

Web Auth

! WebAuth . CWA.

WNAM Cisco WLC :

- (ACL) .
- WNAM.
- (Layer 3 security) -.
- RADIUS- .
- WNAM.

- . , "welcome-wnam".

The screenshot shows the Cisco WLC web interface. The top navigation bar includes links for MONITOR, WLANs, CONTROLLER, WIRELESS, SECURITY, and M. The left sidebar is titled "Security" and contains a tree view of configuration options. The "Access Control Lists" option is highlighted with a red circle. The main content area is titled "Access Control Lists" and includes an "Enable Counters" checkbox, a table with columns "Name" and "Type", and a "Foot Notes" section.

Name	Type
welcome-wnam	IPv4

Foot Notes

1. Counter configuration is global for acl and layer2acl.

. -, WNAM. IP- WNAM - 10.20.30.36. TCP- -. , WNAM Tomcat - 80 (HTTP,) 8080. - .

CISCO MONITOR WLANs CONTROLLER WIRELESS **SECURITY** MANAGEMENT COMMANDS HELP FEEDBACK

Security

AAA

- General
- RADIUS
 - Authentication
 - Accounting
 - Fallback
 - DNS
 - Downloaded AVP
- TACACS+
 - LDAP
 - Local Net Users
 - MAC Filtering
 - Disabled Clients
 - User Login Policies
 - AP Policies
 - Password Policies
- Local EAP
 - Advanced EAP
 - Priority Order
 - Certificate
 - Access Control Lists**
 - Access Control Lists
 - URL Access Control Lists
 - FlexConnect ACLs
 - Layer2 ACLs

Access Control Lists > Edit

General

Access List Name welcome-wnam

Deny Counters 0

Seq	Action	Source IP/Mask	Destination IP/Mask	Protocol	Source Port	Dest Port	DSCP	Direction	Number of Hits
1	Permit	0.0.0.0 / 0.0.0.0	10.20.30.36 / 255.255.255.255	TCP	Any	HTTP	Any	Any	0
2	Permit	10.20.30.36 / 255.255.255.255	0.0.0.0 / 0.0.0.0	TCP	HTTP	Any	Any	Any	0

WNAM 10.20.30.36 (: <http://10.20.30.36/cp/cisco>). , , (, , ..) WNAM. .

URL (Redirect URL after login), URL WNAM, .

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 - Wireless Protection Policies
 - Web Auth**
 - Web Login Page
 - Certificate

Web Login Page

Web Authentication Type External (Redirect to external server)

Redirect URL after login <http://10.20.30.36/cp/cisco>

External Webauth URL <http://10.20.30.36/cp/cisco>

. HTTPS- - (GUI 7.3):

```
config network web-auth secureweb disable
```


Apple Captive Network Assistant (CNA) iOS :

```
config network web-auth captive-bypass disable
```

. . . :

save config
reset system

(WLAN) 3. (Preauthentication ACL IPv4).

 FlexConnect FlexConnect Local Switching, ACL "FlexConnect Access Control Lists", "WebAuth FlexAcl". , .

2 () WPA/WPA2 PSK.

WLANs

WLANs

WLANs

Advanced

WLANs > Edit 'test'

General

Security

QoS

Policy-Mapping

Advanced

Layer 2

Layer 3

AAA Servers

Layer 3 Security ¹ Web Policy

☒ Authentication

☐ Passthrough

☐ Conditional Web Redirect

☐ Splash Page Web Redirect

☐ On MAC Filter failure ¹⁰

Preauthentication ACL IPv4 welcome-wnam IPv6 None WebAuth FlexAcl None

Sleeping Client ☐ Enable

Over-ride Global Config ☐ Enable

, (RADIUS-). RADIUS- (, SSID WPS2 Enterprise), WNAME. (Interim update).

WLANs

WLANs

WLANs

Advanced

WLANs > Edit 'test'

General

Security

QoS

Policy-Mapping

Advanced

Layer 2

Layer 3

AAA Servers

Select AAA servers below to override use of default servers on this WLAN

RADIUS Servers

RADIUS Server Overwrite interface ☐ Enabled

Authentication Servers

Accounting Servers

EAP Parameters

☒ Enabled

☒ Enabled

Enable ☐

Server 1 None None

Server 2 None None

Server 3 None None

Server 4 None None

Server 5 None None

Server 6 None None

RADIUS Server Accounting

Interim Update ☐

. 10.20.30.36 (WNAME) 1812 1813. Called Station MAC-.

