

CWA 2504, 55, vWLC

1.4.1391 WNAME . Cisco Cisco ISE, WNAME ISE . ISE .

- Cisco :

- - ;
- (WNAME);
- ();
- RADIUS- .

, . DNS, SSL-. URL <http://1.1.1.1/> "".

, , CWA :

- RADIUS- (WNAME) ACL URL ;
- - ();
- (WNAME);
- WNAME RADIUS CoA ;
- RADIUS- "";
- WNAME .

, .

CWA SSID, , , DHCP .

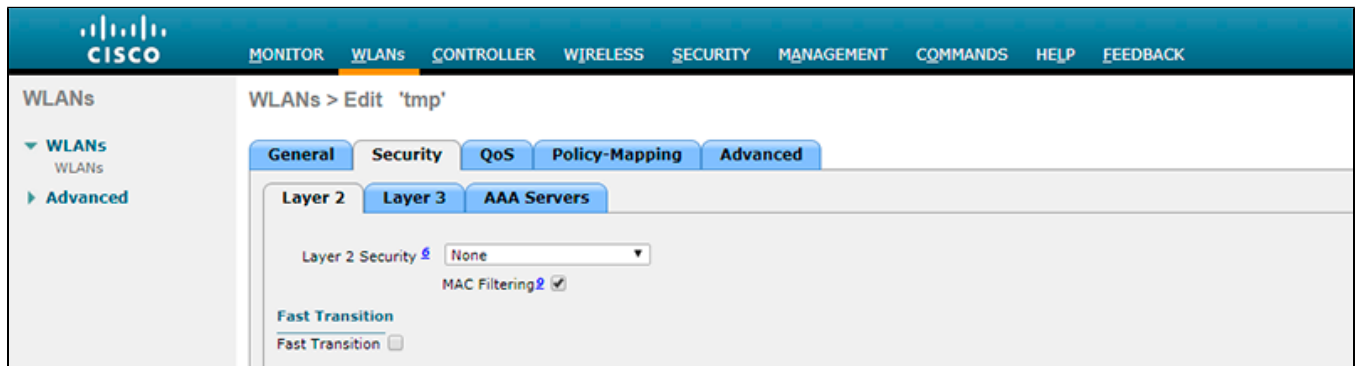
:

- 172.16.130.13 - RADIUS- WNAME;
- 172.16.130.5 8080 - WNAME, RADIUS CoA ;
- 10.208.144.213 - Cisco vWLC 8.0.140.0;
- 10.208.148.0/24 - ;
- SSID - tmp.

WNAME ,.. (- RADIUS-) . IP-, , IP-, .

1.

SSID "" , , -, DHCP, NAT,. SSID . L2 ("Layer 2 Security" "None"), "Mac Filtering" . Cisco.



L3 "Layer 3 Security" (Web Auth).



"Servers" (WNAME), Interim Update ().

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

WLANs

WLANs > Edit 'tmp'

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	
☒ Enabled	Server 1 IP:172.16.130.13, Port:1812	☒ Enabled	Server 1 IP:172.16.130.13, Port:1813
	Server 2 None		Server 2 None
	Server 3 None		Server 3 None
	Server 4 None		Server 4 None
	Server 5 None		Server 5 None
	Server 6 None		Server 6 None

Radius Server Accounting

Interim Update ☒ Interim Interval 300

LDAP Servers

"Advanced" :

- Allow AAA Override;
- DHCP address assignment - Required;
- NAC State: RADIUS NAC (ISE NAC).

"Client Exclusion".

