

CUCM - Partition

Una partición comprende una agrupación lógica con características de accesibilidad similares

- números de directorio (DN)
- patrones de ruta(route patterns)
- patrones de traducción (translation patterns)
- puertos de casilla de voz (voice-mail ports)

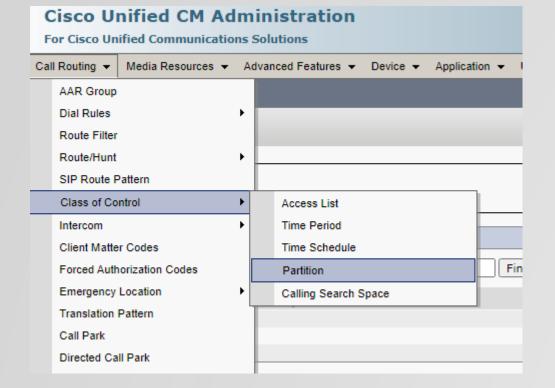
Para simplificar, los nombres de las particiones suelen reflejar sus características, como

- PT-Celulares ,
- PT-Nacionales,
- PT-Interno,
- PT-Secretaria

¿Quién Puede llamarme?



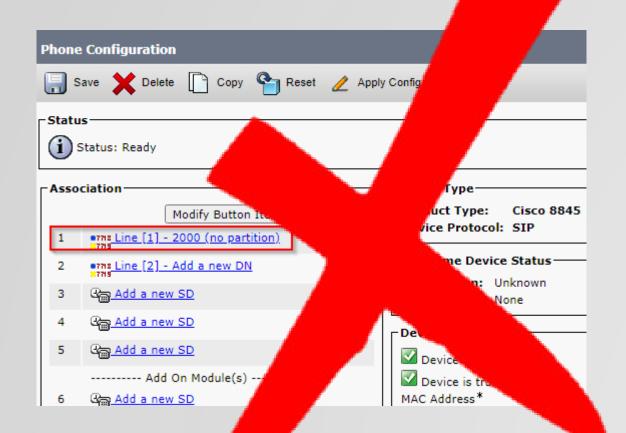
CUCM -

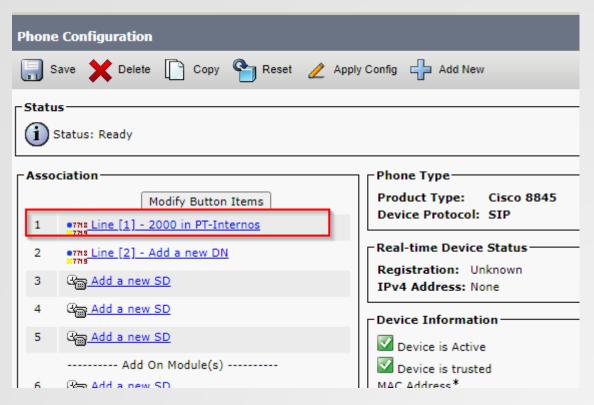


To enter multiple partitions, use one line for each partition entry. You can enter up to 75 partitions; the names and descriptions can have up to a total of 1475 characters. The partition name cannot exceed 50 characters. Use a comma (,) to separate the partition name and description on each line. If 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* PT-Internos, Particion para Telefonos Internos PT-Celualres, Particion para Celulares

<u>PT-Celualres</u>	Particion para Celulares
<u>PT-Internos</u>	Particion para Telefonos Internos

CUCM - NO PARTITION / PARTITION





CUCM – Calling Search Space - CSS

Un espacio de búsqueda de llamadas (Calling search space, CSS) es una lista ordenada de particiones.

Los css determinan las particiones que los dispositivos buscan al intentar completar una llamada:

- Teléfonos IP
- Softphones
- · Gateways.

