

# 在統一無線網路中配置接入點授權

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## 簡介

本檔案將說明如何設定WLC，以根據AP的MAC位址授權存取點(AP)。

## 必要條件

### 需求

思科建議您瞭解以下主題：

- 有關如何配置思科身份服務引擎(ISE)的基本知識
- Cisco AP和Cisco WLC的配置知識
- 思科統一無線安全解決方案知識

### 採用元件

本文中的資訊係根據以下軟體和硬體版本：

- 執行AireOS 8.8.111.0軟體的WLCWave1 AP:1700/2700/3700和3500 ( 1600/2600/3600仍受支援，但AireOS支援在8.5.x版結束 ) Wave2 AP:1800/2800/3800/4800、1540和1560 ISE版本 2.3.0.298

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

## 輕量AP授權

在AP註冊過程中，AP和WLC使用X.509證書相互進行身份驗證。Cisco在工廠將X.509證書燒錄到AP和WLC上的受保護快閃記憶體中。

在AP上，出廠安裝的證書稱為製造安裝的證書(MIC)。所有在2005年7月18日之後生產的思科AP都具有MIC。

除了在註冊過程中發生的這種相互身份驗證外，WLC還可以根據AP的MAC地址限制向其註冊的AP。

使用AP MAC位址時缺少強式密碼不會造成問題，因為控制器在透過RADIUS伺服器授權AP之前，會使用MIC來驗證AP。MIC的使用提供了強大的身份驗證。

AP授權可通過兩種方式執行：

- 使用WLC上的內部授權清單
- 在AAA伺服器上使用MAC地址資料庫

AP的行為因使用的證書而異：

- 具有SSC的AP - WLC僅使用內部授權清單，不會將請求轉發到這些AP的RADIUS伺服器
- 使用MIC的AP - WLC可以使用WLC上配置的內部授權清單，或使用RADIUS伺服器來授權AP

本文討論使用內部授權清單和AAA伺服器進行AP授權。

## 設定

### 使用WLC上的內部授權清單設定

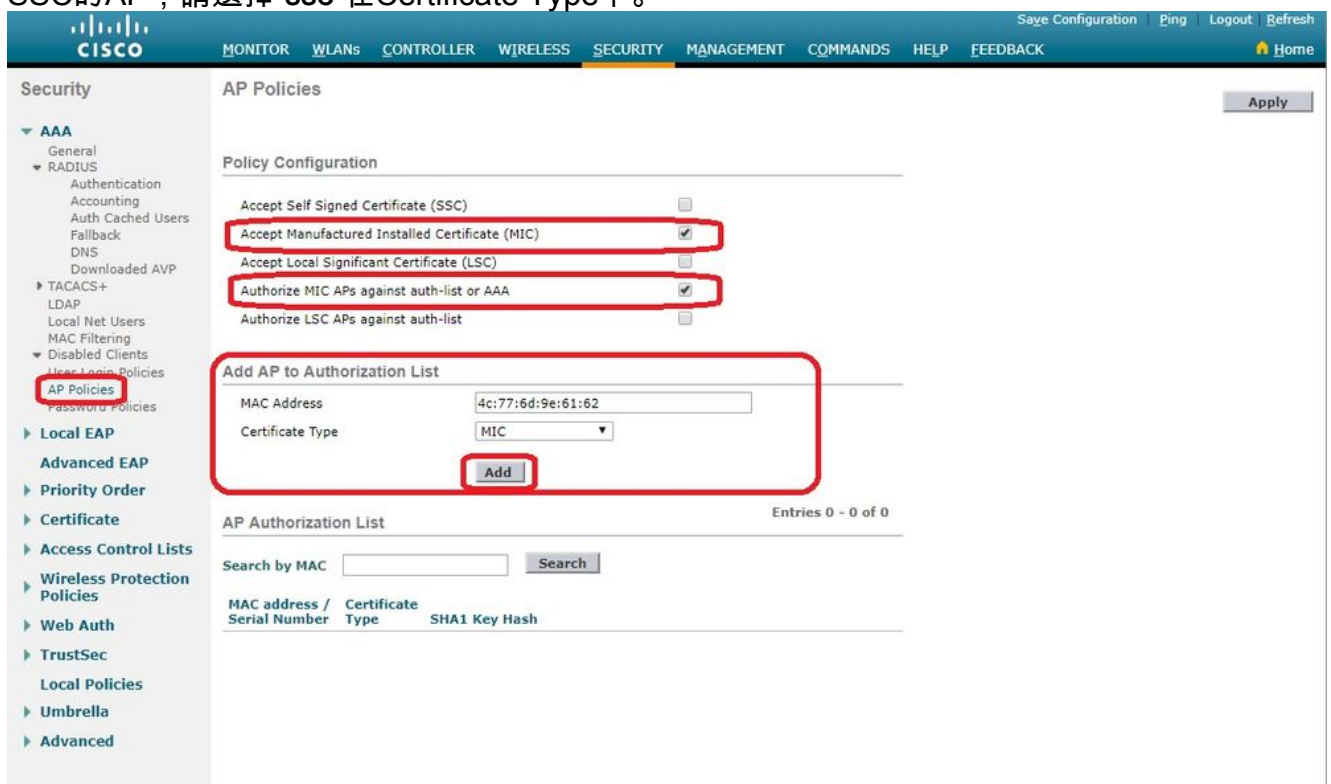
在WLC上，使用AP授權清單根據其MAC地址限制AP。AP授權清單位於 **Security > AP Policies** 在WLC GUI中。

此示例說明如何新增具有MAC地址的AP 4c:77:6d:9e:61:62。

1. 在WLC控制器GUI上，按一下 **Security > AP Policies** 並顯示AP策略頁面。
2. 按一下 **Add** 螢幕右側的按鈕。



3. 在 Add AP to Authorization List，請輸入 AP MAC 地址（不是AP無線電mac地址）。然後，選擇證書型別，然後按一下 Add.在此範例中，新增了一個具有MIC憑證的AP。附註：對於具有SSC的AP，請選擇 ssc 在Certificate Type下。



該AP將新增到AP授權清單中，並列在 AP Authorization List.

4. 在 Policy Configuration (策略配置) 下，選中 Authorize MIC APs against auth-list or AAA.選擇此引數時，WLC會先檢查本機授權清單。如果AP MAC不存在，它會檢查RADIUS伺服器。

The screenshot shows the Cisco Security configuration interface. The left sidebar has 'AP Policies' selected. The main content area shows 'AP Policies' configuration. Under 'Policy Configuration', the checkbox for 'Authorize MIC APs against auth-list or AAA' is checked. Below this is the 'AP Authorization List' table with 5 entries. The 'Apply' button is highlighted in the top right corner.

