

Referência rápida consolidada de acesso convergido para modelos de LAN sem fio

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Introduction

Este documento fornece modelos de configuração de CLI de referência rápida para configurações básicas e conhecidas de LAN sem fio (WLAN) de Camada 2 e Camada 3. Os modelos básicos são fornecidos para uma cópia e colagem rápidas no laboratório Cisco Next Generation Wiring Closet (NGWC) 5760 e 3850 Wireless LAN Controller (WLC) e instalações iniciais do cliente.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento do NGWC versão 3.3 ou posterior. Espera-se que as interfaces virtuais do switch (SVIs) e os pools/rastreamento de DHCP sejam pré-

configurados de acordo com as práticas recomendadas.

Componentes Utilizados

Este documento não se restringe a versões de software e hardware específicas.

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.

Segurança da camada 2

ABRIR WLAN sem segurança

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

WEP (Static Wired Equivalent Privacy)

```
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
```

Filtro MAC - Banco de Dados Local

```
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
```

Filtro MAC - Raio externo

```

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

```

WPA2 (Wireless Protected Access 2) Chave pré-compartilhada (PSK)

```

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

```

Autenticação do Protocolo de Autenticação Extensível Local (EAP - Local Extensible Authentication Protocol) 802.1x (NGWC usado como RADIUS Local)

```

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
```

802.1x em Raio Externo

```
aaa new-model
!
!
aaa group server radius ACS
server name ACS
!
aaa authentication dot1x ACS group ACS

radius server ACS
address ipv4 10.106.102.50 auth-port 1645 acct-port 1646
key Cisco123

dot1x system-auth-control

wlan EAPFAST 4 EAPFAST
client vlan VLAN0020
security dot1x authentication-list ACS
session-timeout 1800
no shutdown
```

Segurança da camada 3

Passagem da Web

```
parameter-map type webauth global
type consent
virtual-ip ipv4 192.168.200.1
!
!
parameter-map type webauth web
type consent
```

```
wlan Webauth 9 Webauth
client vlan VLAN0020
no security wpa
no security wpa akm dot1x
no security wpa wpa2
no security wpa wpa2 ciphers aes
security web-auth
security web-auth parameter-map web
session-timeout 1800
```

Autenticação local de autenticação da Web

```
aaa new-model
aaa authentication login wcm_local local
aaa authorization network default local
```

```

aaa authorization credential-download default local
username test password 0 test12345
parameter-map type webauth global
virtual-ip ipv4 1.1.1.1
parameter-map type webauth test_web
    type webauth
    banner c test webauth c
ip http server
ip http authentication local
ip http secure-server

```

```

wlan local_webauth 11 local_webauth
client vlan 263
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

```

Autenticação da Web com Autenticação RADIUS Externa (ISE)

```

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 type webauth global
virtual-ip ipv4 1.1.1.1
parameter-map type webauth test_web
    type webauth
    banner c test webauth c
wlan local_webauth 11 local_webauth
client vlan 263
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 ext_ise
security web-auth parameter-map test_web
no shutdown

```

Autenticação da Web externa

```

//Parameter Map //
parameter-map type webauth test_web
type webauth
redirect for-login https://192.168.154.119:8443/guestportal/portals/
external_webauth/portal.jsp

redirect portal ipv4 192.168.154.119

redirect on-success <url> //Optional//
redirect on-failure <url> //Optional//

```

banner

```
//Pre auth ACL//
ip access-lists extended preauth_ise
    10 permit udp any eq bootps any
    20 permit udp any any eq bootpc
    30 permit udp any eq bootpc any
    40 permit udp any any eq domain
    50 permit udp any eq domain any
    60 permit ip any host 192.168.154.119
    70 permit ip host 192.168.154.119 any
wlan external_webauth 11 external_webauth
client vlan 263
ip access-group web preauth_ise
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 ext_ise
security web-auth parameter-map test_web
no shutdown
```

Autenticação da Web personalizada com autenticação local

```
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

```

Autenticação da Web de âncora automática

```
//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
```