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

WLANs

WLANs > Edit 'tmp'

General Security QoS Policy-Mapping Advanced

Allow AAA Override ☒ Enabled

Coverage Hole Detection ☒ Enabled

Enable Session Timeout ☐

Aironet IE ☐ Enabled

Diagnostic Channel 18 ☐ Enabled

Override Interface ACL IPv4 None IPv6 None

Layer2 Acl None

P2P Blocking Action Disabled

Client Exclusion ☐ Enabled

Maximum Allowed Clients 0

Static IP Tunneling ☐ Enabled

Wi-Fi Direct Clients Policy Disabled

Maximum Allowed Clients Per AP Radio 200

Clear HotSpot Configuration ☐ Enabled

Client user idle timeout(15-1000000) ☐

Client user idle threshold (0-10000000) 0 Bytes

DHCP

DHCP Server ☐ Override

DHCP Addr. Assignment ☒ Required

OEAP

Split Tunnel ☐ Enabled

Management Frame Protection (MFP)

MFP Client Protection ☐ Optional

DTIM Period (in beacon intervals)

802.11a/n (1 - 255) 1

802.11b/g/n (1 - 255) 1

NAC

NAC State Radius NAC

Load Balancing and Band Select

ACL (), WNAME . ACL ("wname_cwa").



ACL WNAME : WNAME "wname-cwa" "cwa_wname".



CISCO

MONITORWLANsCONTROLLERWIRELESSSECURITYMANAGEMENTCOMMANDSHelpFEEDBACK

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

CPU Access Control Lists

FlexConnect ACLs

Layer2 ACLs

Access Control Lists

Enable Counters

Name	Type	
welcome-wnam	IPv4	
wnam_cwa	IPv4	

Foot Notes

1. Counter configuration is global for acl and layer2acl.

ACL , DNS-. DNS- , . () .

 ACL "Access Control Lists" , (..) .

, FlexConnect, wnam_cwa "FlexConnect ACLs". ACL Wireless FlexConnect Groups ACL Mapping Policies.

Wireless

Access Points

All APs

Radios

802.11a/n/ac

802.11b/g/n

Dual-Band Radios

Global Configuration

Advanced

Mesh

RF Profiles

FlexConnect Groups

FlexConnect ACLs

OEAP ACLs

Network Lists

FlexConnect Groups > Edit 'HREAP1'

GeneralLocal AuthenticationImage UpgradeACL MappingCentral DHCPWLAN VLAN mapping

AAA VLAN-ACL mappingWLAN-ACL mappingPolicies

Policies

Policy ACL wnam_flex

Add

Policy Access Control Lists

wnam_flex

ACL - VLAN, WLAN .. .

. :.13 () .5 (CoA).

Security Access Control Lists > Edit

General

Access List Name: **wnam_cwa**

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	0.0.0.0 / 0.0.0.0	UDP	DNS	Any	Any	Any	0
2	Permit	0.0.0.0 / 0.0.0.0	0.0.0.0 / 0.0.0.0	UDP	Any	DNS	Any	Any	0
3	Permit	0.0.0.0 / 0.0.0.0	172.16.130.5 / 255.255.255.255	Any	Any	Any	Any	Any	0
4	Permit	172.16.130.5 / 255.255.255.255	0.0.0.0 / 0.0.0.0	Any	Any	Any	Any	Any	0
5	Deny	0.0.0.0 / 0.0.0.0	0.0.0.0 / 0.0.0.0	Any	Any	Any	Any	Any	0

"Auth Called Station ID Type" (AP MAC Address::SSID).

Security RADIUS Authentication Servers

Auth Called Station ID Type: **AP MAC Address::SSID**

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
☒	☐	1		1812	Disabled	Enabled
☒	☐	2		1812	Disabled	Enabled
☒	☐	3	172.16.130.13	1812	Disabled	Enabled
☒	☐	4		1812	Disabled	Enabled
☒	☒	5	172.16.130.5	1812	Disabled	Enabled

. /etc/freeradius/clients.conf (WNAM 1.6). "Support for RFC 3576" ("Support for CoA").

Security RADIUS Authentication Servers > Edit

Server Index: **5**

Server Address(Ipv4/Ipv6): **172.16.130.5**

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: **Enabled**

Server Timeout: **2** seconds

Network User: ☒ **Enable**

Management: ☒ **Enable**

[Realm List](#)

IPSec: ☐ **Enable**

- "RADIUS Accounting Servers" .