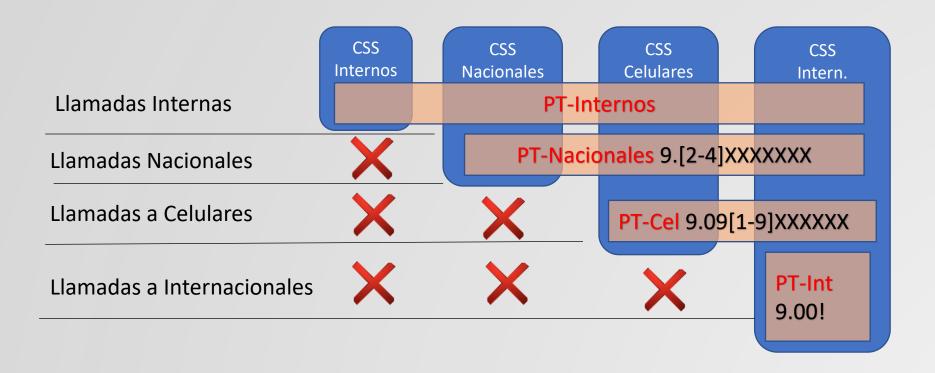
Un CSS ,con nombre "Supervisores" contiene 4 particiones : Nacionales, Internacionales , Emergencia ,Celulares

Un CSS, con nombre "Invitados" contiene 2 particiones: Nacionales, Emergencia

Si un IP-Phone o DN está configurado con el CSS "Invitado", solo busca en las particiones "Nacionales" y "Emergencia" cuando inicia la llamada.

Si un usuario que llama desde este número intenta marcar un número internacional, no se produce una coincidencia y la llamada no se puede enrutar.

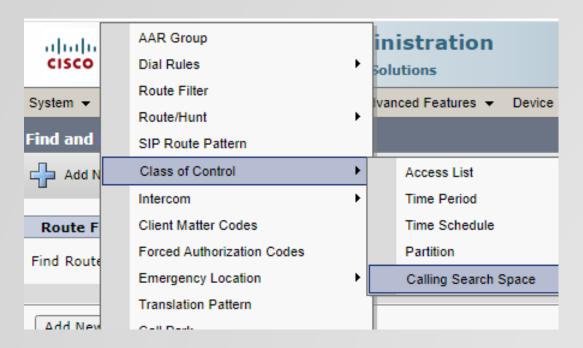
CUCM – CSS / Particiones

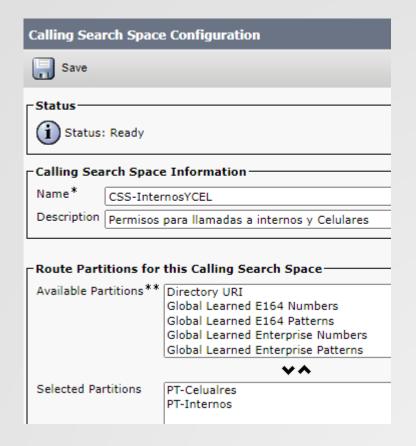


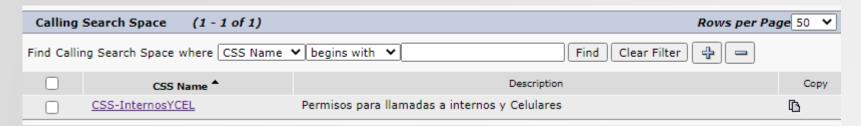
- 1. A donde puede llamar alguien
- 2. Ruteo Geográfico

