the profile details section.

wnam_aaa_profile:

aruba MOBILITY CONTROLLER | Dashboard Monitoring Configuration Diagnostics Maintenance Save Configuration Log out remote

WIZARDS

- AP Controller
- Campus WLAN
- Remote AP
- WIP
- AirWave

NETWORK

- Controller
- VLANs
- Ports
- Cellular Profile
- IP

SECURITY

- Authentication
- Access Control

WIRELESS

- > AP Configuration
- AP Installation

MANAGEMENT

- General
- Administration
- Certificates
- SNMP
- Logging
- Clock
- Guest Provisioning
- Captive Portal
- SMTP
- Bandwidth Calculator
- Threshold

Profiles

Category	Profile Name	Owner
Wireless LAN	guestnet	wnam_aaa_profile
Virtual AP	Hotspot 2.0	default
AAA	802.1X	aruba
SSID	EDCA Parameters Station	aruba
EDCA Parameters AP	High-throughput SSID	default
WMM Traffic Management	802.11r	wmm
RF Management	RF	
AP	QoS	
IDS	Mesh	

Profile Details

AAA Profile > wnam_aaa_profile Show Reference

Initial role	guest-logon
MAC Authentication Default Role	guest
802.1X Authentication Default Role	guest
Download Role from CPPM	<input type="checkbox"/>
L2 Authentication Fail Through	<input type="checkbox"/>
Multiple Server Accounting	<input type="checkbox"/>
User idle timeout	<input checked="" type="checkbox"/> Enable seconds <input type="text" value="1800"/>
RADIUS Interim Accounting	<input checked="" type="checkbox"/>
User derivation rules	<input type="text" value="--NONE--"/>
Wired to Wireless Roaming	<input checked="" type="checkbox"/>
SIP authentication role	<input type="text" value="--NONE--"/>
Device Type Classification	<input checked="" type="checkbox"/>
Enforce DHCP	<input type="checkbox"/>
PAN Firewall Integration	<input type="checkbox"/>
MAC Authentication Profile	wnam_radius_sg
MAC Authentication Server Group	wnam_radius_sg
802.1X Authentication Profile	wnam_radius_sg
RADIUS Accounting Server Group	wnam_radius_sg
XML API server	
RFC 3576 server	89.11.95.19

Aruba .

WNAM Aruba, IP-, NAS-IP-Address RADIUS- . - Aruba (DHCP-), NetFlow.

Изменение сервера

Тип

IP адрес

Местоположение

Логин

Пароль

Использовать счетчики аккаунтинга

Определять имена абонентов

Принимать детализацию потоков NetFlow

Сбросить сессии **Удалить** **Сохранить изменения** **Закрыть**

```
ip access-list standard wnam_whitelist
permit host 89.11.95.19
```

```

netdestination wnam_destination
host 89.11.95.19

ip access-list session wnam_access
user host 89.11.95.19 svc-http permit

user-role guest-logon
captive-portal "wnam_captive_portal"
access-list session ra-guard
access-list session logon-control
access-list session captiveportal
access-list session v6-logon-control
access-list session captiveportal6

user-role guest
access-list session global-sacl
access-list session apprf-guest-sacl
access-list session ra-guard
access-list session http-acl
access-list session https-acl
access-list session dhcp-acl
access-list session icmp-acl
access-list session dns-acl
access-list session v6-http-acl
access-list session v6-https-acl
access-list session v6-dhcp-acl
access-list session v6-icmp-acl
access-list session v6-dns-acl
access-list session wnam_access

aaa rfc-3576-server "89.11.95.19"
key XXX

aaa authentication mac "wnam_mac_authprofile"
delimiter colon
case upper

aaa authentication-server radius "wnam_radius"
host "89.11.95.19"
key XXX
nas-identifier "Aruba"
nas-ip 89.11.95.20
mac-delimiter colon
called-station-id type macaddr include-ssid enable delimiter colon

aaa server-group "wnam_radius_sg"
auth-server wnam_radius

aaa profile "wnam_aaa_profile"
initial-role "guest-logon"
mac-server-group "wnam_radius_sg"
radius-accounting "wnam_radius_sg"
radius-interim-accounting
rfc-3576-server "89.11.95.19"

aaa authentication captive-portal "wnam_captive_portal"
server-group "wnam_radius_sg"
guest-logon
no logout-popup-window
protocol-http
login-page "http://89.11.95.19/cp/aruba"
welcome-page "http://89.11.95.19/cp/aruba?welcome"
no enable-welcome-page
switchip-in-redirection-url
user-vlan-in-redirection-url
ip-addr-in-redirection-url "89.11.95.20"
white-list "wnam_destination"
apple-cna-bypass

```

```
wlan virtual-ap "guestnet"
  aaa-profile "wnam_aaa_profile"
  ssid-profile "cittel-aruba"
  vlan 162
  band-steering
  broadcast-filter all
  deny-inter-user-traffic
  dos-prevention
  wmm-traffic-management-profile "wnm"
!
ap-group "guestnet"
  virtual-ap "guestnet"
```