Configure CUCM Private Line Automatic Ring-down (PLAR)

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Introduction

This document describes how to configure a Cisco IP Phone for PLAR or Hotdial with Cisco Unified Communications Manager (CUCM).

Prerequisites

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 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 command.

- 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:

CUCM 8.X/9.X/11.X/12.X/14.X

Configuration Steps

SCCP PLAR Configuration

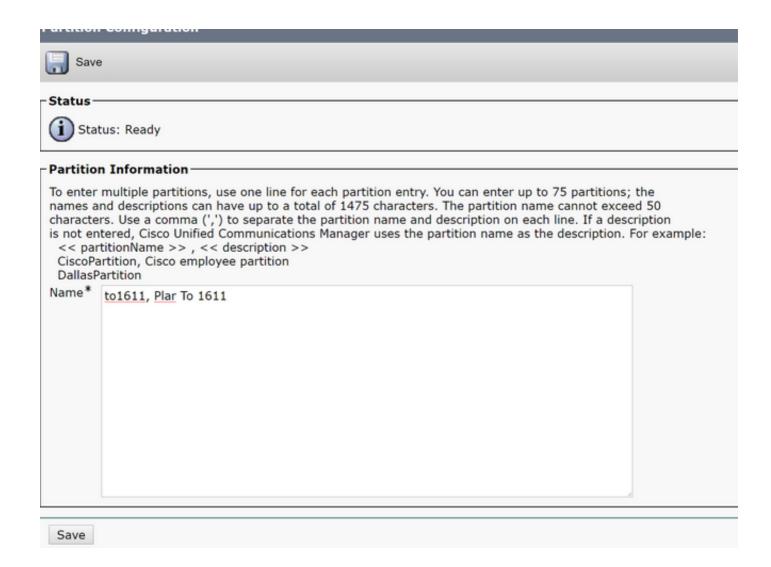
In order to allow the phone to automatically dial a pre-configured phone number when the IP Phone goes off-hook, a CSS is configured with a partition that contains a translation pattern with a blank translation pattern string. This results in Cisco Call Manager immediately matching this pattern. The translation pattern then transforms the called number which is 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.

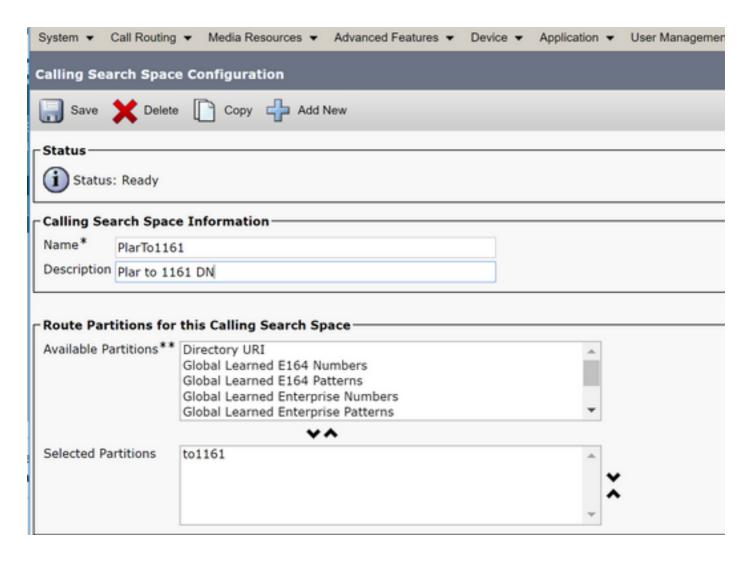
Step 1. Create a Partition for the PLAR Destination

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



Step 2. Create a New CSS

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

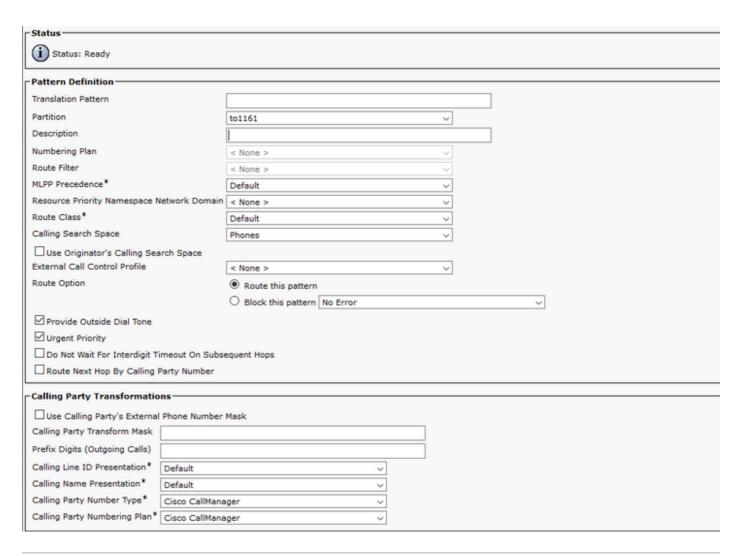


Step 3. Create a Translation Pattern

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.