MAC address / Serial Number	Certificate Type	SHA1 Key Hash
4c:77:6d:9e:61:62	MIC	
70:d3:79:26:39:68	MIC	
88:f0:31:7e:e0:38	MIC	
f4:db:e6:43:c4:b2	MIC	
fc:5b:39:e7:2b:30	MIC	

## 驗證

為了驗證此配置，您需要使用MAC地址連線AP 4c:77:6d:9e:61:62 到網路和顯示器。使用 `debug capwap events/errors enable` 和 `debug aaa all enable` 命令。

此輸出顯示了當AP MAC地址不在AP授權清單中時的調試：

**附註：**由於空間限制，輸出中的某些行已移動到第二行。

```
(Cisco Controller) >debug capwap events enable
(Cisco Controller) >debug capwap errors enable
(Cisco Controller) >debug aaa all enable
```

```
*spamApTask4: Feb 27 10:15:25.592: 70:69:5a:51:4e:c0 Join Request from 192.168.79.151:5256
```

```
*spamApTask4: Feb 27 10:15:25.592: 70:69:5a:51:4e:c0 Unable to get Ap mode in Join request
```

```
*spamApTask4: Feb 27 10:15:25.592: 70:69:5a:51:4e:c0 Allocate database entry for AP
192.168.79.151:5256, already allocated index 277
```

```
*spamApTask4: Feb 27 10:15:25.592: 70:69:5a:51:4e:c0 AP Allocate request at index 277 (reserved)
```

```
*spamApTask4: Feb 27 10:15:25.593: 24:7e:12:19:41:ef Deleting AP entry 192.168.79.151:5256 from
temporary database.
```

```
*spamApTask4: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 AP group received default-group is found in
ap group configured in wlc.
```

```
*spamApTask4: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Dropping request or response packet to AP
:192.168.79.151 (5256) by Controller: 10.48.71.20 (5246), message Capwap_wtp_event_response,
state Capwap_no_state
```

```
*spamApTask4: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 In AAA state 'Idle' for AP
70:69:5a:51:4e:c0
```

```
*spamApTask4: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Join Request failed!
```

\*spamApTask4: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 State machine handler: Failed to process msg type = 3 state = 0 from 192.168.79.151:5256

\*aaaQueueReader: Feb 27 10:15:25.593: **Unable to find requested user entry for 4c776d9e6162**

\*aaaQueueReader: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Normal Response code for AAA Authentication : -9

\*aaaQueueReader: Feb 27 10:15:25.593: ReProcessAuthentication previous proto 8, next proto 40000001

\*aaaQueueReader: Feb 27 10:15:25.593: AuthenticationRequest: 0x7f01b4083638

\*aaaQueueReader: Feb 27 10:15:25.593: Callback.....0xd6cef02166

\*aaaQueueReader: Feb 27 10:15:25.593: protocolType.....0x40000001

\*aaaQueueReader: Feb 27 10:15:25.593: proxyState.....70:69:5A:51:4E:C0-00:00

\*aaaQueueReader: Feb 27 10:15:25.593: Packet contains 9 AVPs:

\*aaaQueueReader: Feb 27 10:15:25.593: AVP[01] User-Name.....4c776d9e6162 (12 bytes)

\*aaaQueueReader: Feb 27 10:15:25.593: AVP[02] Called-Station-Id.....70-69-5a-51-4e-c0 (17 bytes)

\*aaaQueueReader: Feb 27 10:15:25.593: AVP[03] Calling-Station-Id.....4c-77-6d-9e-61-62 (17 bytes)

\*aaaQueueReader: Feb 27 10:15:25.593: AVP[04] Nas-Port.....0x00000001 (1) (4 bytes)

\*aaaQueueReader: Feb 27 10:15:25.593: AVP[05] Nas-Ip-Address.....0x0a304714 (170936084) (4 bytes)

\*aaaQueueReader: Feb 27 10:15:25.593: AVP[06] NAS-Identifier.....0x6e6f (28271) (2 bytes)

\*aaaQueueReader: Feb 27 10:15:25.593: AVP[07] User-Password.....[...]

\*aaaQueueReader: Feb 27 10:15:25.593: AVP[08] Service-Type.....0x0000000a (10) (4 bytes)

\*aaaQueueReader: Feb 27 10:15:25.593: AVP[09] Message-Authenticator.....DATA (16 bytes)

\*aaaQueueReader: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Error Response code for AAA Authentication : -7

\*aaaQueueReader: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Returning AAA Error 'No Server' (-7) for mobile 70:69:5a:51:4e:c0 serverIdx 0

\*aaaQueueReader: Feb 27 10:15:25.593: AuthorizationResponse: 0x7f017adf5770

\*aaaQueueReader: Feb 27 10:15:25.593: RadiusIndexSet(0), Index(0)

\*aaaQueueReader: Feb 27 10:15:25.593: resultCode.....-7

\*aaaQueueReader: Feb 27 10:15:25.593: protocolUsed.....0xffffffff

\*aaaQueueReader: Feb 27 10:15:25.593: proxyState.....70:69:5A:51:4E:C0-00:00

\*aaaQueueReader: Feb 27 10:15:25.593: Packet contains 0 AVPs:

\*aaaQueueReader: Feb 27 10:15:25.593: **70:69:5a:51:4e:c0 User entry not found in the Local FileDB for the client.**

```

*spamApTask0: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Join Version: = 134770432
*spamApTask0: Feb 27 10:15:25.593: 00:00:00:00:00:00 apType = 54 apModel: AIR-AP4800-E-K
*spamApTask0: Feb 27 10:15:25.593: 00:00:00:00:00:00 apType: Ox36 bundleApImageVer: 8.8.111.0
*spamApTask0: Feb 27 10:15:25.593: 00:00:00:00:00:00 version:8 release:8 maint:111 build:0
*spamApTask0: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Join resp: CAPWAP Maximum Msg element len =
79
*spamApTask0: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Join Failure Response sent to 0.0.0.0:5256
*spamApTask0: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Radius Authentication failed. Closing dtls
Connection.
*spamApTask0: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Disconnecting DTLS Capwap-Ctrl session
0xd6f0724fd8 for AP (192.168.79.151/5256). Notify(true)
*spamApTask0: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 CAPWAP State: Dtls tear down
*spamApTask0: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 acDtlsPlumbControlPlaneKeys:
lrad:192.168.79.151(5256) mwar:10.48.71.20(5246)
*spamApTask0: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 DTLS keys for Control Plane deleted
successfully for AP 192.168.79.151
*spamApTask4: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 DTLS connection closed event receivedserver
(10.48.71.20/5246) client (192.168.79.151/5256)
*spamApTask4: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Entry exists for AP (192.168.79.151/5256)
*spamApTask0: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 AP Delete request
*spamApTask4: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 AP Delete request
*spamApTask4: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 Unable to find AP 70:69:5a:51:4e:c0
*spamApTask4: Feb 27 10:15:25.593: 70:69:5a:51:4e:c0 No AP entry exist in temporary database for
192.168.79.151:5256