[MONITOR](#)
[WLANs](#)
[CONTROLLER](#)
[WIRELESS](#)
[SECURITY](#)
[MANAGEMENT](#)
[COMMANDS](#)
[HELP](#)
[FEEDBACK](#)

Security

AAA

General

RADIUS

Authentication

Accounting

Fallback

DNS

Downloaded AVP

TACACS+

LDAP

Local Net Users

MAC Filtering

Disabled Clients

User Login Policies

AP Policies

Password Policies

Local EAP

RADIUS Authentication Servers

Auth Called Station ID Type

AP MAC Address

Use AES Key Wrap

☐

(Designed for FIPS customers and requires a key wrap compliant RADIUS server)

MAC Delimiter

Colon

Network User	Management	Server Index	Server Address(Ipv4/Ipv6)	Port	IPSec	Admin Status
<input type="checkbox"/>	<input type="checkbox"/>	1		1812	Disabled	Enabled <input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	2		1812	Disabled	Enabled <input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	10.20.30.36	1812	Disabled	Enabled <input type="checkbox"/>

FreeRADIUS (/etc/freeradius/clients.conf) IP- (shared secret). WNAME, Support for RFC 3576 "Enable" (Pacoet of Disconnect Change of Authority).

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[WIRELESS](#)
[SECURITY](#)
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AP Policies

Password Policies

Local EAP

Advanced EAP

Priority Order

Certificate

Access Control Lists

Access Control Lists

CPU Access Control Lists

FlexConnect ACLs

Layer2 ACLs

RADIUS Authentication Servers > Edit

Server Index

3

Server Address(Ipv4/Ipv6)

10.20.30.36

Shared Secret Format

ASCII

Shared Secret

...

Confirm Shared Secret

...

Key Wrap

☐

(Designed for FIPS customers and requires a key wrap compliant RADIUS server)

Port Number

1812

Server Status

Enabled

Support for RFC 3576

Disabled

Server Timeout

2 seconds

Network User

☒ Enable

Management

☐ Enable

IPSec

☐ Enable

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Password Policies

Local EAP

RADIUS Accounting Servers

Acct Called Station ID Type

AP MAC Address

MAC Delimiter

Colon

Network User	Server Index	Server Address(Ipv4/Ipv6)	Port	IPSec	Admin Status
<input checked="" type="checkbox"/>	1	10.20.30.36	1813	Disabled	Enabled <input type="checkbox"/>

CISCO

MONITOR

WLANS

CONTROLLER

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Access Control Lists

Access Control Lists

CPU Access Control Lists

FlexConnect ACLs

Layer2 ACLs

RADIUS Accounting Servers > Edit

Server Index

1

Server Address(Ipv4/Ipv6)

10.20.30.36

Shared Secret Format

ASCII

Shared Secret

...

Confirm Shared Secret

...

Port Number

1813

Server Status

Enabled

Server Timeout

2

seconds

Network User

☒ Enable

[Realm List](#)

IPSec

☐ Enable

WNAM (" ").

Изменение сервера

Тип

Cisco WLC

IP адрес

Имя устройства

wlc1.b

Местоположение

FNM B

Комментарий

Логин

Пароль

Порт CoA

3799

Ключ CoA

☒
Использовать счетчики аккаунтинга

☒
Определять имена абонентов

☐
Принимать детализацию потоков NetFlow

Вкл.

