Dial IP Addresses from Endpoints Registered to CUCM with VCS / Expressway Configuration Example

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Introduction

Este documento descreve como você pode discar endereços IP de endpoints registrados no Cisco Unified Communications Manager (CUCM) com o Cisco Video Communication Server (VCS) ou o Cisco Expressway como uma solução.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Zonas vizinhas no Cisco VCS / Expressway
- Transforma e pesquisa regras no Cisco VCS / Expressway
- Padrões de rota do Session Initiation Protocol (SIP) e troncos SIP no CUCM

Note: Neste documento, supõe-se que a zona de passagem do VCS Control / Expressway-C em direção ao VCS Expressway / Expressway-E está ativa e que a chave de interfuncionamento está instalada no VCS / Expressway.

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Cisco VCS x8.1 e posterior
- CUCM versão 9 e posterior

Note: O mesmo documento pode ser usado para implantações da série Expressway.

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, make sure that you understand the potential impact of any command.

Background

O CUCM não suporta discagem de endereço IP. Se você quiser usar a discagem de endereço IP, a Cisco recomenda um dos dois procedimentos descritos neste artigo. Um exemplo de caso de uso seria para os endpoints registrados no CUCM discarem um endpoint H.323 por endereço IP.

Opção 1

- Adicione um sufixo ao endereço IP para que a string se assemelhe a um URI (Uniform Resource Identifier) SIP.
- Por exemplo, para discar o endereço IP **198.51.100.2**, os usuários discarão para **198.51.100.2@domain**.
- O administrador precisa instruir os usuários a discar <endereço IP>@domínio. Esse domínio pode ser o domínio interno corporativo ou um domínio fictício. Este documento é baseado no uso do domínio VCS.

Opção 2

- Substitua os pontos por um símbolo para transformar o endereço IP em uma string.
- Por exemplo, para discar o endereço IP 198.51.100.2, os usuários discarão 198*51*100*2.

Note: Em ambas as opções, o Expressway-E tenta ligar para o endereço IP com o protocolo H.323. Se o endpoint de destino não suportar H.323, você deve ativar o SIP UDP. Caso contrário, mantenha o SIP UDP desabilitado.

Note: A opção 2 pode ser usada com telefones IP ou quando você disca a partir da CLI ou da GUI da Web de endpoints que usam o software Tandberg Codec (TC). Quando você tenta discar * com Painel de toque ou Controle remoto, isso pode não funcionar, pois * é automaticamente convertido em . ao usar essas opções para discar.

Configuração

Note: Essa configuração é aplicável às duas opções mencionadas anteriormente.

Configuração do CUCM

No CUCM, o administrador precisa configurar um perfil de segurança de tronco SIP para VCS na porta 5060 (isso supõe que 5060 é a porta usada no VCS em direção ao CUCM via TCP).

Note: Se você usar a porta 5060 / 5061 para acesso móvel e remoto (MRA), use uma porta TCP diferente (como 5075) para o perfil de segurança de tronco SIP.

Escolha System > Security > SIP Trunk Security Profile no CUCM e clique em Add New.

ababi	Cisco U	nified Cl	M Ad	ministration	Navigation Cisco Unified CM Administration						Go			
cisco	For Cisco Un	ified Commu	nication	ns Solutions				admin	Sear	ch Documer	ntation	About	I Lo	gout
System 👻	Call Routing 🔻	Media Resource	ces 🕶	Advanced Features 👻	Device 🔻	Application -	User Manage	ement 👻	Bulk Adr	ninistration 🔹	Help	•		
Find and L	list SIP Trunk	Security Pr	rofiles											
Add New														
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	No active query. Please enter your search criteria using the options above.													
Add New	<i>,</i>													

Crie um perfil de segurança de tronco SIP como mostrado nesta captura de tela.