```

此輸出顯示了將LAP MAC地址新增到AP授權清單時的調試：

**附註：**由於空間限制，輸出中的某些行已移動到第二行。

```

(Cisco Controller) >debug capwap events enable
(Cisco Controller) >debug capwap errors enable
(Cisco Controller) >debug aaa all enable

*spamApTask4: Feb 27 09:50:25.393: 70:69:5a:51:4e:c0 Join Request from 192.168.79.151:5256
*spamApTask4: Feb 27 09:50:25.393: 70:69:5a:51:4e:c0 using already alloced index 274
*spamApTask4: Feb 27 09:50:25.393: 70:69:5a:51:4e:c0 Unable to get Ap mode in Join request
*spamApTask4: Feb 27 09:50:25.393: 70:69:5a:51:4e:c0 Allocate database entry for AP
192.168.79.151:5256, already allocated index 274
*spamApTask4: Feb 27 09:50:25.393: 70:69:5a:51:4e:c0 AP Allocate request at index 274 (reserved)
*spamApTask4: Feb 27 09:50:25.393: 24:7e:12:19:41:ef Deleting AP entry 192.168.79.151:5256 from
temporary database.
*spamApTask4: Feb 27 09:50:25.393: 70:69:5a:51:4e:c0 AP group received default-group is found in
ap group configured in wlc.
*spamApTask4: Feb 27 09:50:25.393: 70:69:5a:51:4e:c0 Dropping request or response packet to AP
:192.168.79.151 (5256) by Controller: 10.48.71.20 (5246), message Capwap_wtp_event_response,
state Capwap_no_state
*spamApTask4: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 Message type Capwap_wtp_event_response is
not allowed to send in state Capwap_no_state for AP 192.168.79.151

```

```

*spamApTask4: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 In AAA state 'Idle' for AP
70:69:5a:51:4e:c0
*spamApTask4: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 Join Request failed!

*aaaQueueReader: Feb 27 09:50:25.394: User 4c776d9e6162 authenticated
*aaaQueueReader: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 Normal Response code for AAA
Authentication : 0
*aaaQueueReader: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 Returning AAA Success for mobile
70:69:5a:51:4e:c0
*aaaQueueReader: Feb 27 09:50:25.394: AuthorizationResponse: 0x7f0288a66408

*aaaQueueReader: Feb 27 09:50:25.394: structureSize.....194
*aaaQueueReader: Feb 27 09:50:25.394: resultCode.....0
*aaaQueueReader: Feb 27 09:50:25.394:
proxyState.....70:69:5A:51:4E:C0-00:00
*aaaQueueReader: Feb 27 09:50:25.394: Packet contains 2 AVPs:
*aaaQueueReader: Feb 27 09:50:25.394: AVP[01] Service-
Type.....0x00000065 (101) (4 bytes)
*aaaQueueReader: Feb 27 09:50:25.394: AVP[02] Airespace / WLAN-
Identifier.....0x00000000 (0) (4 bytes)
*aaaQueueReader: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 User authentication Success with File DB
on WLAN ID :0
*spamApTask0: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 Join Version: = 134770432
*spamApTask0: Feb 27 09:50:25.394: 00:00:00:00:00:00 apType = 54 apModel: AIR-AP4800-E-K
*spamApTask0: Feb 27 09:50:25.394: 00:00:00:00:00:00 apType: 0x36 bundleApImageVer: 8.8.111.0
*spamApTask0: Feb 27 09:50:25.394: 00:00:00:00:00:00 version:8 release:8 maint:111 build:0
*spamApTask0: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 Join resp: CAPWAP Maximum Msg element len =
79
*spamApTask0: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 Join Response sent to 0.0.0.0:5256
*spamApTask0: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 CAPWAP State: Join
*spamApTask0: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 capwap_ac_platform.c:2095 - Operation State
0 ==> 4
*spamApTask0: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 Capwap State Change Event (Reg) from
capwap_ac_platform.c 2136

*apfReceiveTask: Feb 27 09:50:25.394: 70:69:5a:51:4e:c0 Register LWAPP event for AP
70:69:5a:51:4e:c0 slot 0

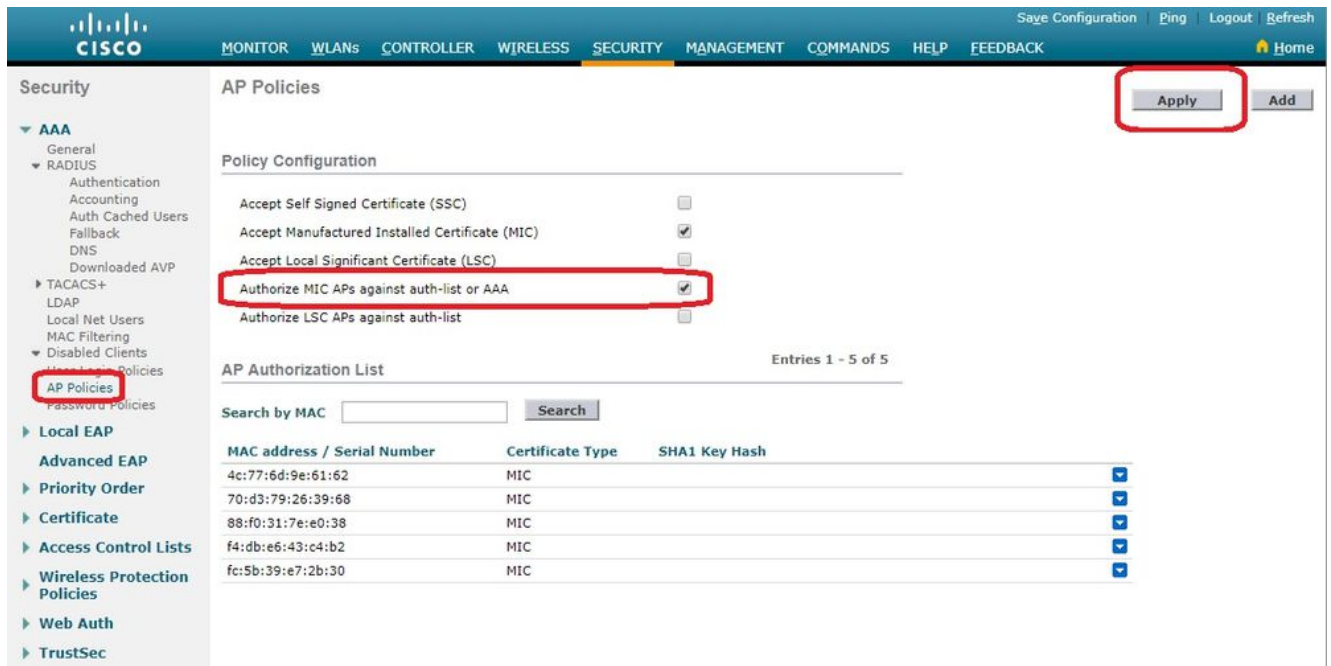
```