Lista de Particiones

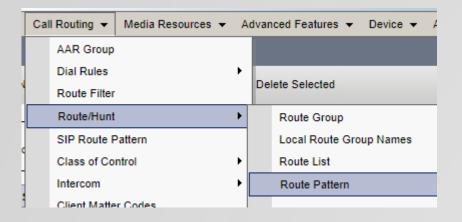
CUCM - CSS

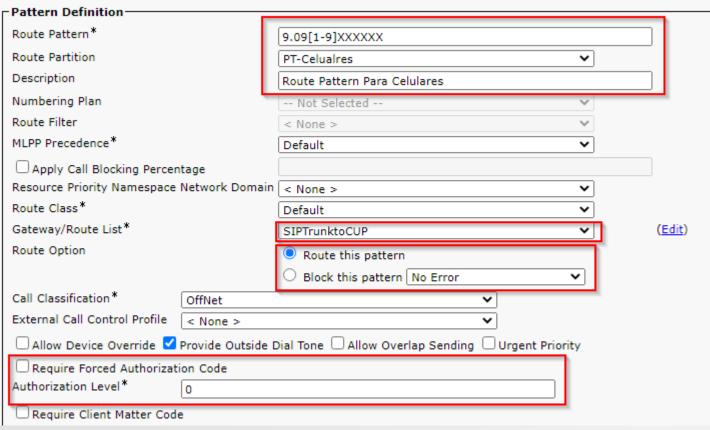


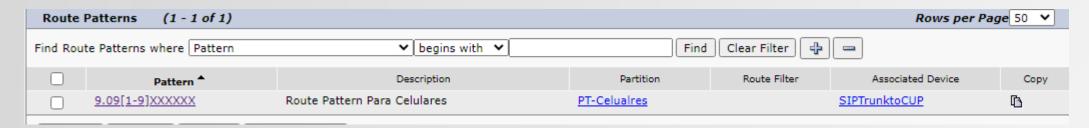




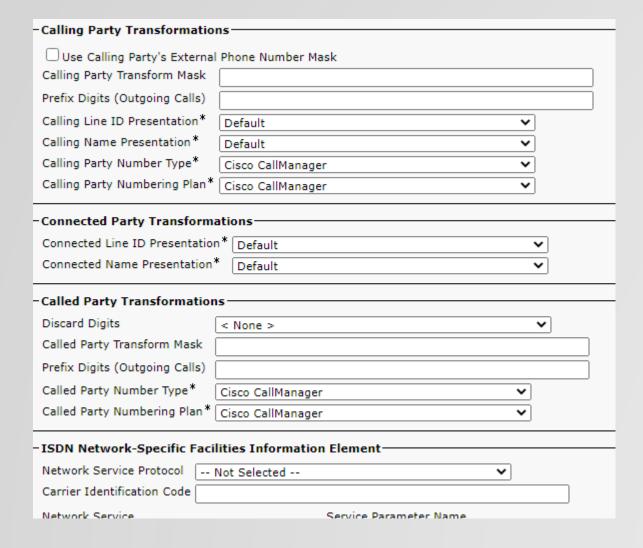
CUCM – Route Patterns

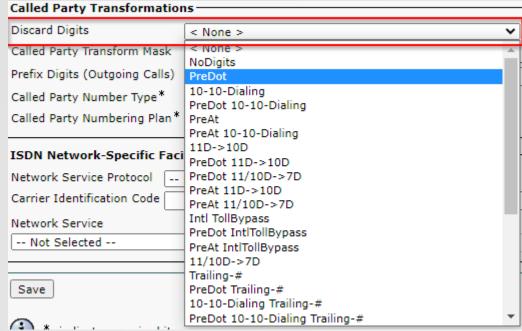






CUCM - Route Patterns





CUCM -NULL Partition



Ninguno de los 2 teléfonos tienen configurado un CSS

¿Pueden llamarse?

CUCM – Los CSS cumplen 2 Reglas

Siempre se puede llamar a un DN que no este en una partición



Solo se puede llamar a un DN, si la partición de ese DN esta en el CSS



CUCM – Ejercicio CSS

- 1 Usuario disca 2000
- 2 Usuario disca 3000
- 3 Secretaria disca 3000
- 4 Secretaria disca 2000
- **5** Jefe disca 2000
- 6 Jefe disca 4000
- **7** Usuario disca 9.001-801-240-7845
- **8** Jefe disca 9.099-801-478

USUARIO



- Linea 1 1000 PT INTERNO
- Linea 2 2000 PT_INTERNO
- CSS:
 - PT SECRETARIA
 - PT INTERNO
 - PT CELULARES
 - PT_NACIONALES