Cisco Unified CM	Administration cations Solutions	Navigation Cisco Unified CM Administration Go admin Search Documentation About Logout							
System - Call Routing - Media Resource	s + Advanced Features + Device +	Application - User Management - Bulk Administration - Help -							
SIP Trunk Security Profile Configura	tion	Related Links: Back To Find/List 🗘 Go							
🔜 Save 🗙 Delete 📄 Copy 蠀 Ri	eset 🧷 Apply Config 🕂 Add New								
Status									
(i) Status: Ready									
SIP Trunk Security Profile Informatio	n								
Name*	Non Secure SIP Trunk Profile For VCS	cs							
Description	Non Secure SIP Trunk Profile authen	nticated by null S							
Device Security Mode	Non Secure	Non Secure							
Incoming Transport Type*	TCP+UDP	TCP+UDP \$							
Outgoing Transport Type	ТСР	\$							
Enable Digest Authentication									
Nonce Validity Time (mins)*	600								
X.509 Subject 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								

No CUCM, adicione um tronco SIP para o Controle VCS/Expressway-C.

Escolha **Device > Trunk** e clique em **Add New**.

cisco	Cisco Un	nified CM Ad	ministration	I					Navi cucmapp	igation Cisco Unified CM Ad Search Documentation	ministration About	÷ Go Logout
System +	Cell Routing +	Media Resources 👻	Advanced Features	Device +	Application +	User Management 👻	Bulk Administration 👻	Help	-			
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- Add N	ens:											
Trunks												
Find Trunk	s where Devic	e Name	* begins with	Select Ite	m or enter sear	Find Clear Filter	= =					
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Add New												

Essas configurações de tronco dependem do design.

System + Call Routing + Media Resources + Advanced Features + Devic	te + Application + User Waragement + Buck Apministration + Hep +
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ASN.1 ROSE OID Encoding*	No Changes t
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Configuração do controle VCS

Crie uma zona vizinha no controle VCS / Expressway-C em direção ao CUCM.

Escolha **Configuration > Zones > Zones** e clique em **New** para adicionar a zona.

alı cıs	CO Cisc	co TelePresenc	e Video Com	munication Server	Control			
Status	System	Configuration	Applications	Users Maintenan	08			20
Zone	5						You are here: Cor	figuration + Zones + Zones
	Name 🔻	Туре	Calls	Bandwidth used	H323 status	SIP status	Search rule status	Actions
	DefaultZone	Default zone	0	0 kbps	On	On		View/Edit
New	Delete	lect all Unselect all						

Essas configurações de zona dependem do design.

CISCO Cisco TelePresence Video Communication Server Control

Status System Configuration Applications Users M	aintenance (1) Helo. (9) Lacad
Create zone	You are here: <u>Configuration</u> + <u>Zones</u> + <u>Zones</u> + <u>Configuration</u> + <u>Zones</u> + <u>Configuration</u> + <u>Zones</u> + <u>Configuration</u>
Configuration	
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Accept provied registrations	Alex 1
Media encryption mode	Auto : j
ICE support	(of .:)
Aultenfication	
Authentication policy	Do not check oredentials 🗧 👔
S IP authentication trust mode	(ar - :);
Location	
Piser 1 address	10.106.93.167
Peer 2 address	U U
Peer 3 address	0
Peer 4 address	j.
Peer 6 address	<u>i</u>
Peer8 address	U U
Advanced	
Zone profile	Caco Unified Communications Manager (8.8.1 or later)

Create zone Cencel

Certifique-se de que o parâmetro Chamadas para endereços IP desconhecidos esteja definido como Indireto no Controle VCS / Expressway-C. Para fazer isso, escolha Configuração > Plano de discagem > Configuração.

CISCO Cisco TelePresence Video Com	Cisco TelePresence Video Communication Server Control										
Status System Configuration Applications	Users Maintenance	? Help. I Logout									
Dial plan configuration		You are here: Configuration > Dial plan > Configuration									
Configuration											
Calls to unknown IP addresses	Indirect :										
Fallback alies	()										

Save

Configuração do VCS Expressway

Na lista suspensa Chamadas para endereços IP desconhecidos, escolha Direto no VCS Expressway / Expressway-E. Não é necessária uma regra de pesquisa no VCS Expressway / Expressway-E para rotear chamadas baseadas em IP.

CISCO Cisco TelePresence Video Communication Server Expressway									
Status System Configuration Applications	Users Maintenance	Holp. On Logout							
Dial plan configuration		You are here: Configuration + Dial plan + Configuration							
Configuration									
Calls to unknown IP addresses	Direct +								
Fallback alias									

Opção 1 - Adicionar um sufixo ao endereço IP

No CUCM, adicione um padrão de rota SIP para enviar chamadas com o sufixo como vcs.domain para o tronco VCS Control/Expressway-C.