## 針對AAA伺服器的AP授權

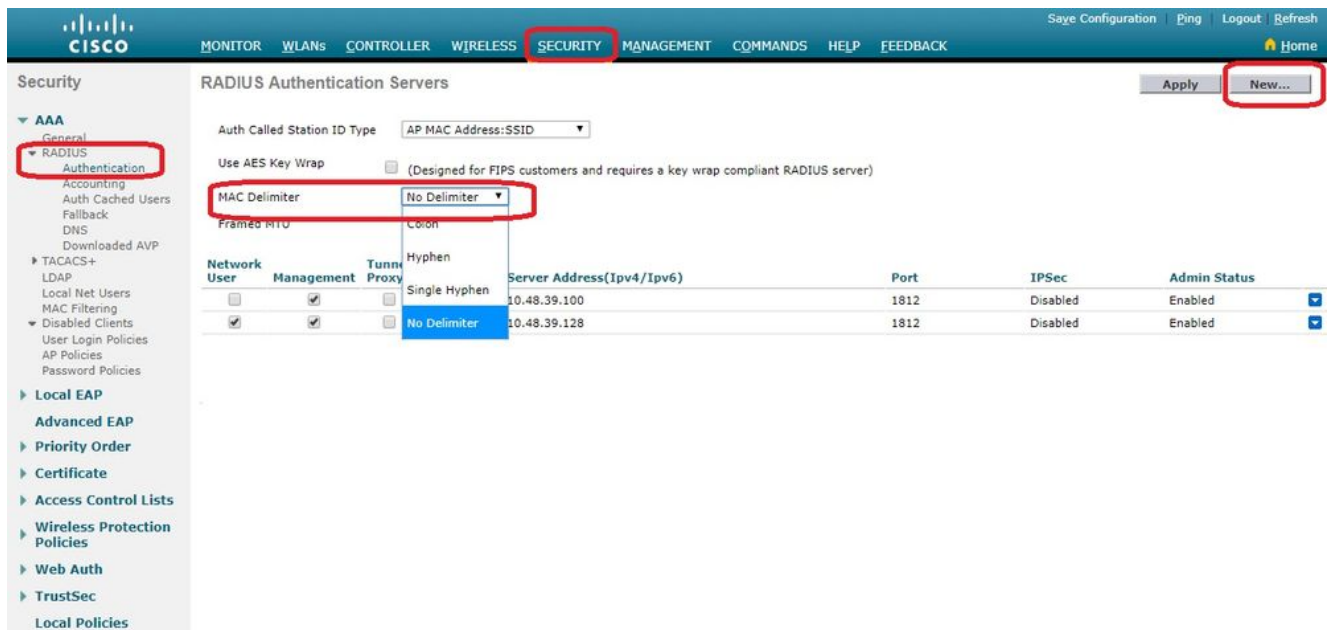
您還可以將WLC配置為使用RADIUS伺服器授權使用MIC的AP。將資訊傳送到RADIUS伺服器時，WLC會使用AP MAC位址作為使用者名稱和密碼。例如，如果AP的MAC地址是 **4c:77:6d:9e:61:62**中，控制器用於授權AP的使用者名稱和密碼都是使用定義的傳遞器的mac地址。

此示例說明如何配置WLC以使用Cisco ISE授權AP。

1. 在WLC控制器GUI上，按一下 **Security > AP Policies**.系統將顯示AP Policies頁面。
2. 在Policy Configuration ( 策略配置 ) 下，選中 **Authorize MIC APs against auth-list or AAA**.選擇此引數時，WLC會先檢查本機授權清單。如果AP MAC不存在，它會檢查RADIUS伺服器。

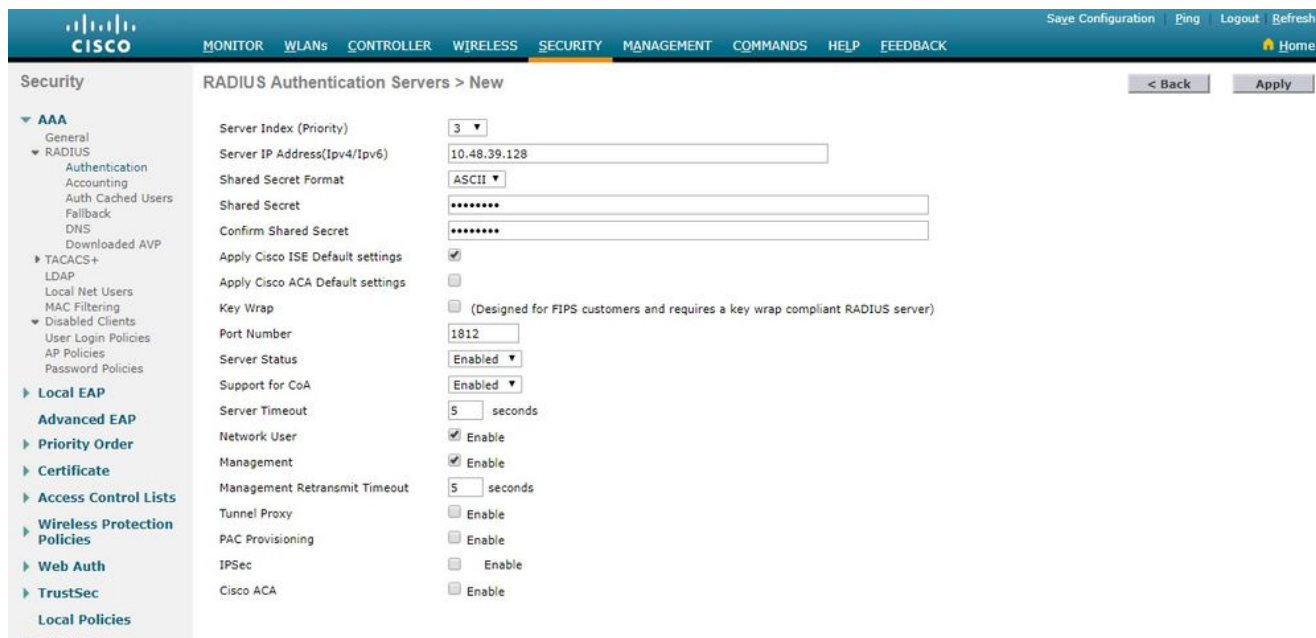


3. 導航至 **Security > RADIUS Authentication** 從控制器GUI顯示 RADIUS Authentication Servers 頁面。在此頁面中，您可以定義MAC分隔符。WLC會取得AP Mac位址，並使用此處定義的分隔符將其傳送到Radius伺服器。這很重要，因為使用者名稱會與Radius伺服器中設定的相符。在本示例中，**No Delimiter** 用於使使用者名稱 **4c776d9e6162**。



4. 然後，按一下 **New** 以便定義RADIUS伺服器。





5. 在上定義RADIUS伺服器引數 **RADIUS Authentication Servers > New** 頁面。這些引數包括 RADIUS Server IP Address 中， Shared Secret 中， Port Number, 和 Server Status. 完成後，按一下 Apply. 此示例使用Cisco ISE作為IP地址為10.48.39.128的RADIUS伺服器。

## 配置Cisco ISE以授權AP

要啟用思科ISE授權AP，您需要完成以下步驟：

1. 將WLC配置為Cisco ISE上的AAA客戶端。
2. 將AP MAC地址新增到思科ISE上的資料庫。

但是，您可以將AP MAC地址新增為終端（最佳方法）或使用者（其密碼也是MAC地址），但這要求您降低密碼安全策略要求。

由於WLC不傳送NAS-Port-Type屬性(該屬性是ISE匹配Mac地址身份驗證(MAB)工作流程的要求)，因此需要對其進行調整。

## 配置MAB不需要NAS埠型別屬性的新裝置配置檔案

導航至 **Administration > Network device profile** 並建立新的裝置配置檔案。啟用RADIUS並將有線MAB流設定為需要service-type=Call-check，如圖所示。您可以從傳統思科配置檔案複製其他設定，但我們的想法是不需要「Nas-port-type」屬性來實現有線MAB工作流程。