MONITORWLANsCONTROLLERWIRELESSSECURITYMANAGEMENTCOMMANDSHELPFEEDBACK

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 Accounting Servers

Acct Called Station ID TypeAP MAC Address:SSID
MAC DelimiterColon

Network User	Server Index	Server Address(Ipv4/Ipv6)	Port	IPSec	Admin Status
☒	1	172.16.130.13	1813	Disabled	Enabled ☒

(,).

MONITORWLANsCONTROLLERWIRELESSSECURITYMANAGEMENTCOMMANDSHELPFEEDBACK

Security

AAA
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User Login Policies
AP Policies
Password Policies
Local EAP
Advanced EAP
Priority Order
Certificate
Access Control Lists

RADIUS Accounting Servers > Edit

Server Index1
Server Address(Ipv4/Ipv6)172.16.130.13
Shared Secret FormatASCII
Shared Secret***
Confirm Shared Secret***
Port Number1813
Server StatusEnabled
Server Timeout2 seconds
Network User☒ Enable
Realm List
IPSec☐ Enable

. WNAM.

2. WNAM

Cisco WLC ("" "). , , .

Изменение сервера доступа

Параметры

RADIUS

TACACS+

Категории

Клиент

Тип

Cisco WLC

Имя устройства

wlc.2h

IP адрес (NAS-IP-Address)

10.208.144.213

Внешний IP адрес

192.168.1.1

Местоположение

HF lab r550a

Комментарий

Логин

Пароль

☒ Использовать счетчики аккаунтинга

получено 0 записей

☐ Менять местами счетчики приёма/передачи

☒ Определять имена устройств абонентов

☐ Принимать детализацию потоков NetFlow

получено 0 записей

Вкл.

Сохранить изменения

Закреть

RADIUS " " :

- cisco-avpair=url-redirect=http://__wnam/cp/cisco?%URL%
- cisco-avpair=url-redirect-acl=wnam_cwa



, , , cisco-avpair = url-redirect-acl=wnam_cwa.

, ACL , . %URL% WNAM . , . WNAM HTTPS (80), URL .

RADIUS () CoA.

Изменение сервера доступа

Параметры

RADIUS

TACACS+

Категории

Атрибуты предварительной авторизации

cisco-avpair=url-redirect=http://имя_вашего_сервера_wnam/cp/cisco?%URL%
cisco-avpair=url-redirect-acl=wnam_cwa

Атрибуты CoA / пост-авторизации

Секретный ключ

Порт CoA

1700

("" ""). () . , WNAM , RADIUS CoA ().

" ID" () WLAN/SSID , . RADIUS- Airespace-Wlan-Id, .

Изменение площадки

Параметры

Авторизация

Перенаправление

Ограничения

Соцсети

RADIUS

Номер

4

Тип

Площадка

Адрес/название

HF WIFI LAN

Контактное лицо

Anton

Комментарий

Присвоенная IP подсеть

10.208.148.0/24

Тэг

Разрешенный сервер доступа

HF Lab r550a 10.208.144.213

Дополнительный ID на этом сервере

Категории

1

Вкл.

Удалить

Сохранить изменения

Закрыть

WNAM .

3.

WNAM Wi-Fi . WNAM .

Параметры записи о сессии



MAC	24:0D:C2:B7:F9:B6	IP адрес	10.208.148.176
Время начала	19.08.2017, 12:46:34	Время завершения	19.08.2017, 12:48:14
Длительность	0ч 1м 40с	Сервер доступа	10.208.144.213
Принято, байт	483203	Отправлено, байт	93159
Площадка	4 HF WIFI LAN		
Точка доступа	34:A8:4E:6A:C6:40 SSID=tmp (Cisco AP)	Канал	
Пользователь	24:0D:C2:B7:F9:B6 android-e4e5e79dad599c31	79995552211	
Идентификатор сессии	d590d00a00000576fb089859-b7f9b6		

Потоки данных в этой сессии

Параметры учетной записи пользователя

Заккрыть