# RTMT上SIP呼叫流分析方法

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### 简介

本文档介绍在思科实时监控工具(RTMT)上查看SIPc(会话发起协议)呼叫的呼叫流和信令的过程 ,其中RTMT是分析SIP呼叫的呼叫流的快速而简单的工具。

### 先决条件

#### 要求

Cisco 建议您了解以下主题:

- 思科统一通信管理器 (CUCM)
- RTMT

#### 使用的组件

本文档中的信息基于RTMT版本11.5。

本文档中的信息是从特定实验环境中的设备和应用程序创建的。本文档中使用的所有设备和应用程 序都以清除(默认)配置启动。如果您的网络处于活动状态,请确保您了解任何操作的潜在影响。

### 步骤

步骤1.在RTMT上,导航到System > Voice/Video,如图所示。



#### 步骤2.在SIP活动下,导航至Session trace log view > Real Time data。

Eile System Voice/Video Analys	sis	Manager IM and Presence Ed	it <u>W</u> indow A	pplication Help									
Real Time Monitoring To	00	For Cisco Unified Communications	olutions										
System	•	Real Time Data											X
Voiceālādas	<u>اا</u>			Search Criteria								1	
VOICE/VILLEO				Calling Numb	erilini (t		_	Start Time	2018 Au	0.2014-01-32	-		
Voice and video Summary				Calling Numb	Jei/UKI			Start Time	2010-40	9-20 14:01:02			
CallProcess				Called Numb	er/URI "			Duration	30	mins			
Call Activity									[				
Gateway Activity								Time Zone	(GMT+5	30)India Standard Time-As	iia/Calcutta 🔹		
Trunk Activity							Dur						
							Run						
	ΪĹ	Start Time	C	Illing DN	Orig Called DN		Final Ca	alled DN		Calling Device Name	Called Dev	ice Name	Termination Cause Code
2: Session Trace Log View		018/08/20 14:28:07.887	3000	July Dit	8851	885	1		SEP74	A02FC09CDF	SEPF8A5C59E112	16	(16) Normal call clearing. Expla
Real Time Data	8												
Open from Local Disk													
Called Party Tracing													
Device													
- A Device Summary													
- 🛺 Device Search													
- A Phone Summary													
Service													
Cisco TFTP													
- 🎬 Heartbeat													
A Database Summary													
сп													
- 🔃 CTI Manager													
CTI Search													
Report													
Learned Pattern													
SAF Forwarders													
Intercompany Media Services													
AnalysisManager					r	Include S	SIP Message	1	Frace Call	1			

步骤3.在"搜索条件"下**,指定主叫号码、被叫号码、开始时**间和**持续**时间,然后单击运行,如图所示

0

File System Voice/Video Analys	isManager IM and Presence Edit Window Application H	elp			
Real Time Monitoring To	O For Cisco Unified Communications Solutions				
System	🔲 🗖 Real Time Data				X
Voice/Video	Search Cri	teria 🖉			
Voice and Video Summary	Calling	Number/URI *	Start Time	2018-Aug-20 14:01:32 👻	
Voice and Video Summary					
CallProcess	Called N	Number/URI *	Duration	30 mins	
Call Activity			Time Zone	(GMT+5:30)India Standard Time-Asia/Calcutta	
- 💏 Gateway Activity				toni orothian orangara fino fiona cardana	
Trunk Activity		Run			
- 📰 SDL Queue	AT.				
- SIP Activity	Collecting session information from node cucm-115				
Session Trace Log View					
– 🌉 Real Time Data		Collecting session information		X	
Open from Local Disk					
Called Party Tracing		Collecting session information			
Device		Collecting session information from a	odo(n)		
Device Summary		conecting session mornation norm	1046(3)		
- 👍 Device Search		Cancel			
- In Phone Summary					
Service					
- 🙀 Heartbeat					
Database Summary					
CTI Manager					
CTI Search					
Report					
Learned Pattern					
SAF Forwarders					
Intercompany Media Services					
AnalysisManager					
IM and Presence					