\* Name  

Description

Icon    

Vendor  

### Supported Protocols

- RADIUS
- TACACS+
- TrustSec

RADIUS Dictionaries

### Templates

[Expand All](#) / [Collapse All](#)

#### Authentication/Authorization

#### Flow Type Conditions

Wired MAB detected if the following condition(s) are met :

   =    

## 將WLC配置為Cisco ISE上的AAA客戶端

1. 轉到 **Administration > Network Resources > Network Devices > Add**.系統將顯示New Network Device頁面。
2. 在此頁面上，定義WLC Name，管理介面 IP Address 和 Radius Authentications Settings 喜歡 Shared Secret.如果您計畫輸入AP MAC地址作為終端，請確保使用之前配置的自定義裝置配置檔案，而不是預設的Cisco配置檔案！

The screenshot displays the Cisco Identity Services Engine (ISE) configuration interface for a Network Device. The breadcrumb navigation path is: Administration > Work Centers > Identity Management > Network Resources > Device Portal Management > pxGrid Services > Feed Service > Threat Centric NAC > Network Devices. The main configuration area includes:

- Name:** WLC5520
- Description:** (empty field)
- IP Address:** 10.48.71.20 / 32
- Device Profile:** Cisco
- Model Name:** (empty field)
- Software Version:** (empty field)
- Network Device Group:** LAB, No IPSEC, WLC-lab
- RADIUS Authentication Settings:**
  - Protocol: RADIUS
  - Shared Secret: (masked with dots)
  - CoA Port: 1700
  - DTLS Required: (unchecked)
  - Shared Secret: radius/dtls

3. 按一下 **Submit**.

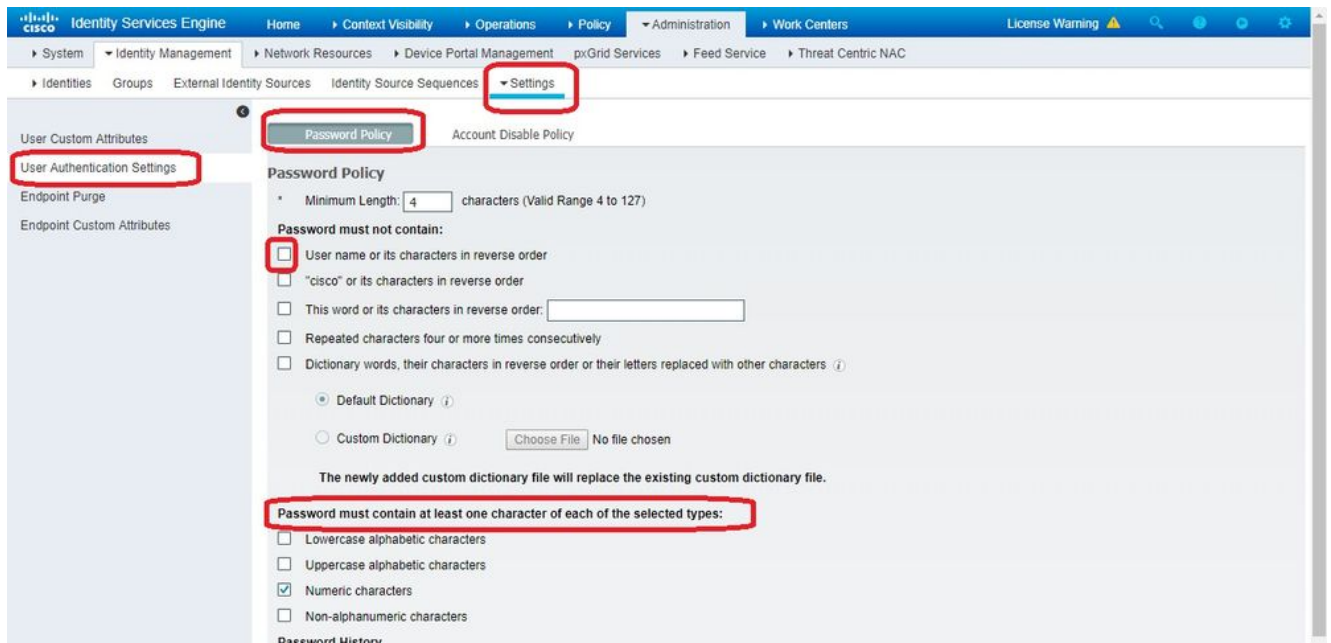
## 將AP MAC地址新增到思科ISE上的終端資料庫

導航至 **Administration > Identity Management > Identities** 並將MAC地址新增到終端資料庫。

## 將AP MAC地址新增到思科ISE上的使用者資料庫 ( 可選 )

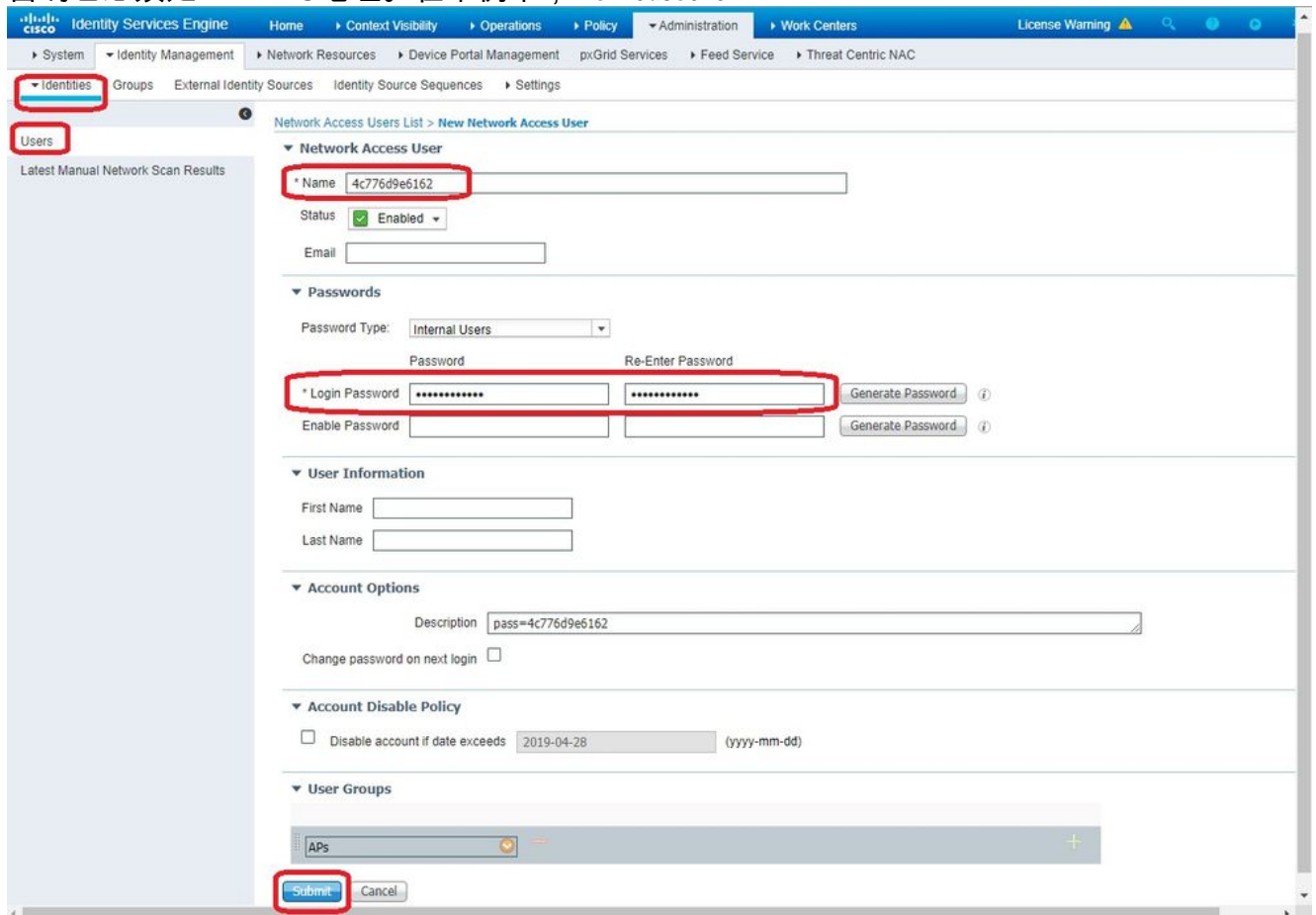
如果您不想修改有線MAB配置檔案並選擇將AP MAC地址作為使用者放置，則必須降低密碼策略要求。