SECRETARIA



- Linea 1 2000 PT SECRETARIA
- Linea 2 3000 PT INTERNO
- CSS:
 - PT JEFE
 - PT INTERNO
 - PT CELULARES

JEFE



- Linea 1 3000 PT_JEFE
- CSS:
 - PT INTERNO
 - PT SECRETARIA
 - PT_NACIONALES



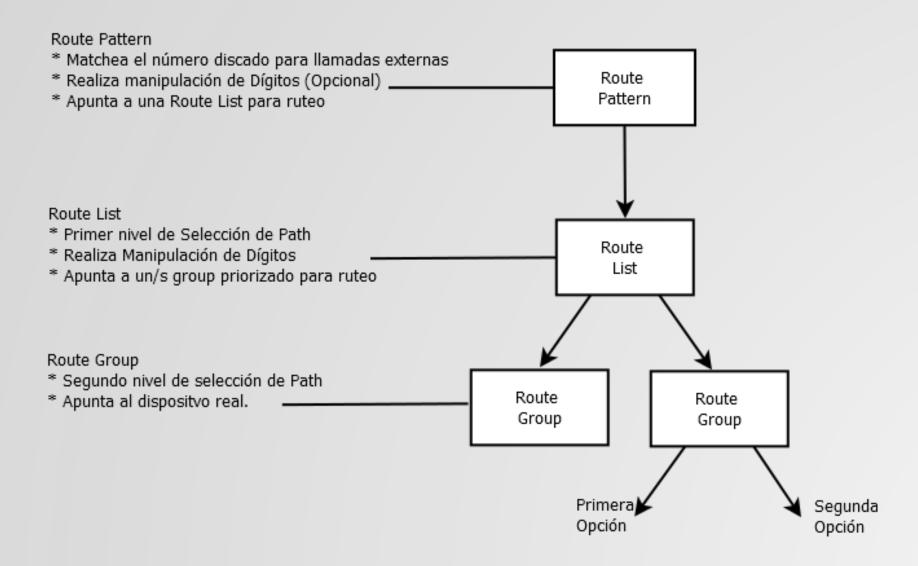
CUCM – Route Group

Un **route group** es una lista de devices (gateways, trunks).

Un route group puede ser configurado para manejar estas distribuciones

- distribución circular (round-robin)
 - es usada para distribuir recursos de carga
- distribución arriba-abajo (top-down)
 - para priorizar el uso de una gateway dentro de un route group

CUCM - Selection Path



CUCM – Path Selection

Para implementar una elección de camino (path selection) en el CUCM, la lógica del procesamiento de llamada debe ser construida desde abajo hacia arriba (bottom-up)

- Cuando se crea un route group, recién ahi se pueden cargar los dispositivos que va a formar parte del grupo.
- Si los devices no existen todavía, no hay nada que se pueda correlacionar al route group

Los siguientes pasos debe realizarse en el orden dado

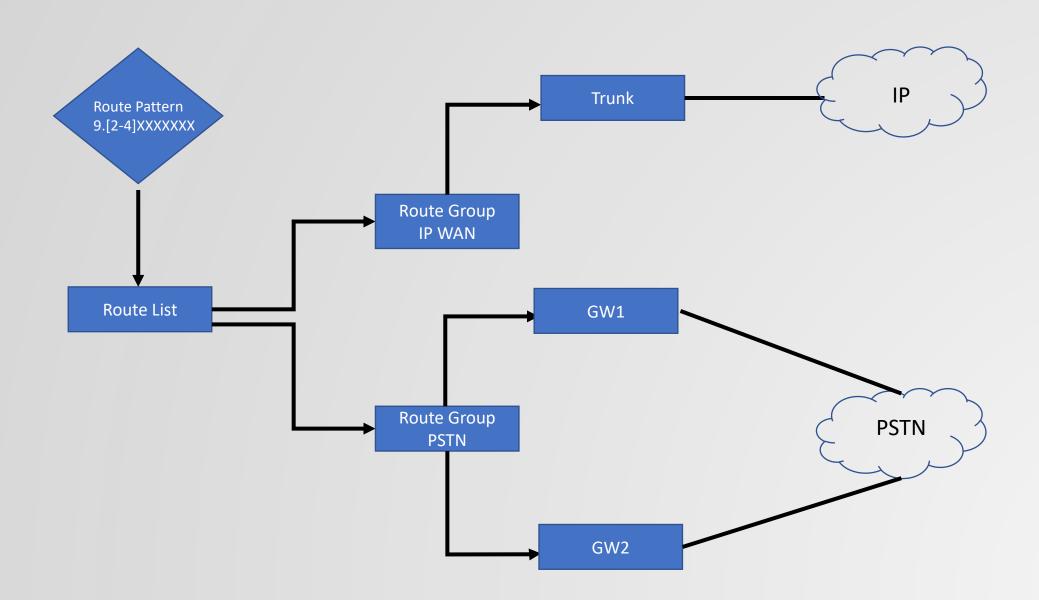
Paso 1 Agregar Dispositivos (Gateways y trunks).

Step 2 Crear route groups con devices disponibles

Step 3 Crear route list con route group disponibles.

