

与内部RADIUS服务器配置示例的聚合的访问5760，3850和3650系列WLC EAP-FAST

TAC

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简介

本文描述如何配置Cisco聚合的访问5760，3850和3650系列无线局域网控制器(WLCs)为了作为通过安全协议的RADIUS服务器(EAP-FAST执行Cisco扩展验证灵活协议验证，在本例中)客户端验证的。

通常外部RADIUS服务器用于为了验证用户，在某些情况下不是可行解决方案。在这些情况下，一聚合的访问WLC能作为RADIUS服务器，用户验证本地数据库在WLC配置。此功能称为本地

RADIUS 服务器功能。

[先决条件](#)

[要求](#)

Cisco 建议您在尝试进行此配置之前了解下列主题：

- Cisco IOS GUI或CLI与聚合的访问5760，3850和3650系列WLC
- 可扩展的认证协议(EAP)概念
- 服务集标识(SSID)配置
- RADIUS

[使用的组件](#)

本文档中的信息基于以下软件和硬件版本：

- Cisco 5760系列WLC版本3.3.2 (下一代配线间[NGWC])
- Cisco 3602系列轻量级接入点(AP)
- 有英特尔PROset请求方的Microsoft Windows XP
- Cisco Catalyst 3560 系列交换机

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。

[配置](#)

Note:使用[命令查找工具](#)（[仅限注册用户](#)）可获取有关本部分所使用命令的详细信息。

[网络图](#)

此镜像提供网络图的示例：

[配置概述](#)

此配置在两个步骤完成：

1. 配置本地EAP方法的WLC和与CLI或GUI的相关认证和授权配置文件。
2. 配置WLAN并且映射有认证和授权配置文件的方法列表。

[配置与CLI的WLC](#)

完成这些步骤为了配置与CLI的WLC :

1. 启用在WLC的AAA型号 :

```
aaa new-model
```

2. 定义认证和授权 :

```
aaa local authentication eapfast authorization eapfast
```

```
aaa authentication dot1x eapfast local
```

```
aaa authorization credential-download eapfast local
```

```
aaa authentication dot1x default local
```

3. 配置本地Eap profile和方法(EAP-FAST用于此示例) :

```
eap profile eapfast
```

```
method fast
```

```
!
```

4. 配置先进的EAP-FAST参数 :

```
eap method fast profile eapfast
```

```
description test
```

```
authority-id identity 1
```

```
authority-id information 1
```

```
local-key 0 cisco123
```

5. 配置WLAN并且映射本地授权配置文件对WLAN :

```
wlan eapfastlocal 13 eapfastlocal
```

```
client vlan VLAN0020
```

```
local-auth eapfast
```

```
session-timeout 1800
```

```
no shutdown
```

6. 配置基础设施为了支持客户端连接 :

```
ip dhcp snooping vlan 12,20,30,40,50
```

```
ip dhcp snooping
```

```
!
```

```
ip dhcp pool vlan20
```

```
network 20.20.20.0 255.255.255.0
```

```
default-router 20.20.20.251
```

```
dns-server 20.20.20.251
```

```
interface TenGigabitEthernet1/0/1
```

```
switchport trunk native vlan 12
```

```
switchport mode trunk
```

```
ip dhcp relay information trusted
```

```
ip dhcp snooping trust
```