1. 導航至 **Administration > Identity Management**. 在這裡，我們需要確保密碼策略允許將使用者名稱用作密碼，並且策略還必須允許使用mac地址字元，而不再需要不同型別的字元。導航至 **Settings > User Authentication Settings > Password Policy**:



2. 然後導航至 **Identities > Users** 然後按一下 **Add** 顯示「使用者設定」頁面時，定義此AP的使用者名稱和密碼，如下所示。

**提示：**使用 **Description** 用於輸入密碼的欄位，以便以後輕鬆了解密碼的定義是什麼。密碼也必須是AP MAC地址。在本例中，**4c776d9e6162**。

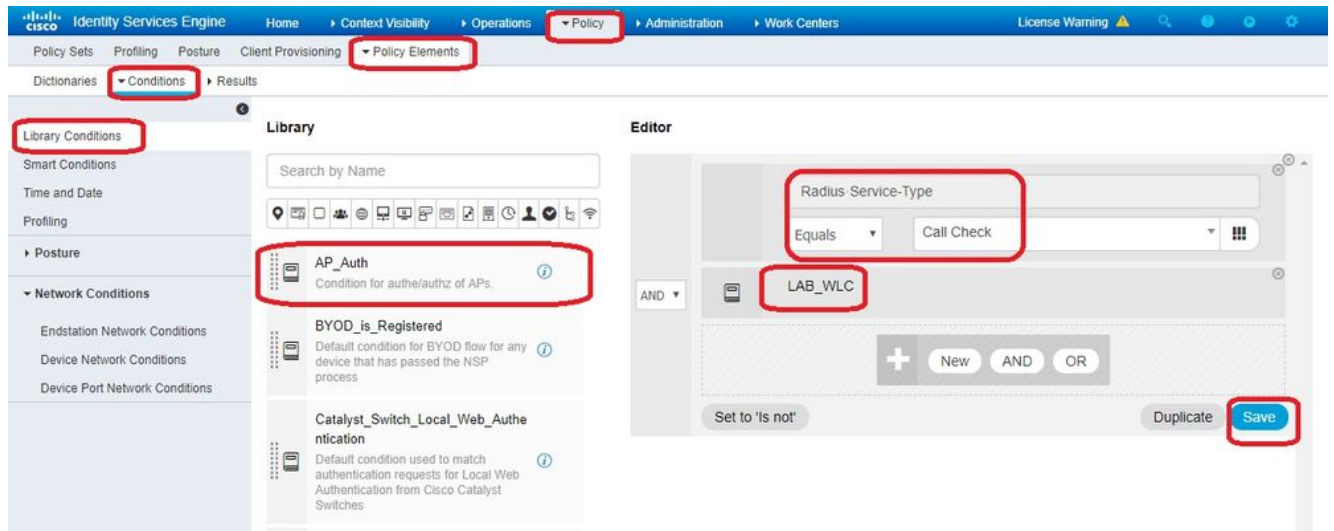


3. 按一下 **Submit**.

## 定義策略集

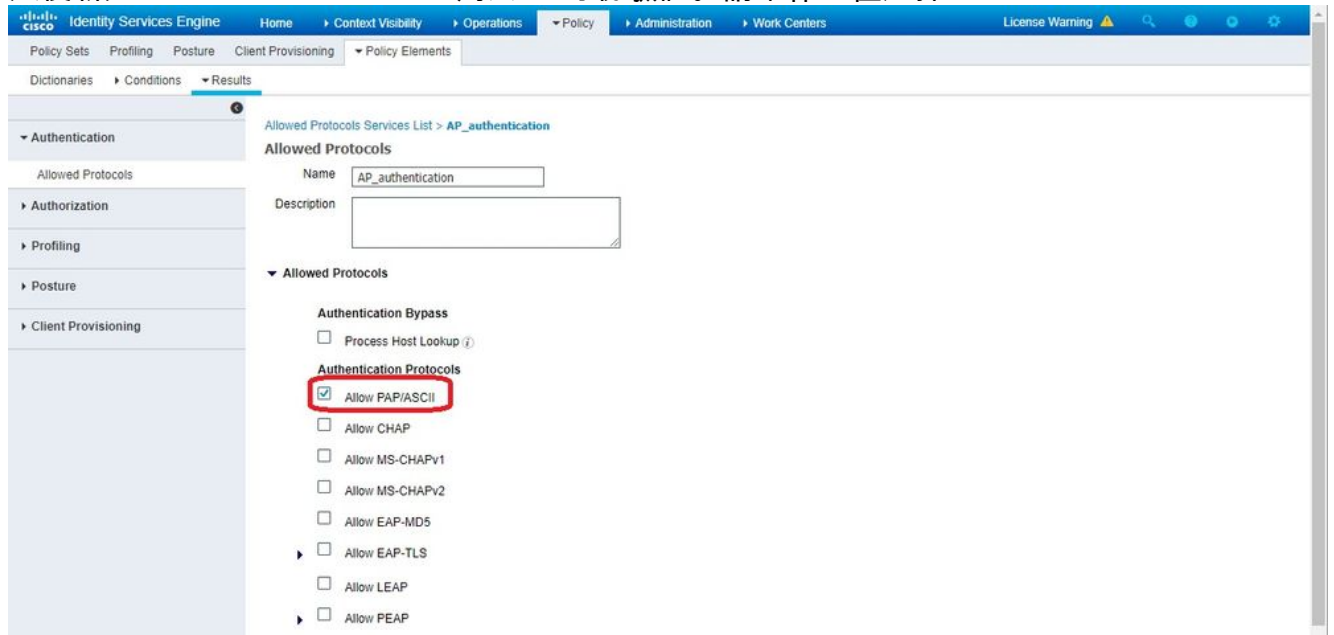
1. 您需要定義 **Policy Set** 以匹配來自WLC的驗證請求。首先，通過導航到 **Policy > Policy Elements > Conditions**，並建立新的條件以匹配WLC位置，在本例中為「