Escolha Roteamento de chamada > Padrão de rota SIP e clique em Adicionar novo.

ababa	Cisco Unified CM Administration					Navigation Cisco Unified CM Administration Go						
cisco	For Cisco	Unified Comm	unicatio	ns Solutions		a	lmin	Search Docum	nentation Ab	out	Logout	
System 👻	Call Routing	 Media Reso 	urces 🕶	Advanced Features 👻	Device 👻	Application	- User	Management 👻	Bulk Administrat	ion 👻	Help 👻	
Find and List SIP Route Patterns												
Add New												
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(i) 0 reco	ords found											
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Find SIP Ro	oute Pattern	where IPv4 P	attern	begins with	:		Fin	d Clear Filter	- 4 -			
No active query. Please enter your search criteria using the options above.												
Add New	v I											

Defina as configurações do padrão de rota SIP como mostrado aqui.

Padrão IPV4: vcs.domain

alada Cisco	Unified CM Administratio	n	Navigation	Cisco Unified CM Administration	÷ Go
CISCO For Cisco	Unified Communications Solutions		admin	Search Documentation	About Logout
System - Call Routing	 Media Resources - Advanced Features 	▼ Device ▼ App	olication 👻 Us	ser Management 👻 Bulk Administ	ration 👻 Help 👻
SIP Route Pattern C	onfiguration			Related Links: Back To Fi	nd/List 🕴 Go
Save					
Status					
i Status: Ready					
Pattern Definition					
Pattern Usage*	Domain Routing	\$			
IPv4 Pattern*	vcs.domain				
IPv6 Pattern					
Description					
Route Partition	< None >	\$			
SIP Trunk/Route List*	VCS_trunk	÷) (Edit)		
Block Pattern					
Calling Party Transf	ormations				
Use Calling Party's	External Phone Mask				
Calling Party Transform	nation Mask				
Prefix Digits (Outgoing	a Calls)		_		
Calling Line ID Present	tation * Default		•		
Calling Line Name Pres	sentation* Default		:		
Connected Party Tra	nsformations				
Connected Line ID Pre	sentation* Default		\$		
Connected Line Name	Presentation* Default		:)		
Save					

No VCS Control / Expressway-C, transforme a parte do domínio de strip de um alias quando um endereço IP é discado.

Escolha Configuration > Dial Plan > Transforms e clique em New.

uļu cis	CO Cise	co TelePresen	ice Video Con	nmunica	tion Ser	rver Control				
Status	System	Configuration	Applications	Users	Mainte	enance				200
Trans	forms							You are here: Configuration	Dial plan	Transforms
_	Priority =	State	Description		Pattern	Туре	Behavior	Replace	Actions	_
New	Delete	nable Disable	Select all Unse	lect all		т	ransforms are ap	oplied in priority order, with 1 be	eing the high	est priority

Crie a transformação conforme mostrado aqui.

String de padrão: (.*)\.(.*)\.(.*)\.(.*)@vcs.domain

Substituir string: \1.\2.\3.\4

CISCO Cisco TelePresence Video Communication Server Control

s	tatus	System	Configuration	Application	s Users	Maintenance		(2) Help. Col Logout
С	reate	transform	n					You are here: Configuration > Dial plan > Transforms > Create transform
	Configu	ration						
	Priority				1	۲		
	Descript	ion			Tmasfor	m to strip domain from ip-address calls		
	Pattern t	уре			Regex	• (j)		
	Pattern	atring			★ (.*)\.(.*)\.	(.*)\.(.*)@vcs.domain	۲	
	Pattern I	behavior			Replac	• • •		
	Replace	string			\1.\2.\3\/	4	۲	
	State				Enable	d 📫 👔		

Create transform Cancel

No VCS Control / Expressway-C, você precisa de uma regra de pesquisa que envie a chamada para o VCS Expressway / Expressway-E quando um endereço IP é discado.

