配置CUCM專用線路自動振鈴(PLAR)

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簡介

本文檔介紹如何使用思科統一通訊管理器(CUCM)為PLAR或熱撥號配置思科IP電話。

必要條件

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。

• 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,請確保您瞭解所有更改的潛在影響。

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/12.X/14.X

設定步驟

SCCP PLAR配置

為了允許電話在IP電話摘機時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 模式將無被叫號碼轉換為呼叫送達的目標號碼(熱撥號)。

✤ 注意:由於為PLAR配置的電話號碼(DN)在摘機時撥打預配置的號碼,因此您不能使用PLAR DN撥打任何其他號碼。例如,這是飯店大堂的典型配置。

步驟 1.為PLAR目標建立分割槽

導航到呼叫路由>類控制>分割槽,然後增加新分割槽。輸入所需的詳細資訊並按一下Insert。

i urtition	Conniguration	
Save		
-Status -		
(i) Stat	tus: Ready	
- Partition	n Information	
To enter i names ar character is not ent << part CiscoPal DallasPa	multiple partitions, use one line for each partition entry. You can enter up to 75 partitions; th nd descriptions can have up to a total of 1475 characters. The partition name cannot exceed rs. Use a comma (',') to separate the partition name and description on each line. If a descriptered, Cisco Unified Communications Manager uses the partition name as the description. For titionName >> , << description >> urtition, Cisco employee partition artition	e 50 tion • example:
Name*	to1611, Plar To 1611	
Save		

步驟 2.建立新的CSS

導航到呼叫路由>類控制>呼叫搜尋空間,然後按一下增加新呼叫搜尋空間。

System 👻 🕻	Call Routing	▼ Media Resources ▼	Advanced Features 🔻	Device 🔻	Application -	User Managemen
Calling Sea	rch Spac	e Configuration				
Save	X Delete	Copy 🕂 Add 1	New			
┌ Status —						
(i) Status	: Ready					
Calling Sea	arch Spac	e Information				
Name*	PlarTo116	1				
Description	Plar to 11	61 DN				
L						
Route Part	itions for	this Calling Search Sp	ace			
Available Pa	artitions**	Directory URI			*	
		Global Learned E164 Nu	umbers			
		Global Learned E164 Pa	itterns ise Numbers			
		Global Learned Enterpri	se Patterns		*	
		¥.	^			
Selected Pa	rtitions	to1161				
					*	
					^	
					Y	

步驟 3.建立翻譯模式

導航到呼叫路由>轉換模式,然後按一下增加新轉換模式。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目標號碼。按一下Insert。

💊 註:確保「轉換模式」欄位留空。

Status					
i Status: Ready					
Pattern Definition					
Translation Pattern					
Partition	to1161 V				
Description					
Numbering Plan	< None > V				
Route Filter	< None >				
MLPP Precedence*	Default				
Resource Priority Namespace Network Domain	< None > V				
Route Class*	Default				
Calling Search Space	Phones V				
Use Originator's Calling Search Space					
External Call Control Profile	External Call Control Profile < None >				
Route Option	Route this pattern				
	O Block this pattern No Error v				
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* Default					
Calling Name Presentation* Default	~				
Calling Party Number Type* Cisco CallMan	ager v				
Calling Party Numbering Plan* Cisco CallMan	ager v				

✤ 註:此示例背後的設計基於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。

轉換模式的第一個擷取畫面中使用的CSS可以存取目標DN分割區。

步驟4.為PLAR電話分配所需的呼叫搜尋空間

- 導航到裝置 > Phone。
- 按一下Find以在Cisco Unified Communications Manager中查詢所有已註冊的IP電話
- 選擇PLAR電話,並選擇DN to PLAR。
- 將CSS指派給PLAR的DN。