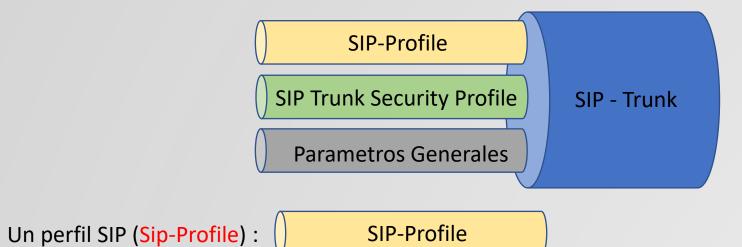
Step 4 Crear route patterns apuntando a los route lists

CUCM -

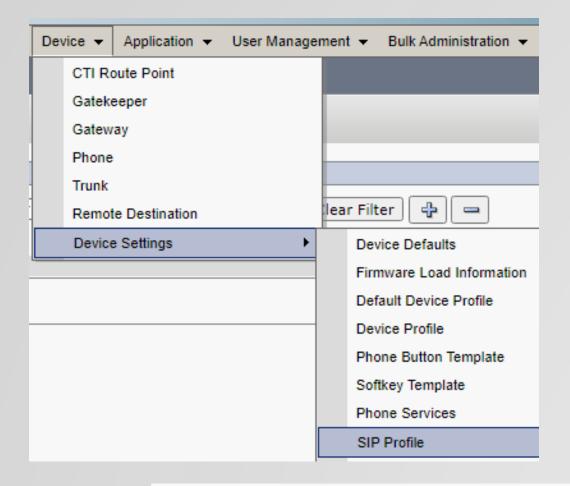


SIP TRUNK: SIP Profile & Sip Trunk Security Profile

CUCM – Sip Profile

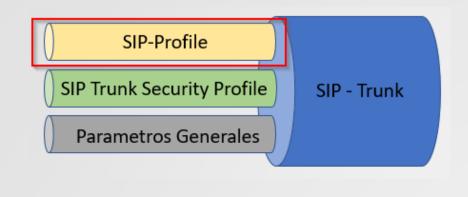


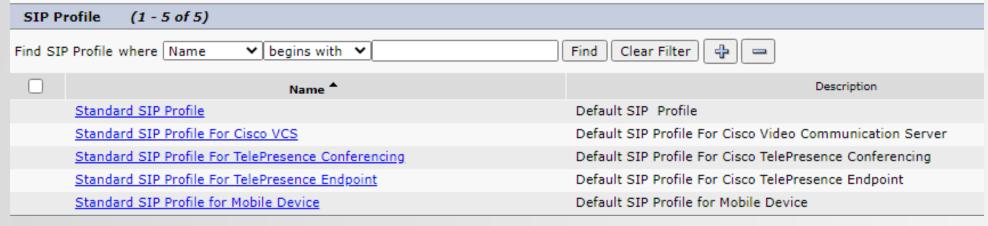
- Es un template que comprende configuraciones SIP comunes.
- Al implementar troncales SIP (Sip-Trunk) en la red, se puede aplicar configuraciones SIP comunes a grupos de dispositivos a través del SIP-Profile.
- Sin el perfil SIP, tendría que configurar los ajustes individualmente para cada troncal y dispositivo SIP en la red.



CUCM – SIP Profile

• Un perfil SIP (Sip-Profile) es un template que comprende configuraciones SIP comunes.





i Status: Ready i All SIP devices using this profile must be restarted before any changes will take affect. SIP Profile Information Name * Standard SIP Profile Description Default SIP Profile Disabled V Disabled V Disabled V Disabled Disable Early Media on 180 Outgoing T.38 INVITE include audio miline Offer valid IP and Send/Receive mode only for T.38 Fax Relav Disable Early Qualified Domain Name in SIP Requests Assured Services SIP conformance Enable External Qos** SIP Trunk Parametros Generales SIP Trunk SPD Information SDP Session-level Bandwidth Modifier for Early Offer and Re-invites * TIAS and AS SDP Transparency Profile Accept Audio Codec Preferences in Received Offer * Default Disabled Recover Profity Namespace Intime Tit (Received S6000 Timer 12 (Rese)* 500 Timer 12 (Rese)* 500 Timer 12 (Rese)* 500 Retry INVITE* 6 Retry Mon-INVITE* 6 Retry Mon-INVITE* 10 Desabled Sop For Audio Calls Disc Por Audio Calls Disc Profile Orticle Calls Disc Profile O			Parameters used in Phone	
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Retry INVITE	All SIP devices using this profile must be	e restarted before any changes will take affect.	Timer T1 (msec)*	500
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Accept Addit Codec Preferences in Received Offer Default				
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Require SDP Inactive Exchange for Mid-Call Media Change	Require SDP Inactive Exchange for Mid-	Call Media Change		
Allow DR/RS handwidth modifier (RSC 2556)	Allow RR/RS bandwidth modifier (REC.3	(556)		
Timer Subscribe Delta (seconds)* Maximum Redirections* 70		,		

