

CUCM PLAR配置示例

目錄

[簡介:](#)

[需求](#)

[採用元件](#)

[配置步驟](#)

[SCCP PLAR配置](#)

[SIP PLAR配置](#)

[驗證](#)

簡介:

本文探討如何使用Cisco Unified Communications Manager(CUCM)為專用線路自動振鈴(PLAR)或熱撥號配置Cisco IP電話。

PLAR功能的設計目的是，一旦電話在特定線路上摘機，它就會撥打預配置的號碼。

作者：Cisco TAC工程師Jose Villalobos。

由Cisco TAC工程師Luis Ramirez編輯。

需求

思科建議您瞭解以下主題：

- 思科整合通訊管理員(CUCM)
- 呼叫搜尋空間(CSS)
- 分割槽(PT)
- 轉換模式
- 作業階段啟始通訊協定(SIP)撥號規則

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- CUCM 10.5
- 瘦客戶端控制協定(SCCP)和SIP電話向CUCM註冊

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。如果您的網路處於活動狀態，請確保您瞭解任何更改的潛在影響。

相關產品

本文件也適用於以下硬體和軟體版本：

- CUCM 8.X/9.X/11.X

配置步驟

SCCP PLAR配置

為了在IP電話摘機時允許電話自動撥打預配置的電話號碼，CSS配置了一個分割槽，該分割槽包含帶有空白轉換模式字串的轉換模式。這將導致Cisco Call Manager立即與此模式匹配。然後，轉換模式將被叫號碼（即none）轉換為呼叫傳遞的目標號碼（熱撥號）。

附註：由於為PLAR配置的目錄號碼(DN)在預配置的號碼摘機時撥打該號碼，因此不能使用PLAR DN撥打任何其他號碼。例如，這是酒店大堂的典型配置。

步驟1.為PLAR目標建立分割槽。

導航到**Call Routing> Class Control>Partition**，然後**Add a New Partition**。輸入所需的詳細資訊，然後按一下**插入**

Partition Configuration

Save

Status

i Status: Ready

Partition Information

To enter multiple partitions, use one line for each partition entry. You can enter up to 75 partitions; the names and descriptions can have up to a total of 1475 characters. The partition name cannot exceed 50 characters. Use a comma (',') to separate the partition name and description on each line. If a description is not entered, Cisco Unified Communications Manager uses the partition name as the description. For example:

```
<< partitionName >> , << description >>
CiscoPartition, Cisco employee partition
DallasPartition
```

Name*




Save

步驟2.建立新的CSS


導覽至**呼叫路由>類別控制> 呼叫搜尋空間** 然後按一下 **新增新的呼叫搜尋空間**。

System ▾ Call Routing ▾ Media Resources ▾ Advanced Features ▾ Device ▾ Application ▾ User Management

Calling Search Space Configuration

Save  Delete  Copy  Add New

Status

 Status: Ready

Calling Search Space Information

Name*

Description

Route Partitions for this Calling Search Space

Available Partitions**
Global Learned E164 Numbers
Global Learned E164 Patterns
Global Learned Enterprise Numbers
Global Learned Enterprise Patterns


Selected Partitions

步驟3. 建立轉換模式。

導覽至 **Call Routing > Translation Pattern**，然後按一下 **Add a New Translation Pattern**。選擇先前在步驟1和步驟2中建立的所需分割槽名稱和CSS。最後，在**被叫方轉換掩碼**下，輸入PLAR目標編號。按一下「**Insert**」。