配置与GUI的WLC

完成这些步骤为了配置与GUI的WLC：

1. 配置验证的方法列表：

配置eapfast类型作为Dot1x。

配置eapfast组类型作为本地。

2. 配置授权的方法列表：

配置eapfast类型作为凭证下载。

配置eapfast组类型作为本地。

3. 配置本地Eap profile：

4. 创建新配置文件并且选择EAP类型：

配置文件名称是eapfast，并且选定EAP类型EAP-FAST：

5. 配置EAP-FAST方法参数：

服务器密钥配置作为Cisco123。

6. 检查Dot1x系统验证控制复选框并且选择方法列表的eapfast。这帮助您进行本地EAP验证。

7. 配置WPA2 AES加密的WLAN：

8. 在AAA服务器选项卡，请映射Eap profile名称eapfast对WLAN：

验证

完成这些步骤为了验证您的配置适当地工作：

1. 联络客户端对WLAN：
2. 验证受保护的访问凭证(PAC)弹出式出现，并且您必须接受为了成功验证：

故障排除

思科建议您使用跟踪为了排除故障无线问题。跟踪在圆的缓冲区保存并且不是密集的处理。

使这些跟踪为了获取Layer2 (L2)验证日志：

- 设置trace组无线安全级别调试
- 设置trace组无线安全过滤器mac0021.6a89.51ca

使这些跟踪为了获取DHCP事件日志：

- 设置trace dhcp事件级别调试
- 设置trace dhcp事件过滤器mac 0021.6a89.51ca

这是成功的跟踪一些示例：

```
[04/10/14 18:49:50.719 IST 3 8116] 0021.6a89.51ca Association received from
mobile on AP c8f9.f983.4260

[04/10/14 18:49:50.719 IST 4 8116] 0021.6a89.51ca qos upstream policy is
unknown and downstream policy is unknown
[04/10/14 18:49:50.719 IST 5 8116] 0021.6a89.51ca apChanged 1 wlanChanged 0
mscb ipAddr 20.20.20.6, apf RadiusOverride 0x0, numIPv6Addr=0
[04/10/14 18:49:50.719 IST 6 8116] 0021.6a89.51ca Applying WLAN policy on MSCB.
[04/10/14 18:49:50.719 IST 7 8116] 0021.6a89.51ca Applying WLAN ACL policies
to client

[04/10/14 18:49:50.719 IST 9 8116] 0021.6a89.51ca Applying site-specific IPv6
override for station 0021.6a89.51ca - vapId 13, site 'default-group',
interface 'VLAN0020'
[04/10/14 18:49:50.719 IST a 8116] 0021.6a89.51ca Applying local bridging
Interface Policy for station 0021.6a89.51ca - vlan 20, interface 'VLAN0020'
[04/10/14 18:49:50.719 IST b 8116] 0021.6a89.51ca STA - rates (8):
140 18 152 36 176 72 96 108 48 72 96 108 0 0 0 0

[04/10/14 18:49:50.727 IST 2f 8116] 0021.6a89.51ca Session Manager Call Client
57ca4000000048, uid 42, capwap id 50b94000000012,Flag 4, Audit-Session ID
0a6987b253468efb0000002a, method list
```

[04/10/14 18:49:50.727 IST 30 22] ACCESS-CORE-SM-CLIENT-SPI-NOTF:
[0021.6a89.51ca, Ca3] Session update from Client[1] for 0021.6a89.51ca,
ID list 0x00000000

[04/10/14 18:49:50.727 IST 31 22] ACCESS-CORE-SM-CLIENT-SPI-NOTF:
[0021.6a89.51ca, Ca3] (UPD): method: Dot1X, method list: none, aaa id:
0x0000002A

**[04/10/14 18:49:50.727 IST 32 22] ACCESS-CORE-SM-CLIENT-SPI-NOTF:
[0021.6a89.51ca, Ca3] (UPD): eap profile: eapfast**

[04/10/14 18:49:50.728 IST 4b 278] ACCESS-METHOD-DOT1X-DEB:[0021.6a89.51ca,Ca3]
Posting AUTH_START for 0xF700000A

[04/10/14 18:49:50.728 IST 4c 278] ACCESS-METHOD-DOT1X-DEB:[0021.6a89.51ca,Ca3]
0xF700000A:entering request state

[04/10/14 18:49:50.728 IST 4d 278] ACCESS-METHOD-DOT1X-NOTF:[0021.6a89.51ca,Ca3]
Sending EAPOL packet

[04/10/14 18:49:50.728 IST 4e 278] ACCESS-METHOD-DOT1X-INFO:[0021.6a89.51ca,Ca3]
Platform changed src mac of EAPOL packet

[04/10/14 18:49:50.728 IST 4f 278] ACCESS-METHOD-DOT1X-INFO:[0021.6a89.51ca,Ca3]
EAPOL packet sent to client 0xF700000A

[04/10/14 18:49:50.728 IST 50 278] ACCESS-METHOD-DOT1X-DEB:[0021.6a89.51ca,Ca3]
0xF700000A:idle request action

[04/10/14 18:49:50.761 IST 51 8116] 0021.6a89.51ca 1XA: Received 802.11 EAPOL
message (len 5) from mobile

**[04/10/14 18:49:50.761 IST 52 8116] 0021.6a89.51ca 1XA: Received EAPOL-Start
from mobile**

[04/10/14 18:49:50.761 IST 53 8116] 0021.6a89.51ca 1XA: EAPOL-Start -
EAPOL start message from mobile as mobile is in Authenticating state, restart
authenticating

[04/10/14 18:49:50.816 IST 95 278] ACCESS-METHOD-DOT1X-DEB:[0021.6a89.51ca,Ca3]
0xF700000A:entering response state

[04/10/14 18:49:50.816 IST 96 278] ACCESS-METHOD-DOT1X-NOTF:[0021.6a89.51ca,Ca3]
Response sent to the server from 0xF700000A

[04/10/14 18:49:50.816 IST 97 278] ACCESS-METHOD-DOT1X-DEB:[0021.6a89.51ca,Ca3]
0xF700000A:ignore response action