✓ Conference Join Enabled
RFC 2543 Hold
✓ Semi Attended Transfer
☐ Enable VAD
Stutter Message Waiting
MLPP User Authorization
Normalization Script
Normalization Script < None >
Enable Trace
Parameter Name
1
External Presentation Information
Anonymous External Presentation
External Presentation Number
External Presentation Name
External Presentation Name
External Presentation Name
External Presentation Name

Trunk Specific Configuration————————————————————————————————————				
Reroute Incoming Request to new Trunk based on ${}^{\displaystyle *}$	Never		~	
Resource Priority Namespace List	< None >		~	
SIP Rel1XX Options*	Disabled		~	
Video Call Traffic Class*	Mixed		~	
Calling Line Identification Presentation*	Default		~	
Session Refresh Method*	Invite		~	
Early Offer support for voice and video calls*	Disabled (Default v	alue)	~	
☐ Enable ANAT				
Deliver Conference Bridge Identifier				
Enable External Presentation Name and Number				
Reject Anonymous Incoming Calls				
Reject Anonymous Outgoing Calls				
Send ILS Learned Destination Route String				
Connect Inbound Call before Playing Queuing Ar	nouncement			
SIP OPTIONS Ping				
☐ Enable OPTIONS Ping to monitor destination st	tatus for Trunks with	Service Type "None (Default)"		
Ping Interval for In-service and Partially In-service Trunks (seconds)* 60				
Ping Interval for Out-of-service Trunks (seconds)*		120		
Ping Retry Timer (milliseconds)*		500		
Ping Retry Count*		6		
SDP Information—				
Send send-receive SDP in mid-call INVITE				
Allow Presentation Sharing using BFCP				
Allow iX Application Media				
Allow multiple codecs in answer SDP				

CUCM – SIP Security Profile

SIP Trunk Security Profile

Sys	System ▼ Call Routing ▼ Media Resources ▼ Advanced Features				
	Server				
	Service	e Parameters			
	Securit	ty	•		Certificate
	Applica	ation Server			Phone Security Profile
	Licensi	ing	•		SIP Trunk Security Profile
SIP Trunk Security Profile (1 - 3 of 3)					
Find SIP Trunk Security Profile where Name					
	Name *				
	Non Secure SIP Conference Bridge				
	Nor	Non Secure SIP Trunk Profile			
	SIP Trunk for Presence				

CUCM proporciona un perfil de seguridad SIPtrunk no seguro y predefinido para el registro automático.

-SIP Trunk Security Profile Information				
Name*	SIP Trunk for Presence			
Description	SIP Trunk for Presence			
Device Security Mode	Non Secure			
Incoming Transport Type*	TCP+UDP			
Outgoing Transport Type	TCP			
Enable Digest Authentication				
Nonce Validity Time (mins)*	600			
Secure Certificate Subject or Subject Alternate Name				
Incoming Port*	5060			
Enable Application level authorization				
✓ Accept presence subscription				
✓ Accept out-of-dialog refer**				
✓ Accept unsolicited notification				
✓ Accept replaces header				
Transmit security status				
Allow charging header				
SIP V.150 Outbound SDP Offer Filtering*	Use Default Filter			
Save Delete Copy Reset Apply Config	Add New			



