

CUCM PLAR配置示例

目录

[前言：](#)

[要求](#)

[使用的组件](#)

[配置步骤](#)

[SCCP PLAR配置](#)

[SIP PLAR配置](#)

[验证](#)

前言：

本文讨论如何配置专用线路自动振铃的(PLAR)与Cisco Unified Communications Manager (CUCM)的Cisco IP电话或Hotdial。

PLAR功能如此设计，当拨号一个预先配置的编号的电话是摘机在特定。

贡献用何塞比利亚洛沃斯， Cisco TAC工程师。

编辑相反拉米雷斯， Cisco TAC工程师。

要求

Cisco 建议您了解以下主题：

- Cisco Unified Communications Manager (CUCM)
- 呼叫Seach空间(CSS)
- 分区(PT)
- 转换模式
- 会话初始化协议(SIP)拨号规则

使用的组件

本文档中的信息基于以下软件和硬件版本：

- CUCM 10.5
- 小型客户机控制协议(SCCP) & SIP电话向CUCM登记

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。如果您的网络实际，请保证您了解所有更改潜在影响。

相关产品

本文档也可用于以下硬件和软件版本：

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

配置步骤

SCCP PLAR配置

为了允许电话自动地拨号一个预先配置的电话号码，当IP电话是摘机时，CSS用包含与一个空白的转换模式字符串的一个转换模式的分区配置。这立即导致Cisco Call Manager匹配此模式。转换模式然后变换被叫号码(即无)到目标号码(Hotdial)呼叫传送的地方。

注意：因为为PLAR配置的目录号(DN)拨号一个预先配置的编号，当是摘机时，您不能使用PLAR DN拨号任何其他号码。例如，这是在旅馆大厅的一个典型配置。

步骤1.克利特PLAR目的地的一个分区。

导航呼叫Routing>中集集团Control>Partition然后添加一个新的分区。输入需要的详细信息然后单击插入键

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

步骤2.创建新的CSS


导航呼叫Routing>中集集团Control>呼叫搜索空间然后单击Add a New Calling Search Space。

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

步骤3.创建转换模式。

导航到Call Routing>转换模式然后单击添加一个新的转换模式。选择在第一步和步骤两以前创建的希望的分区名称和CSS。最后，在被叫方转换掩码下，请输入PLAR目标编号。单击 Insert。

注意：保证转换模式字段是左空白。

Status
i 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*:

注意：在示例后的设计是基本的在DN 1161。1161是PLAR的目标，但是此配置保证1161能从其他电话收到呼叫。

在第一张屏幕画面的CSS用于转换模式访问目标DN分区。

步骤4.为PLAR电话分配希望的呼叫搜索空间。

- 导航对 **Device > Phone**
- 点击**查找**为了找出在Cisco Unified Communications Manager的所有已注册IP电话
- 选择PLAR电话，并且选择DN对PLAR

• 阿辛对DN的CSS PLAR的

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

注意：此配置示例创建在DN 1054到1161的PLAR，但是CSS配置对DN级别，提供能力分配另一个DN给一个不同的按钮在电话，准许由同样IP电话做正常呼叫，无需影响PLAR功能。

SIP PLAR配置

步骤1.创建SIP PLAR拨号规则

- 导航toCall路由>拨号规定> SIP拨号规则
- 添加新。

The screenshot shows the 'SIP Dial Rule Configuration' interface. At the top, there are buttons for Save, Delete, Reset, Apply Config, and Add New. Below this is a 'Status' section with an 'Update successful' message. The main configuration area is divided into three sections: 'SIP Dial Rule Information', 'Pattern Information', and 'Pattern Addition'.
- 'SIP Dial Rule Information': Name is 'PlarTo1161', Description is 'Plar for Button 2', and Dial Pattern is '7940_7960_OTHER'.
- 'Pattern Information': A table with columns 'Description', 'Delete Pattern Dial Parameter', 'Value', and 'Delete Parameter'. It shows a row for '1161' with 'Button' selected for the parameter and '2' for the value. Buttons for 'Edit Parameter', 'Delete Selected', and 'Add New Parameter' are present.
- 'Pattern Addition': A field for 'Pattern Description' and buttons for 'Add Pattern' and 'Add Plar'.
At the bottom, there are buttons for Save, Delete, Reset, Apply Config, and Add New.

注意：说明字段可选。

注意：拨号参数，设置为按钮，为了强制PLAR功能到设备的only1 DN。

注意：如果PLAR在另一个按钮或IP电话要求，另一个PLAR规则需要创建。

步骤2.分配规则到SIP电话。

这在SIP电话只要求。

The screenshot shows the 'Protocol Specific Information' configuration section for a SIP phone. It contains several dropdown menus and checkboxes:
- 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 (with a 'View Details' link)
- Digest User: < None >
Below these are three checkboxes: 'Media Termination Point Required', 'Unattended Port', and 'Require DTMF Reception', all of which are currently unchecked.

验证

为了验证配置正确地被执行了请采取电话挂。电话自动地拨号号码1161。