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简介

本文为基本和已知Layer2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思科下一代配线间(NGWC) 5760和3850无线局域网控制器(WLC)实验室重新创建和客户初始安装。

先决条件

要求

思科建议您有知识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。

使用的组件

本文档不限于特定的软件和硬件版本。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始(默认)配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

第2层安全

打开WLAN没有安全

静态有线等效保密(WEP)

MAC过滤器-本地数据库

MAC过滤器-外部Radius

无线受保护的访问2 (WPA2)预先共享密钥(PSK)

802.1x本地可扩展的认证协议(EAP)验证(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 Passthrough

```
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验证本地认证

```
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验证(ISE)的Web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
```

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验证

```

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验证

```
//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
```