LAB\_WLC」和 Radius:Service-Type Equals Call Check 用於Mac身份驗證。此處的條件名為「AP\_Auth」。

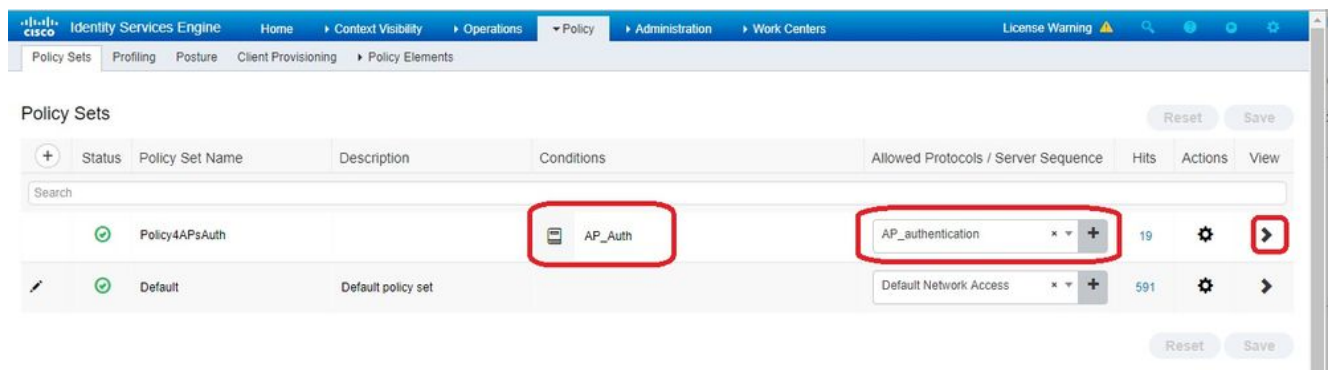


2. 按一下 **Save**.

3. 然後新建 **Allowed Protocols Service** 用於AP身份驗證。請確保您僅選擇 **Allow PAP/ASCII**:



4. 在 **Allowed Protocols/Server Sequence** 展開 **View** 和 **Authentication Policy > Use > Internal Users** 以便ISE在內部資料庫中搜尋AP的使用者名稱/密碼。



The screenshot shows the Cisco ISE Policy Sets configuration interface. At the top, there are navigation tabs for Home, Context Visibility, Operations, Policy, Administration, and Work Centers. Below the navigation, there are buttons for 'Reset' and 'Save'. The main content area displays a table of Policy Sets. The first row is highlighted, showing 'Policy4APsAuth' with a status of 'On', a description of 'AP\_Auth', and 'AP\_authentication' in the 'Allowed Protocols / Server Sequence' column. Below this, the configuration for the 'Authentication Policy' is shown, including a 'Default' rule with a status of 'On' and 'Internal Users' in the 'Allowed Protocols / Server Sequence' column. The 'Save' button at the bottom right is highlighted with a red box.

5. 按一下 **Save**.

## 驗證

為了驗證此配置，您需要將MAC地址為4c:77:6d:9e:61:62的AP連線到網路和監視器。使用 `debug capwap events/errors enable` 和 `debug aaa all enable` 命令。

從調試中可看出，WLC將AP MAC地址傳遞到RADIUS伺服器10.48.39.128，並且伺服器已成功驗證AP。然後AP向控制器註冊。

**附註：**由於空間限制，輸出中的某些行已移動到第二行。

```
*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 Join Request from 192.168.79.151:5248
*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 using already alloted index 437
*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 Unable to get Ap mode in Join request
*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 Allocate database entry for AP
192.168.79.151:5248, already allocated index 437
*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 AP Allocate request at index 437 (reserved)
*spamApTask4: Feb 27 14:58:07.566: 24:7e:12:19:41:ef Deleting AP entry 192.168.79.151:5248 from
temporary database.
*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 AP group received default-group is found in
ap group configured in wlc.
*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 Dropping request or response packet to AP
:192.168.79.151 (5248) by Controller: 10.48.71.20 (5246), message Capwap_wtp_event_response,
state Capwap_no_state
*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 Message type Capwap_wtp_event_response is
not allowed to send in state Capwap_no_state for AP 192.168.79.151
*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 In AAA state 'Idle' for AP
```

70:69:5a:51:4e:c0

\*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 Join Request failed!

\*spamApTask4: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 State machine handler: Failed to process msg type = 3 state = 0 from 192.168.79.151:5248

\*spamApTask4: Feb 27 14:58:07.566: 24:7e:12:19:41:ef Failed to parse CAPWAP packet from 192.168.79.151:5248

\*aaaQueueReader: Feb 27 14:58:07.566: **70:69:5a:51:4e:c0 Normal Response code for AAA Authentication : -9**

\*aaaQueueReader: Feb 27 14:58:07.566: ReProcessAuthentication previous proto 8, next proto 40000001

\*aaaQueueReader: Feb 27 14:58:07.566: AuthenticationRequest: 0x7f01b404f0f8

\*aaaQueueReader: Feb 27 14:58:07.566: Callback.....0xd6cef02166

\*aaaQueueReader: Feb 27 14:58:07.566: protocolType.....0x40000001

\*aaaQueueReader: Feb 27 14:58:07.566: proxyState.....70:69:5A:51:4E:C0-00:00

\*aaaQueueReader: Feb 27 14:58:07.566: Packet contains 9 AVPs:

\*aaaQueueReader: Feb 27 14:58:07.566: AVP[02] Called-Station-Id.....70:69:5a:51:4e:c0 (17 bytes)

\*aaaQueueReader: Feb 27 14:58:07.566: AVP[03] Calling-Station-Id.....4c:77:6d:9e:61:62 (17 bytes)

\*aaaQueueReader: Feb 27 14:58:07.566: AVP[04] Nas-Port.....0x00000001 (1) (4 bytes)

\*aaaQueueReader: Feb 27 14:58:07.566: AVP[05] Nas-Ip-Address.....0x0a304714 (170936084) (4 bytes)

\*aaaQueueReader: Feb 27 14:58:07.566: AVP[06] NAS-Identifier.....0x6e6f (28271) (2 bytes)

\*aaaQueueReader: Feb 27 14:58:07.566: AVP[08] Service-Type.....0x0000000a (10) (4 bytes)

