CUCM PLAR Configuration Example

Contents

Introduction:
Requirements
Components Used
Configuration Steps
SCCP PLAR Configuration
SIP PLAR Configuration
Verify

Introduction:

This document discusses how to configure a Cisco IP Phone for Private Line Automatic Ring-down (PLAR) or Hotdial with Cisco Unified Communications Manager (CUCM).

PLAR feature is designed so, as soon as the phone goes off-hook on a specific line it dials a pre-configured number.

Contributed by Jose Villalobos, Cisco TAC Engineer.

Edited by Luis Ramirez, Cisco TAC Engineer.

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Unified Communications Manager (CUCM)
- Calling Search Space (CSS)
- Partition (PT)
- Translation Patterns
- Session Initiation Protocol (SIP) Dial Rules

Components Used

The information in this document is based on these software and hardware versions:

- CUCM 10.5
- Skinny Client Control Protocol (SCCP) & SIP phones register with CUCM

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, ensure that you understand the potential impact of any change.

Related Products
This document can also be used with these hardware and software versions:


**Configuration Steps**

**SCCP PLAR Configuration**

In order to allow the phone to automatically dial a pre-configured phone number when the IP Phone goes off-hook, a CSS is configured with a partition that contains a translation pattern with a blank translation pattern string. This results in Cisco Call Manager immediately match this pattern. The translation pattern then transforms the called number (i.e. none) to the destination number (Hotdial) where the call is delivered.

**Note:** Since a Directory Number (DN) configured for PLAR dials a preconfigured number when it goes off-hook, you cannot use PLAR DN to dial any other numbers. For example, this is a typical configuration in hotel lobbies.

**Step 1.** Create a partition for the PLAR destination.

Navigate to **Call Routing > Class Control > Partition** and then **Add a New Partition**. Enter the required details and then click **Insert**.

![Partition Configuration](Image)

**Status**

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*  

to1611, Plar To 1611

![Save Button]
Step 2. Create a new CSS

Navigate to **Call Routing** > **Class Control** > **Calling Search Space** and then click **Add a New Calling Search Space**.

Step 3. Create a translation pattern.

Navigate to **Call Routing** > **Translation Pattern** and then click **Add a New Translation Pattern**. Select the desired partition name and CSS that were previously created in Step One and Step Two. Finally, under **Called Party Transformation Mask**, enter the PLAR target number. Click **Insert**.

**Note:** Ensure that the Translation Pattern field is left blank.
Note: The design behind the example is base on DN 1161. 1161 is the target for the PLAR, but this configuration guarantees that 1161 can get a call from any other phone.

The CSS used in the first screenshot for the Translation Pattern has access to the target DN partition.

**Step 4.** Assign the desired Calling Search Space for the PLAR phone.

- Navigate to **Device > Phone**
- Click **Find** in order to locate all the registered IP phones in Cisco Unified Communications
Manager

- Select the PLAR phone, and choose the DN to PLAR
- Assign the CSS to the DN for PLAR

**Note:** This configuration example creates a PLAR on DN 1054 to 1161, but the CSS is configured to a DN level, which provides the ability to assign another DN to a different button.
on the phone, allowing to make normal calls from the same IP Phone without affecting the PLAR feature.

**SIP PLAR Configuration**

**Step 1. Create SIP PLAR dial Rules**

- Navigate to **Call Routing > Dial Rules > SIP Dial Rules**
- **Add new.**

![SIP Dial Rule Configuration](image)

**Note:** The description field is optional.

**Note:** The Dial Parameter, is set to `button`, in order to force the PLAR feature to only 1 DN of the device.

**Note:** If PLAR is required in another button or IP Phone, another PLAR Rule needs to be created.

**Step 2. Assign the Rule to the SIP phones.**

This is only required on SIP phones.
Verify

In order to verify that the configuration was performed correctly take the phone off hook. The phone automatically dials the number 1161.