Сбросить сессии

Удалить

Сохранить изменения

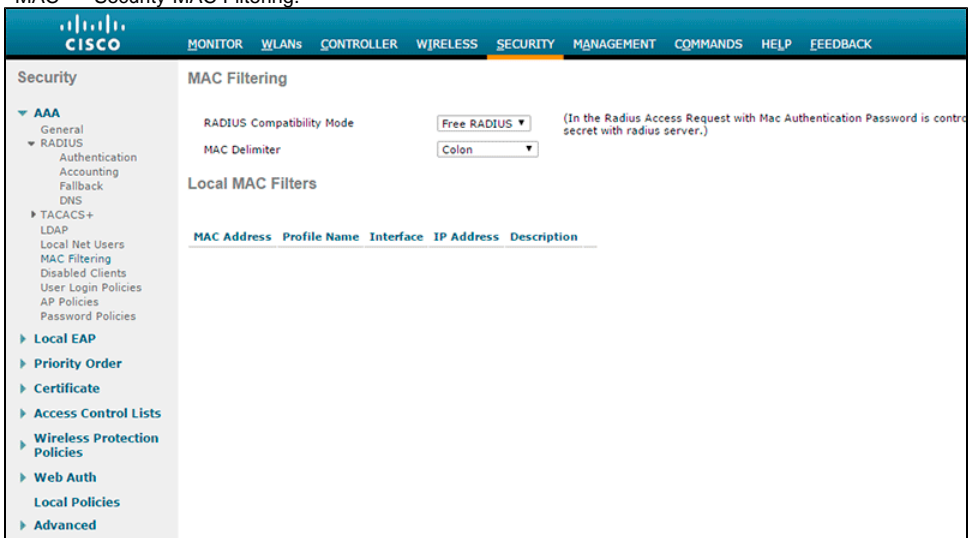
Заккрыть

IP-, , RADIUS- "NAS-IP-Address", (RADIUS-). Telnet (). (RADIUS-) .

, , (, ///) , , :

- FreeRADIUS RADIUS Auth Acct "password" (, wnam-freeradius-bridge.pl wnam.properties). , , **/etc/freeradius/clients.conf** Security-AAA-RADIUS-Authentication Accounting.

- MAC- Security-MAC Filtering.



CISCO | MONITOR | WLANs | CONTROLLER | WIRELESS | **SECURITY** | MANAGEMENT | COMMANDS | HELP | FEEDBACK

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- Wireless Protection Policies
- Web Auth
- Local Policies
- Advanced

MAC Filtering

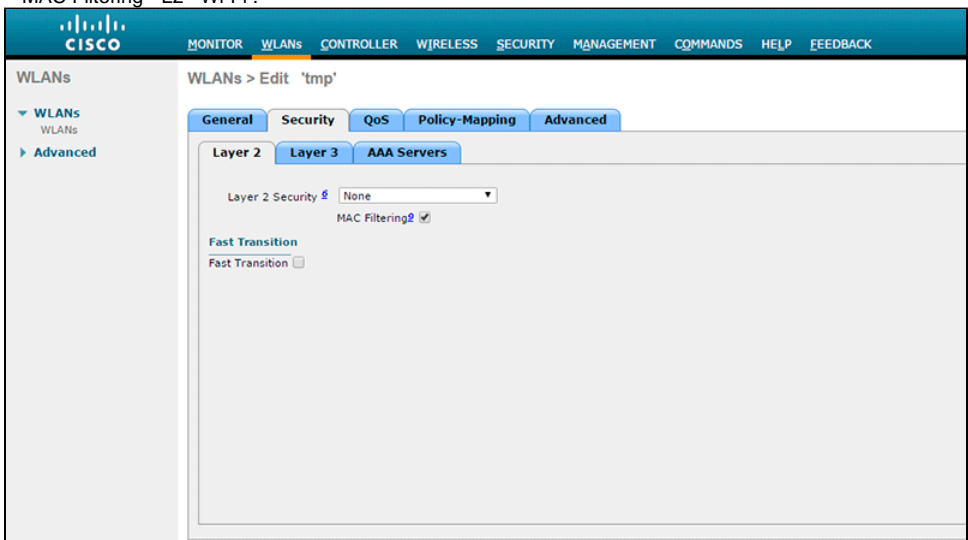
RADIUS Compatibility Mode: (In the Radius Access Request with Mac Authentication Password is control secret with radius server.)

MAC Delimiter:

Local MAC Filters

MAC Address	Profile Name	Interface	IP Address	Description
-------------	--------------	-----------	------------	-------------

- "MAC Filtering" L2 Wi-Fi .



CISCO | MONITOR | **WLANs** | CONTROLLER | WIRELESS | SECURITY | MANAGEMENT | COMMANDS | HELP | FEEDBACK

WLANs

- WLANs
 - WLANs
 - Advanced

WLANs > Edit 'tmp'