[04/10/14 18:49:50.816 IST 98 203] Parsed CLID MAC Address = 0:33:106:137:81:202

[04/10/14 18:49:50.816 IST 99 203] AAA SRV(00000000): process authen req

[04/10/14 18:49:50.816 IST 9a 203] AAA SRV(00000000): Authen method=LOCAL

[04/10/14 18:49:50.846 IST 11d 181] ACCESS-CORE-SM-CLIENT-SPI-NOTF:
[0021.6a89.51ca, Ca3] Session authz status notification sent to Client[1] for
0021.6a89.51ca with handle FE000052, list 630007B2

[04/10/14 18:49:50.846 IST 11e 181]ACCESS-METHOD-DOT1X-NOTF:[0021.6a89.51ca,Ca3]
Received Authz Success for the client 0xF700000A (0021.6a89.51ca)

[04/10/14 18:49:50.846 IST 11f 271] ACCESS-METHOD-DOT1X-DEB:[0021.6a89.51ca,Ca3]
Posting AUTHZ_SUCCESS on Client 0xF700000A

[04/10/14 18:49:50.846 IST 120 271] ACCESS-METHOD-DOT1X-DEB:[0021.6a89.51ca,Ca3]
0xF700000A:entering authenticated state

[04/10/14 18:49:50.846 IST 121 271]ACCESS-METHOD-DOT1X-NOTF:[0021.6a89.51ca,Ca3]
EAPOL success packet was sent earlier.

[04/10/14 18:49:50.846 IST 149 8116] 0021.6a89.51ca 1XA:authentication succeeded

[04/10/14 18:49:50.846 IST 14a 8116] 0021.6a89.51ca 1XK: Looking for BSSID
c8f9.f983.4263 in PMKID cache

[04/10/14 18:49:50.846 IST 14b 8116] 0021.6a89.51ca 1XK: Looking for BSSID
c8f9.f983.4263 in PMKID cache

[04/10/14 18:49:50.846 IST 14c 8116] 0021.6a89.51ca **Starting key exchange with
mobile - data forwarding is disabled**

[04/10/14 18:49:50.846 IST 14d 8116] 0021.6a89.51ca 1XA: **Sending EAPOL message
to mobile, WLAN=13 AP WLAN=13**

[04/10/14 18:49:50.858 IST 14e 8116] 0021.6a89.51ca 1XA: Received 802.11 EAPOL
message (len 123) from mobile

[04/10/14 18:49:50.858 IST 14f 8116] 0021.6a89.51ca 1XA: Received EAPOL-Key from
mobile

```
[04/10/14 18:49:50.858 IST 150 8116] 0021.6a89.51ca 1XK: Received EAPOL-key in PTK_START state (msg 2) from mobile
[04/10/14 18:49:50.858 IST 151 8116] 0021.6a89.51ca 1XK: Stopping retransmission timer
[04/10/14 18:49:50.859 IST 152 8116] 0021.6a89.51ca 1XA: Sending EAPOL message to mobile, WLAN=13 AP WLAN=13
[04/10/14 18:49:50.862 IST 153 8116] 0021.6a89.51ca 1XA: Received 802.11 EAPOL message (len 99) from mobile
[04/10/14 18:49:50.862 IST 154 8116] 0021.6a89.51ca 1XA: Received EAPOL-Key from mobile
[04/10/14 18:49:50.862 IST 155 8116] 0021.6a89.51ca 1XK: Received EAPOL-key in PTKINITNEGOTIATING state (msg 4) from mobile

[04/10/14 18:49:50.863 IST 172 338] [WCDB] wcdb_ffcp_cb: client (0021.6a89.51ca) client (0x57ca4000000048): FFCP operation (UPDATE) return code (0)
[04/10/14 18:49:50.914 IST 173 273] dhcp pkt processing routine is called for pak with SMAC = 0021.6a89.51ca and SRC_ADDR = 0.0.0.0
[04/10/14 18:49:50.914 IST 174 219] sending dhcp packet outafter processing with SMAC = 0021.6a89.51ca and SRC_ADDR = 0.0.0.0
[04/10/14 18:49:50.914 IST 175 256] DHCPD: address 20.20.20.6 mask 255.255.255.0
[04/10/14 18:49:54.279 IST 176 273] dhcp pkt processing routine is called for pak with SMAC = 0021.6a89.51ca and SRC_ADDR = 20.20.20.6
[04/10/14 18:49:54.279 IST 177 219] sending dhcp packet outafter processing with SMAC = 0021.6a89.51ca and SRC_ADDR = 20.20.20.6
```

本文档是否是有用？[有](#) [没有](#)

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