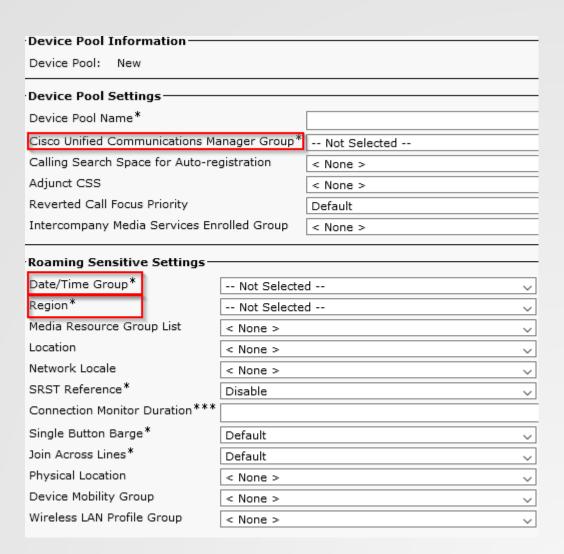
CUCM — Device Pool : Requerido Opcional

Propósito:

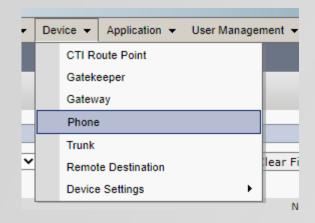
 Brindar una manera conveniente de definir un conjunto de características comunes que se pueden agregar a los dispositivos, en lugar de asignarlas como características individuales

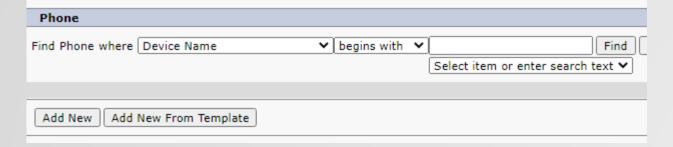
Previo a Configurar el Device Pool, se deben configurar:

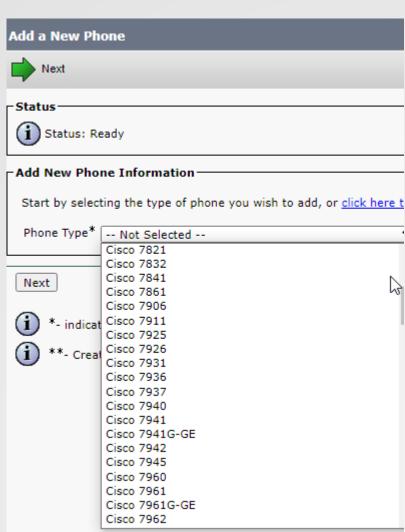
- Cisco Unified Communications Manager group.
 - Lista de servidores para Registración del Teléfono
- Date/time group.
- Region.
 - Se usa si se quiere frozar el uso de codecs entre diferentes regiones logicas. De lo contrario se usa el Defualt
- SRST reference.
- Media resource group list.
- Calling search space for auto-registration.



CUCM - IP Phone







CUCM – IP Phone

Phone Type				
Product Type: Cisco 7821				
Device Protocol: SIP				
Device Information				
Device is trusted				
MAC Address*				
Description				
Require Activation Code for Onboard	ling			
Device Pool*	Not Selected	<u> • v</u>		
Common Device Configuration	< None >	∨ <u>∨</u>		
Phone Button Template*	Not Selected	~		
Softkey Template	< None >	~		
Common Phone Profile*	Standard Common Phone Profile	<u> </u>		
Calling Search Space	< None >	~		
AAR Calling Search Space	< None >	~		
Media Resource Group List	< None >	~		
User Hold MOH Audio Source	< None >	~		
Network Hold MOH Audio Source	< None >	~		
Location*	Hub_None	~		
AAR Group	< None >	~		
User Locale	< None >	~		
Network Locale	< None >	~		
Built In Bridge*	Default	~		
Privacy*	Default	~		
Device Mobility Mode*	Default	~		
Owner	 User O Anonymous (Public/Shared Space) 			
Owner User ID*		~		
Mobility User ID	< None >	~		
Phone Personalization*	Default	~		
Services Provisioning*	Default	~		

Protocol Specific Information				
Packet Capture Mode*	None			
Packet Capture Duration	0			
BLF Presence Group*	Standard Presence group			
SIP Dial Rules	< None >			
MTP Preferred Originating Codec*	711ulaw			
Device Security Profile*	Not Selected			
Rerouting Calling Search Space	< None >			
SUBSCRIBE Calling Search Space	< None >			
SIP Profile*	< None >			
Digest User	< None >			
Media Termination Point Required				
Unattended Port				
Require DTMF Reception				