Image: Sector I and the Mathematical And Sector Provide Sector P	Save ★ Delete Copy ▲ Reset ▲ Apply Config C Itatus Itatus Itatus Produ Produ Device Status: Ready Image: Status: Ready Image: Status: Ready Produ Device Produ Device 1 Image: Line [1] - 1054 (no partition) Image: Reset Produ Device Produ Device Real-ti Regist Regist Device Regist Regist Device Config C	Add New Type Cisco 7942 Protocol: SCCP ime Device Status Tration: Registered with C kddress: 10.201.192.52 Load ID: SCP42.9-42-15 load Status: None Information rice is Active rice is trusted ddress* tion	isco Unified Communications Manager josevil-105			
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Implementation Impl	emittine [2] - Add a new DN Registi IPv4 A Add a new SURL Comparing Add a new SURL Downl Comparing Add a new SUR Downl Call Back IPv4 A Call Park Descrip Call Park Descrip Call Park Descrip Call Call Conference List Descrip 1 Conference 2 Do Not Disturb 3 End Call 4 Forward All	ration: Registered with (kddress: 10.201.192.57 Load ID: SCCP42.9-4-2-15 load Status: None e Information vice is Active vice is trusted ddress*	isco Unified Communications Manager josevil-105			
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s Group Calleg Search Space Calleg Search Space Interctory Number Configuration Status Status Status: Ready Directory Number Information Directory Number Information Directory Number 1054 Conce > Con		on Phone Profile*	< None > Standard Common Phone Profile	View Details		
irectory Number Configuration Save Delete Prove Provide Pro	5 Group Call Pickup Calling	Search Space	< None >	•		
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Edit Device	Associated Devices SEP10	08CCFE06150				
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					Edit Device	
Edit Line Appearance					Edit Line Appearance	
v				*		
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	Discosisto Devisor					
Dissociate Devices	Dissociate Devices					

Voice Mail Profile < None > (Choose <None> to use system default) Calling Search Space PlarTo1161 ۳ BLF Presence Group* Standard Presence group ٠ User Hold MOH Audio Source ۲ < None > Network Hold MOH Audio Source < None > ۳ Auto Answer* Auto Answer Off • Reject Anonymous Calls

◆ 注意:此配置示例在DN 1054到1161上建立了PLAR,但CSS配置為DN級別,這使得能夠將 另一個DN分配給電話上的不同按鈕,從而能夠從同一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

- 導航到呼叫路由>撥號規則> SIP撥號規則
- 按一下Add New。

步驟 2.建立新陣列

- 增加模式說明。鍵入說明可啟動「新增圖樣」和「新增圖面」按鈕。
- 按一下Add Plar。

🔚 Save 🗶 Delete 🎦 Reset 🖉 Apply Config 🕂 Add New	
_ Status	
Update successful	
SIP Dial Rule Information	
Name* PlarTo1161	
Description Plar for Button 2	
Dial Pattern 7940_7960_OTHER	
Pattern Information	
Description Delete Pattern Dial Parameter Value Delete Parameter	
1161 Button 7 2 Edit Parameter Delete Selected	
Pattern Add New Parameter	
Pattern Addition	
Pattern Description Add Pattern Add Plar	
Save Delete Reset Apply Confin Add New	



注意:如果這是單線路IP電話,請將「值」欄位設定為1。

💊 附註:說明欄位是選擇性的。

💊 註:「Dial Parameter」設定為「button」,以強制PLAR功能僅佔用裝置的1 DN。

💊 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 3.將規則分配給SIP電話

這僅在SIP電話上是必需的。

Protocol Specific Information —			
Packet Capture Mode*	None	٠	
Packet Capture Duration	0		
BLF Presence Group*	Standard Presence group	•	
SIP Dial Rules	PlarTo1161	•	
MTP Preferred Originating Codec*	711ulaw	Ŧ	
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	٠	View Details
Digest User	< None >	٠	
Media Termination Point Require	ed		
Unattended Port			
Require DTMF Reception			

驗證

為了驗證配置是否正確執行,請摘機電話。電話自動撥打號碼1161。

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)。