Escolha Configuration > Dial Plan > Search Rules e clique em New.

lı. C	CISCO Cisco TelePresence Video Communication Server Control													
Statu	Status System Configuration Applications Users Maintenance (2) Help. 🕞 Logout													
Sea	Search rules You are here: Configuration + Dial plan + Search rules													
	Priority	Rule name	Protocol	Source	Authentication re	boriup	Mode	Pattern type	Pattern string	Pattern behavior	On match	Target	State	Actions
	50	LocalZoneMatch	Any	Any	No		Any alias				Continue	Loca/Zone	 Enabled 	View/Edit Clone
New	Delete	Enable Disab	le Selec	tal Ur	select all					Search rules	are applied in	n priority orde	ar, with 1 being	the highest priority

Crie essa regra de pesquisa em direção ao VCS Expressway / Expressway-E.

CISCO Cisco TelePresence Video Com	munication Server Control	
Status System Configuration Applications	Users Maintenance	2 Help. 😔 Lagout
Edit search rule		You are here: Configuration + Dial plan + Search rules + Edit search rule
Configuration		
Rule name	Dial IP Address search rule	
Description		
Priority	• 10 (1)	
Protocol	Any 🗘 👔	
Source	Any 🗘 👔	
Request must be authenticated	No :	
Mode	Any IP address 🕴 👔	
On successful match	Stop 🔹 👔	
Target	Traversal Client zone B2B	
State	Enabled ;	

Save Delete Cancel

Opção 2 - Transforme o endereço IP em uma string

No CUCM, adicione um padrão de rota para enviar chamadas com o padrão !*!*!*! para o tronco

VCS Control / Expressway-C.

Escolha Roteamento de chamada > Rota/busca > Padrão de rota e clique em Adicionar novo.

cisco	Cisco U	nified CM A	dministration						Navigation admin	Cisco S	Unified CM	Administrati mentation	an About	: 6	Go gout
System +	Cell Routing +	Media Resources	 Advanced Features + 	Device +	Application +	User Manag	jement 👻 🗌	Bulk Administrati	ion 👻 Help	• •					
Find and I	Find and List Route Patterns														
🕂 Add No	Add New														
-Status () 0 rec	-Status														
Route Pa	atterns											Rows	per Page	50	:)
Find Route	Find Route Patterns where Pattern * begins with * Find Clear Filter 🔶 📼														
	No active query. Please enter your search criteria using the options above.														
Add Nev	v														

Adicione um novo padrão de rota como mostrado aqui.

Padrão de rota: !*!*!*

ahaha	Cisco Unifie	d CM Ad	ministration				N	avigation	Cisco Unified CM /	Administratio	n	÷ Go
cisco	For Cisco Unified Co	ommunication	s Solutions					admin	Search Docum	entation	About	Logout
System +	Call Routing + Media	Resources -	Advanced Features +	Device +	Application +	User Management 👻	Bulk Administration	+ Help	•			
Route Pat	tern Configuration								Related Links	Back To	Find/List	÷ 😡
Save	Save											
- Status												
i) Stat.	3 Status: Ready											
-Pattern D	Definition											
Route Pat	tern *		1414141									- 11
Route Par	tition		< None >			÷						
Descriptio	n											
Numberin	g Plan		Not Selected			+						
Route Filt	er		< None >			\$						
NLPP Prec	edence*		Default			4						
Apply	Call Blocking Percentag	e										
Resource	Priority Namespace Net	work Domain	< None >			\$						
Route Clas	ss *		Default			\$						
Gateway/I	Route List*		VCS_trunk			÷ (Edit)						
Route Opt	tion		Route this pattern									
			Block this pattern	No Error		÷						
Call Class	ification*	OffNet			\$							
External C	Call Control Profile	< None >			\$							
Allow	Device Override 🗹 Pro	vide Outside D	Nal Tone OAllow Ove	rlap Sendir	ng 🖂 Urgent Pi	riority						
Requir	e Forced Authorization	Code										
Authorizat	tion Level*	0										
Requir	e Client Matter Code											

Note: O !*!*!* pode causar atrasos no processamento de outros Padrões de Rota, portanto, é preciso ter cuidado ao usar esse padrão. Uma boa maneira seria colocar esse padrão de rota em uma partição separada e ter apenas os endpoints que precisam discar endereços IP e acessar essa partição .

No VCS Control / Expressway-C você precisa de uma transformação que modifique o alias com "*" para "." quando um endereço IP é discado.