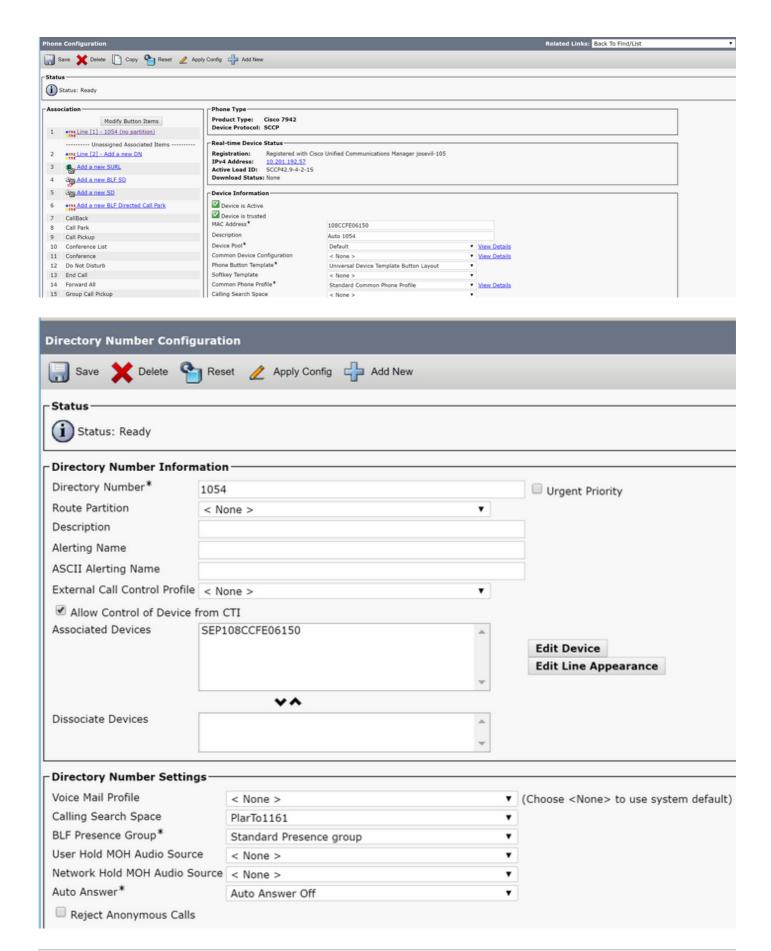


Note: The design behind the example is base on DN 1161. 1161 is the target for the PLAR, but this configuration guarantees that 1161 can get a call from any other phone.

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.

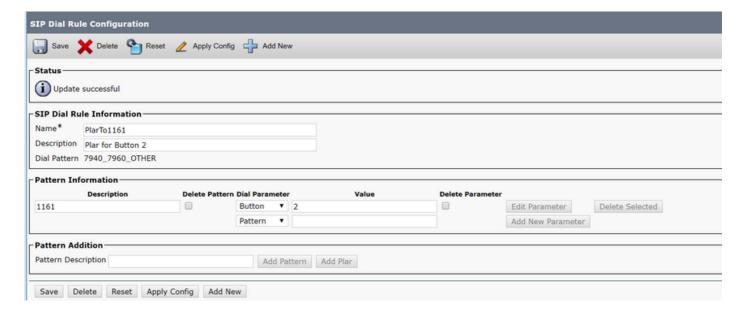
SIP PLAR Configuration

Step 1. Create SIP PLAR Dial Rules

- Navigate to Call Routing > Dial Rules > SIP Dial Rules
- · Click Add New.

Step 2. Create a New Pattern

- Add a pattern description. Typing the description activates buttons Add Pattern and Add Plar.
- · Click Add Plar.





Note: Set the Value field to 1 if this is a single line IP Phone.



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 3. 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.