

无线局域网模板的聚合的访问统一的快速参考

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Introduction

本文为基本和已知第2层和第3层无线局域网(WLAN)配置提供快速参考CLI配置模板。基本模板为快速提供复制和插入到Cisco下一代配线间(NGWC) 5760和3850无线局域网控制器(WLC)实验室重新创建和用户初始安装。

Prerequisites

Requirements

Cisco建议您有知识NGWC版本3.3或以上。预计交换机虚拟接口(SVIs)，并且监听的DHCP池/每最佳实践预先配置。

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

第2层安全

打开WLAN没有安全

```
wlan 1 name testwlan ssid testwlan
  client vlan 20
  no security wpa
  no shut
```

静态有线等效保密(WEP)

```
wlan staticWEP 6 staticWEP
  client vlan 79
  no security wpa
  no security wpa akm dot1x
  no security wpa wpa2
  no security wpa wpa2 ciphers aes
  security static-wep-key encryption 40 ascii 0 Cisco 1
  session-timeout 1800
  no shutdown
```

MAC过滤器-本地数据库

```
username 24770319eB75 mac

aaa new-model
aaa authorization network test_mac local

wlan macfiltering 6 macfiltering
  client vlan Vlan7
  mac-filtering test_mac
  no security wpa
  no security wpa akm dot1x
  no security wpa wpa2
  no security wpa wpa2 ciphers aes
  no shutdown
```

MAC过滤器-外部Radius

```
aaa new-model
aaa group server radius wcm_rad

server name RAD_EXT
subscriber mac-filtering security-mode mac
```

```
mac-delimiter colon

radius server RAD_EXT
address ipv4 x.x.x.x auth-port 1812 acct-port 1813
key cisco

aaa authorization network wcm_macfilter group wcm_rad

wlan macfiltering 1 macfiltering
client vlan Vlan7
mac-filtering wcm_macfilter
no security wpa
no security wpa akm dot1x
no security wpa wpa2
no security wpa wpa2 ciphers aes
no shutdown
```

无线受保护的访问2 (WPA2)预共享密钥(PSK)

```
wlan wpa2psk 1 wpa2psk
client vlan 20
no security wpa akm dot1x
security wpa akm psk set-key ascii 0 Cisco123
no shutdown
```

802.1x本地可扩展的认证协议(EAP)认证(作为本地RADIUS使用的NGWC)

```
user-name test
privilege 15
password 0 cisco
type network-user description pass=cisco
aaa new-model
aaa authentication dot1x default local
aaa authorization credential-download author_list local
aaa authentication dot1x authen_list local
aaa local authentication authen_list authorization author_list
dot1x system-auth-control
eap profile PEAPProfile
method ?
fast      EAP-FAST method allowed
gtc       EAP-GTC method allowed
leap      EAP-LEAP method allowed
md5       EAP-MD5 method allowed
mschapv2  EAP-MSCHAPV2 method allowed
peap      EAP-PEAP method allowed
tls       EAP-TLS method allowed

method peap
method mschapv2
wlan TestNGWC 1 TestNGWC
client vlan VLAN0080
ip dhcp server 192.168.80.14
local-auth PEAPProfile
```

在外部Radius的802.1x

```
user-name test
```

```
privilege 15
password 0 cisco
type network-user description pass=cisco
aaa new-model
aaa authentication dot1x default local
aaa authorization credential-download author_list local
aaa authentication dot1x authen_list local
aaa local authentication authen_list authorization author_list
dot1x system-auth-control
eap profile PEAPProfile
method ?
  fast      EAP-FAST method allowed
  gtc       EAP-GTC method allowed
  leap      EAP-LEAP method allowed
  md5       EAP-MD5 method allowed
  mschapv2  EAP-MSCHAPV2 method allowed
  peap      EAP-PEAP method allowed
  tls       EAP-TLS method allowed

method peap
method mschapv2
wlan TestNGWC 1 TestNGWC
client vlan VLAN0080
ip dhcp server 192.168.80.14
local-auth PEAPProfile
```

第3层安全

Web转接

```
user-name test
privilege 15
password 0 cisco
type network-user description pass=cisco
aaa new-model
aaa authentication dot1x default local
aaa authorization credential-download author_list local
aaa authentication dot1x authen_list local
aaa local authentication authen_list authorization author_list
dot1x system-auth-control
eap profile PEAPProfile
method ?
  fast      EAP-FAST method allowed
  gtc       EAP-GTC method allowed
  leap      EAP-LEAP method allowed
  md5       EAP-MD5 method allowed
  mschapv2  EAP-MSCHAPV2 method allowed
  peap      EAP-PEAP method allowed
  tls       EAP-TLS method allowed

method peap
method mschapv2
wlan TestNGWC 1 TestNGWC
client vlan VLAN0080
ip dhcp server 192.168.80.14
local-auth PEAPProfile
```

Web认证本地认证

```

user-name test
  privilege 15
  password 0 cisco
  type network-user description pass=cisco
aaa new-model
aaa authentication dot1x default local
aaa authorization credential-download author_list local
aaa authentication dot1x authen_list local
aaa local authentication authen_list authorization author_list
dot1x system-auth-control
eap profile PEAPProfile
method ?
  fast      EAP-FAST method allowed
  gtc       EAP-GTC method allowed
  leap      EAP-LEAP method allowed
  md5       EAP-MD5 method allowed
  mschapv2  EAP-MSCHAPV2 method allowed
  peap      EAP-PEAP method allowed
  tls       EAP-TLS method allowed

method peap
method mschapv2
wlan TestNGWC 1 TestNGWC
  client vlan VLAN0080
  ip dhcp server 192.168.80.14
  local-auth PEAPProfile