附註：確保「轉換模式」欄位留空。

Status

 Status: Ready

Pattern Definition

Translation Pattern

Partition

Description

Numbering Plan

Route Filter

MLPP Precedence*

Resource Priority Namespace Network Domain

Route Class*

Calling Search Space

Use Originator's Calling Search Space

External Call Control Profile

Route Option

Route this pattern

Block this pattern

Provide Outside Dial Tone

Urgent Priority

Do Not Wait For Interdigit Timeout On Subsequent Hops

Route Next Hop By Calling Party Number

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation*

Calling Name Presentation*

Calling Party Number Type*

Calling Party Numbering Plan*

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation*

Calling Name Presentation*

Calling Party Number Type*

Calling Party Numbering Plan*

Connected Party Transformations

Connected Line ID Presentation*

Connected Name Presentation*

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

Called Party Number Type*

Called Party Numbering Plan*

附註： 示例後面的設計基於DN 1161。1161是PLAR的目標，但此配置可以確保1161可以從任何其他電話獲得呼叫。

翻譯模式的第一個螢幕截圖中使用的CSS可以訪問目標DN分割槽。

步驟4. 為PLAR電話分配所需的呼叫搜尋空間。

- 導覽至**Device > Phone**
- 按一下「**Find**」可在Cisco Unified Communications Manager中找到所有已註冊的IP電話
- 選擇PLAR電話，然後選擇要進行PLAR的DN

• 將CSS分配到DN for PLAR

Phone Configuration Related Links: Back To Find/List

Save Delete Copy Reset Apply Config Add New

Status: Ready

Association

Modify Button Items

- 1 Line [1] - 1054 (no partition)
- 2 Line [2] - Add a new DN
- 3 Add a new SURF
- 4 Add a new BLF SD
- 5 Add a new SD
- 6 Add a new BLF Directed Call Park
- 7 CallBack
- 8 Call Park
- 9 Call Pickup
- 10 Conference List
- 11 Conference
- 12 Do Not Disturb
- 13 End Call
- 14 Forward All
- 15 Group Call Pickup

Phone Type

Product Type: Cisco 7942
Device Protocol: SCCP

Real-time Device Status

Registration: Registered with Cisco Unified Communications Manager josevil-105
IPv4 Address: 10.201.192.57
Active Load ID: SCCP42.9-4-2-15
Download Status: None

Device Information

Device is Active
 Device is trusted
MAC Address*: 108CCFE06150
Description: Auto 1054
Device Pool*: Default [View Details](#)
Common Device Configuration: < None > [View Details](#)
Phone Button Template*: Universal Device Template Button Layout
Softkey Template: < None >
Common Phone Profile*: Standard Common Phone Profile [View Details](#)
Calling Search Space: < None >

Directory Number Configuration

Save Delete Reset Apply Config Add New

Status: Ready

Directory Number Information

Directory Number*: 1054 Urgent Priority

Route Partition: < None >

Description:

Alerting Name:

ASCII Alerting Name:

External Call Control Profile: < None >

Allow Control of Device from CTI

Associated Devices: SEP108CCFE06150

Dissociate Devices:

Directory Number Settings

Voice Mail Profile: < None > (Choose <None> to use system default)

Calling Search Space: PlarTo1161

BLF Presence Group*: Standard Presence group

User Hold MOH Audio Source: < None >

Network Hold MOH Audio Source: < None >

Auto Answer*: Auto Answer Off

Reject Anonymous Calls

附註：此配置示例在DN 1054到1161上建立一個PLAR，但CSS配置為一個DN級別，這提供了將另一個DN分配給電話上不同按鈕的功能，從而允許從同一IP電話進行正常呼叫而不影響PLAR功能。

SIP PLAR配置

步驟1.建立SIP PLAR撥號規則

- 否導航到**呼叫路由>撥號規則> SIP撥號規則**
- **新增新的。**

Description	Delete Pattern	Dial Parameter	Value	Delete Parameter
1161	<input type="checkbox"/>	Button	2	<input type="checkbox"/>

附註：說明欄位是可選的。

附註：Dial Parameter (撥號引數) 設定為按鈕，以強制PLAR功能只有1個DN裝置。

附註：如果另一個按鈕或IP電話中需要PLAR，則需要建立另一個PLAR規則。

步驟2.將規則分配給SIP電話。

這隻在SIP電話上需要。

Packet Capture Mode* None

Packet Capture Duration 0

BLF Presence Group* Standard Presence group

SIP Dial Rules PlarTo1161

MTP Preferred Originating Codec* 711ulaw

Device Security Profile* Cisco 7942 - Standard SIP Non-Secure Profile

Rerouting Calling Search Space < None >

SUBSCRIBE Calling Search Space < None >

SIP Profile* Standard SIP Profile [View Details](#)

Digest User < None >

Media Termination Point Required

Unattended Port

Require DTMF Reception

驗證

為了驗證配置是否正確執行，請摘機電話。電話自動撥打1161。