\*aaaQueueReader: Feb 27 14:58:07.566: AVP[09] Message-Authenticator.....DATA (16 bytes)

\*aaaQueueReader: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 radiusServerFallbackPassiveStateUpdate: **RADIUS server is ready 10.48.39.128 port 1812 index 1 active 1**

\*aaaQueueReader: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 NAI-Realm not enabled on Wlan, radius servers will be selected as usual

\*aaaQueueReader: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 Found the radius server : 10.48.39.128 from the global server list

\*aaaQueueReader: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 Send Radius Auth Request with pktId:185 into qid:0 of server at index:1

\*aaaQueueReader: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 Sending the packet to v4 host 10.48.39.128:1812 of length 130

\*aaaQueueReader: Feb 27 14:58:07.566: 70:69:5a:51:4e:c0 **Successful transmission of Authentication Packet (pktId 185) to 10.48.39.128:1812** from server queue 0, proxy state 70:69:5a:51:4e:c0-00:00

\*aaaQueueReader: Feb 27 14:58:07.566: 00000000: 01 b9 00 82 d9 c2 ef 27 f1 bb e4 9f a8 88 5a 6d ..... '.....Zm

\*aaaQueueReader: Feb 27 14:58:07.566: 00000010: 4b 38 1a a6 01 0e 34 63 37 37 36 64 39 65 36 31 K8...4c776d9e61

\*aaaQueueReader: Feb 27 14:58:07.566: 00000020: 36 32 1e 13 37 30 3a 36 39 3a 35 61 3a 35 31 3a

62..70:69:5a:51:  
\*aaaQueueReader: Feb 27 14:58:07.566: 00000030: 34 65 3a 63 30 1f 13 34 63 3a 37 37 3a 36 64 3a  
4e:c0..4c:77:6d:  
\*aaaQueueReader: Feb 27 14:58:07.566: 00000040: 39 65 3a 36 31 3a 36 32 05 06 00 00 01 04 06  
9e:61:62.....  
\*aaaQueueReader: Feb 27 14:58:07.566: 00000050: 0a 30 47 14 20 04 6e 6f 02 12 54 46 96 61 2a 38  
.OG...no..TF.a\*8  
\*aaaQueueReader: Feb 27 14:58:07.566: 00000060: 5a 57 22 5b 41 c8 13 61 97 6c 06 06 00 00 0a  
ZW"[A..a.l.....  
\*aaaQueueReader: Feb 27 14:58:07.566: 00000080: 15 f9 ..  
\*aaaQueueReader: Feb 27 14:58:07.566: **70:69:5a:51:4e:c0 User entry not found in the Local FileDB  
for the client.**  
\*radiusTransportThread: Feb 27 14:58:07.587: Vendor Specif Radius Attribute(code=26, avp\_len=28,  
vId=9)  
\*radiusTransportThread: Feb 27 14:58:07.588: 70:69:5a:51:4e:c0 \*\*\* Counted VSA 150994944 AVP of  
length 28, code 1 atrlen 22)  
\*radiusTransportThread: Feb 27 14:58:07.588: Vendor Specif Radius Attribute(code=26, avp\_len=28,  
vId=9)  
\*radiusTransportThread: Feb 27 14:58:07.588: 70:69:5a:51:4e:c0 AVP: VendorId: 9, vendorType: 1,  
vendorLen: 22  
  
\*radiusTransportThread: Feb 27 14:58:07.588: 00000000: 70 72 6f 66 69 6c 65 2d 6e 61 6d 65 3d 55  
6e 6b profile-name=Unk  
\*radiusTransportThread: Feb 27 14:58:07.588: 00000010: 6e 6f 77 6e nown  
\*radiusTransportThread: Feb 27 14:58:07.588: 70:69:5a:51:4e:c0 Processed VSA 9, type 1, raw  
bytes 22, copied 0 bytes  
\*radiusTransportThread: Feb 27 14:58:07.588: **70:69:5a:51:4e:c0 Access-Accept received from  
RADIUS server 10.48.39.128** (qid:0) with port:1812, pktId:185  
\*radiusTransportThread: Feb 27 14:58:07.588: RadiusIndexSet(1), Index(1)  
\*radiusTransportThread: Feb 27 14:58:07.588: structureSize.....432  
  
\*radiusTransportThread: Feb 27 14:58:07.588:  
protocolUsed.....0x00000001  
  
\*radiusTransportThread: Feb 27 14:58:07.588:  
proxyState.....70:69:5a:51:4e:c0-00:00  
  
\*radiusTransportThread: Feb 27 14:58:07.588: Packet contains 4 AVPs:  
  
\*radiusTransportThread: Feb 27 14:58:07.588: **AVP[01] User-  
Name.....4c776d9e6162** (12 bytes)  
  
\*radiusTransportThread: Feb 27 14:58:07.588: AVP[02]  
State.....ReauthSession:0a302780bNEx79SKIFosJ2ioAmIYN0iRe2iDSY3dr  
cFsHuYpChs (65 bytes)  
  
\*radiusTransportThread: Feb 27 14:58:07.588: AVP[03]  
Class.....DATA (83 bytes)  
  
\*radiusTransportThread: Feb 27 14:58:07.588: AVP[04] Message-  
Authenticator.....DATA (16 bytes)  
  
\*spamApTask0: Feb 27 14:58:07.588: 70:69:5a:51:4e:c0 Join Version: = 134770432  
  
\*spamApTask0: Feb 27 14:58:07.588: 00:00:00:00:00:00 apType = 54 apModel: AIR-AP4800-E-K  
  
\*spamApTask0: Feb 27 14:58:07.588: 00:00:00:00:00:00 apType: 0x36 bundleApImageVer: 8.8.111.0  
\*spamApTask0: Feb 27 14:58:07.588: 00:00:00:00:00:00 version:8 release:8 maint:111 build:0  
\*spamApTask0: Feb 27 14:58:07.588: 70:69:5a:51:4e:c0 Join resp: CAPWAP Maximum Msg element len =  
79  
  
\*spamApTask0: Feb 27 14:58:07.588: 70:69:5a:51:4e:c0 Join Response sent to 0.0.0.0:5248  
  
\*spamApTask0: Feb 27 14:58:07.588: **70:69:5a:51:4e:c0 CAPWAP State: Join**



# 疑難排解

使用以下命令對組態進行疑難排解：

- debug capwap events enable — 配置LWAPP事件的調試
- debug capwap packet enable — 配置LWAPP資料包跟蹤的調試
- debug capwap errors enable — 配置LWAPP資料包錯誤的調試
- debug aaa all enable — 配置所有AAA消息的調試

如果RADIUS即時中的ISE報告在您對ISE授權AP時記錄使用者名稱「INVALID」，這意味著身份驗證正在針對終端資料庫進行驗證，並且您未按照本文檔中的說明修改有線MAB配置檔案。如果MAC地址身份驗證與有線/無線MAB配置檔案不匹配，則ISE認為MAC地址身份驗證無效，該配置檔案預設需要WLC未傳送的NAS埠型別屬性。

## 關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。