```

与外部RADIUS认证(ISE)的Web认证

```

user-name test
  privilege 15
  password 0 cisco
  type network-user description pass=cisco
aaa new-model
aaa authentication dot1x default local
aaa authorization credential-download author_list local
aaa authentication dot1x authen_list local
aaa local authentication authen_list authorization author_list
dot1x system-auth-control
eap profile PEAPProfile
method ?
  fast      EAP-FAST method allowed
  gtc       EAP-GTC method allowed
  leap      EAP-LEAP method allowed
  md5       EAP-MD5 method allowed
  mschapv2  EAP-MSCHAPV2 method allowed
  peap      EAP-PEAP method allowed
  tls       EAP-TLS method allowed

method peap
method mschapv2
wlan TestNGWC 1 TestNGWC
  client vlan VLAN0080
  ip dhcp server 192.168.80.14
  local-auth PEAPProfile

```

[外部 Web 身份验证](#)

```

user-name test
 privilege 15
 password 0 cisco
 type network-user description pass=cisco
aaa new-model
aaa authentication dot1x default local
aaa authorization credential-download author list local
aaa authentication dot1x authen list local
aaa local authentication authen list authorization author list
dot1x system-auth-control
eap profile PEAPProfile
method ?
 fast      EAP-FAST method allowed
 gtc       EAP-GTC method allowed
 leap      EAP-LEAP method allowed
 md5       EAP-MD5 method allowed
 mschapv2  EAP-MSCHAPV2 method allowed
 peap      EAP-PEAP method allowed
 tls       EAP-TLS method allowed
.
 method peap
 method mschapv2
wlan TestNGWC 1 TestNGWC
 client vlan VLAN0080
 ip dhcp server 192.168.80.14
 local-auth PEAPProfile

```

与本地认证的定制的Web认证

```

ip http server
ip device tracking

```

```

aaa new-model
aaa authentication login local_webauth local
aaa authorization network default local
aaa authorization credential-download default local

```

```

username <username> password 0 <password>

```

FTP Configuration for file transfer:

```

ip ftp username <username>
ip ftp password <password>

```

Upload custom html files to flash: with command:
5760# **copy ftp://x.x.x.x/webauth_login.html flash:**

Example of flash content:

```

w-5760-2#dir flash:

```

Directory of flash:/

```

64649 -rw-      1164   Oct 7 2013 04:36:23 +00:00  webauth_failure.html
64654 -rw-      2047   Oct 7 2013 13:32:38 +00:00  webauth_login.html
64655 -rw-      1208   Oct 7 2013 04:34:12 +00:00  webauth_success.html
64656 -rw-       900   Oct 7 2013 04:35:00 +00:00  webauth_expired.html
64657 -rw-     96894   Oct 7 2013 05:05:09 +00:00  web_auth_logo.png
64658 -rw-     23037   Oct 7 2013 13:17:58 +00:00  web_auth_cisco.png
64660 -rw-     2586   Oct 7 2013 13:31:27 +00:00  web_auth_aup.html

```

```
parameter-map type webauth global
virtual-ip ipv4 1.1.1.1
```

```
parameter-map type webauth custom
type webauth
redirect on-success http://www.cisco.com
banner text ^C CC global ip for redirect ^C
  custom-page login device flash:webauth_login.html
  custom-page success device flash:webauth_success.html
  custom-page failure device flash:webauth_failure.html
  custom-page login expired device flash:webauth_expired.html
```

```
wlan cisco 1 cisco
client vlan Vlanx
no security wpa
no security wpa akm dot1x
no security wpa wpa2
no security wpa wpa2 ciphers aes
security web-auth
security web-auth authentication-list local_webauth
security web-auth parameter-map custom
session-timeout 1800
no shutdown
```

自动锚点Web认证

```
//Verify//
```

```
show wireless mobility summary
<snip>
```

IP	Public IP	Group Name	Multicast IP	Link Status
192.168.100.8	-	ngwc	0.0.0.0	UP : UP
192.168.100.15	192.168.100.15	5760		UP : UP

```
radius server ise
  address ipv4 192.168.154.119 auth-port 1812 acct-port 1813
  key Cisco123
```

```
aaa group server radius rad_ise
  server name ise
```

```
aaa authentication login ext_ise group rad_ise
parameter-map webauth global
virtual-ip ipv4 1.1.1.1
parameter-map type webauth test_web
  type webauth
  banner
```

WLAN configs on the Foreign 5760

```
wlan ngwc_guest 3 ngwc_guest
client vlan 254
mobility anchor 192.168.100.8 //Anchor
no security wpa
no security wpa akm dot1x
no security wpa wpa2
```

```
no security wpa wpa2 ciphers aes
security web-auth
security web-auth authentication-list wcm_local
security web-auth parameter-map test_web
no shutdown
```

WLAN configs on the Anchor 5760

```
wlan ngwc_guest 3 ngwc_guest
client vlan 254
mobility anchor 192.168.100.8 //Local
no security wpa
no security wpa akm dot1x
no security wpa wpa2
no security wpa wpa2 ciphers aes
security web-auth
security web-auth authentication-list rad_ise
security web-auth parameter-map test_web
no shutdown
```