Escolha Configuration > Dial Plan > Transforms e clique em New.

ili Cis	CO Ciso	co TelePrese	nce Video Com	munication Server (Control				
Status	System	Configuration	Applications	Users Maintenance	e				200
Trans	forms						You are here: Configurati	on • Dial plan • Tra	nsforms
_	Priority 💌	State	Description	Pattern	Туре	Behavior	Replace	Actions	
New	Delete	Disable	Select all Unsele	ect all		Transforms are app	lied in priority order, with	I being the highest	priority

Crie a transformação conforme mostrado aqui.

String de padrão: (\d\d?\d?)(*)(\d\d?\d?)(*)(\d\d?\d?)(*)(\d\d?\d?)(.*)

Substituir string: \1.\3.\5.\7

tus System Configuration Applica	tions Users Maintenance ?
eate transform	You are here: Configuration * Dial plan * Transforms * Create trans
Configuration	
riority	1
escription	Transform to modify * to . for ip-address dialing.
attern type	Regex : ()
attern string	(d/d?/d?)(/*)(/d/d?/d?)(/*)(/d/d?/d?)(/*)(/d/d?/d?)(.*)
attern behavior	(Replace : i)
Replace string	ML/3L/5L/7

Create transform Cancel

No VCS Control / Expressway-C, você precisa de uma regra de pesquisa que envie a chamada para o VCS Expressway / Expressway-E quando um endereço IP é discado.

Escolha Configuration > Dial Plan > Search Rules e clique em New.

ul) CIS	CISCO Cisco TelePresence Video Communication Server Control													
Status	Syste	em Configur	ation	Applicatio	ons Users	Mainte	nance						3	Help. 😔 Logout
Sear	ch rule	5									You a	re here: Conf	Iguration • Dia	il plan • Search rules
	Priority	Rule name	Protocol	Source	Authentication	required	Mode	Pattern type	Pattern string	Pattern behavior	On match	Target	State	Actions
	50	LocalZoneMatch	Any	Any	No		Any alias				Continue	LocalZone	 Enabled 	View/Edit Clone
New	Delete	Enable Disab	le Selec	tal Ur	select all					Search rules	are applied i	n priority orde	ar, with 1 being	the highest priority

Crie essa regra de pesquisa em direção ao VCS Expressway / Expressway-E.

սիսիս	
cisco	Cisco TelePresence Video Communication Server Control

Status	System	Configuration	Applications	Users Maintenance	? Help. I Logout
Edit se	earch rule				You are here: Configuration + Dial plan + Search rules + Edit search rule
Config	juration				
Rule n	ame			Dial IP Address search rule	<u>b</u>
Descrip	ption				D
Priority	1			• 10 (i)	
Protoc	ol			Any 🗧 👔	
Source	,			Any :	
Reque	st must be authority	enticated		No 🗘 👔	
Mode				Any IP address 🛟	
On suc	coessful match			Stop 🗘 🧃	
Target				Traversal Client zone B2B	
State				Enabled +	

Save	Delete	Cancel

Note: Se o modo SIP UDP estiver ativado, o VCS Expressway / Expressway-E iniciará a chamada SIP como uma chamada nativa primeiro. Caso o dispositivo de destino não responda ao convite SIP, o VCS Expressway / Expressway-E continua a executar a chamada SIP UDP até o tempo limite de negociação de chamada padrão (aproximadamente 32 segundos). Em seguida, ele retorna a uma chamada de entrelaçamento H.323 como comportamento projetado.

Verificar

Use esta seção para confirmar se a sua configuração funciona corretamente.

Depois de concluir as etapas anteriores, disque o endereço IP como uma string ou o endereço IP com o domínio anexado (isso depende da opção de configuração selecionada) e veja se a chamada para a extremidade oposta funciona.

Troubleshoot

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

Colete registros detalhados de SDI/SDL (System Diagnostic Interface / Signal Distribution Layer) do CUCM e registros de diagnóstico de "nível de depuração" do VCS-Control / Expressway-C e VCS-Expressway / Expressway-E. Forneça esses registros ao Cisco Technical Assistance Center (TAC) para análise se a chamada não funcionar depois que as etapas de configuração anteriores forem concluídas.