General | **Security** | QoS | Policy-Mapping | Advanced

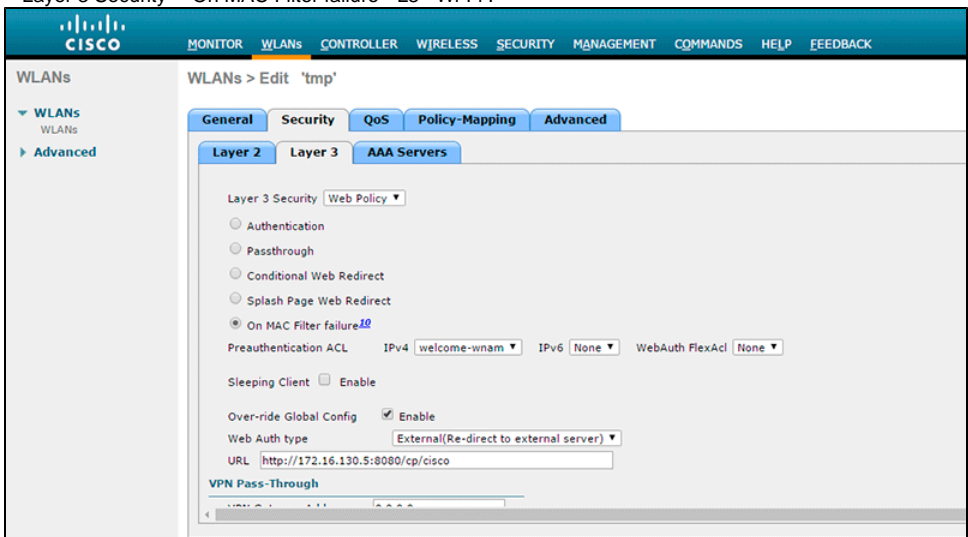
Layer 2 | **Layer 3** | AAA Servers

Layer 2 Security:

Fast Transition

Fast Transition ☐

- "Layer 3 Security" "On MAC Filter failure" L3 Wi-Fi .



CISCO | MONITOR | **WLANs** | CONTROLLER | WIRELESS | SECURITY | MANAGEMENT | COMMANDS | HELP | FEEDBACK

WLANs

- WLANs
 - WLANs
 - Advanced

WLANs > Edit 'tmp'

General | **Security** | QoS | Policy-Mapping | Advanced

Layer 2 | **Layer 3** | AAA Servers

Layer 3 Security:

☐ Authentication
☐ Passthrough
☐ Conditional Web Redirect
☐ Splash Page Web Redirect
☒ On MAC Filter failure

Preauthentication ACL: IPv4 IPv6 WebAuth FlexAcl

Sleeping Client ☐ Enable

Over-ride Global Config ☒ Enable

Web Auth type:

URL:

VPN Pass-Through

- "" , , VIP ("").

Параметры записи о пользователе

MAC

4C:57:CA:2C:0F:4C

Последний IP адрес

192.168.180.5

Время создания

29.10.2016, 16:53:59

Время последнего подключения

29.10.2016, 17:08:13

Всего принято, Мб

3

Всего отправлено, Мб

1

DHCP идентификатор

Сессий

2

Имя

4C:57:CA:2C:0F:4C

Вендор

Apple

Телефон

791

Код sms-авторизации

5778

Комментарий

User-Agent: Mozilla/5.0 (iPhone; CPU iPhone OS 10_0_2 like Mac OS X) AppleWebKit/602.1.50 (KHTML, like Gecko) Version/10.0 Mobile/14A456 Safari/602.1

Статус

Не блокирован

Все сессии пользователя

Очистить сессии

Удалить

Разблокировать

VIP (без рекламы)

Блокировка навсегда

Блок 1 час

Блок 6 часов

Блок 12 часов

Блок 1 день

Блок 7 дней

Блок 1 месяц

Блок 3 месяца

Блок 6 месяцев

Блок 1 год

: Wi-Fi Cisco WLC , WNAME , IP- , - WNAME RADIUS:

```
rad_recv: Access-Request packet from host 10.208.144.213 port 32769, id=63,
length=168
  User-Name = "5c:57:ca:3c:0f:4c"
  Called-Station-Id = "00:21:55:4e:15:d0:tmp"
  Calling-Station-Id = "5c:57:ca:3c:0f:4c"
  NAS-Port = 1
  NAS-IP-Address = 10.208.144.213
  NAS-Identifier = "tmp-wlan"
  Airespace-Wlan-Id = 2
  User-Password = "password"
  Service-Type = Call-Check
  Framed-MTU = 1300
  NAS-Port-Type = Wireless-802.11
  Tunnel-Type:0 = VLAN
  Tunnel-Medium-Type:0 = IEEE-802
  Tunnel-Private-Group-Id:0 = "406"
```

WNAME "OK" "FAIL" , . : , , "VIP ()", (Acct Start). WNAME . .
 , "Call-Check" (,) WNAME "FAIL", "WEBAUTH_REQD", HTTP- , WNAME.
 VIP- (VIP).