步骤4.选择所需的呼叫,然后时钟跟踪**呼叫**。如果要查看SIP信令和**SDP消**息,必须选中包含SIP消 息的复选框,如图所示。

<u>File System Voice/Video Analys</u>	jle System Voice/Video AnalysisManager IIII and Presence Edit Window Application Help										
Real Time Monitoring Tool For Clace United Communications Solutions											
System	1	Real Time Data									X
Voice/Video				Search Criteria				[			
Voice and Video Summary				Calling Number/URI	•		Start Time	2018-Aug-20 14:01:32	•		
Voice and Video Summary				Called Number/URI	*		Duration	30 mins			
CallProcess											
Call Activity							Time Zone	(GMT+5:30)India Standard Time-	Asia/Calcutta 🔻		
Gateway Activity											
Trunk Activity						Run					
SDL Queue	F										
SIP Activity		Start Time 2000	Calli	ng DN 9951	Orig Called DN	Final Cal	led DN	Calling Device Name	Called Devi	ice Name	Termination Cause Code
Session Trace Log View	F	01010012014.20.07.007	,	0031		0001		SEP 14A02P COBCDP	SEPTORSO SE TIZ	.0	(10) Normal call cleaning. Expla
Real Time Data											
Open from Local Disk											
Device											
- Cevice Summary											
Device Search											
Phone Summary											
Service											
Cisco TFTP											
- 🙀 Heartbeat											
Database Summary											
сп											
CTI Manager											
CTI Search											
Report											
Learned Pattern											
SAF Forwarders											
Intercompany Media Services											
AnalysisManager					🗹 Inc	lude SIP Message	Т	race Call			

步骤5.您可以在"呼叫流程图"部分下查看整个呼叫流程,并**查看与任**何特定SIP消息相关的日志,单 击该日志。

🔄 Analyze Call Diagram			×				
Call Flow Diagram Message Detail	S						
							X
[SEP74A02FC09CDF]		[SEPF8A5	C59E1126]				
10.106.99.230	10.106.99.1	199 10.106	.99.236	Start Time	2018-Aug-20 14:01:32	•	
	(1) INVITE			Duration	30 mins		
	[2]: 100 Trying						
				Time Zone	(GM1+5:30)India Standard Time-As	a/Calcutta	
	-	ot mane					
	-	[4]: 100 Trying					
		(5): 180 Ringing		alled DN	SEP74A02FC09CDF	SEPF8A5C59E1126	(16) Normal call clearing. Expla
	[6]: 180 Ringing						
-		171-000-04/					
	•	[r]; 200 OK					
		[8]: ACK					
	[9]: 200 OK						
1	(10): ACK		A 1				
		MAL DVE					
	-	(ii) bie					
	[12]: BYE						
		1131 200 OK					
	Previous Messages Disp	laying 14 messages. Next Messa	ages				
	Sa	ve Close					
SAF Forwarders							
AnalysisManager			Include SIP Message	П	race Call		
IM and Presence							

步骤6.特定消息的详细信令显示在"消息详细**信息"**部分下,要导航回呼叫流,请单击"**呼叫流图"**。要保存特定呼叫的SIP日志,请点击**Save**,如图所示。

Analyze Call Diagram	3			
View Message Details View Detailed SIP Message View Message in Log File				X
Message Details SENDER: [SEP74A02FC09CDF] 10.106.99.230 GUID: 74a02fc0-9cdf000b-365f85cd-1a27cd87@10.106.99.230 MSG_LABEL: INVITE RECEIVER: 10.106.99.199 MAC_ADDRESS: SEP74A02FC09CDF	Start Tin Duration Time Zon	ne 2018.Aug-20 14:01:32 30 mins ne (GMT+5:30)India Standard Tim	▼ e-Asia/Calcutta ▼	
NSGTAG: 513052 MSG_TYPE: UCM_CTRACE CORRELATIONID: 1,100,14,42786.2361'10.106.99.230'* TIMESTAMP: 2018/08/20 14/28/07.508 Detailed Sip Message	alled DN	Calling Device Name SEP74A02FC09CDF	Called Device Name SEPF8A5C59E1126	Termination Cause Code (16) Normal call clearing. Expla
INVITE sip \$851@10.106.99.199;user=phone SIP/2.0 Via: SIP2.0rCP 10.106.99.230.49491;branch=25bG4bK288573e From: * phone3000' < sip.3000@10.106.99.199>; tag=74a02fc09cdf0bcc1744debc-238adc95 To < sip \$851@10.106.99.199> Call:ID; 74a02fc0-9cdf000b-365f85cd-1a27ed87@10.106.99.230 Max-Forwards: 70 Session-ID: 0b9e958a00105000a00074a02fc09cdf;remote=000000000000000000000000000000000000				
Previous Messages Displaying 14 messages Next Messages Save Close				
AnalysisManager	sage	Trace Call		

步骤7.指定目标位置,如图所示,单击"保**存"**。

Analyze Call Diagram	
View Message Details View Detailed SIP Message View Message in Log File	
Message Details       SENDER: 10.106.99.199       GUID: 74a02fc0-9cdf000b-3       MSG_LABEL: 180 Ranging       RCCITVE: ISSP74002760       MSGTAG: 515037       MSG_TAG: 515037       MSG_TAG: 515037       MSG_TAG: 515037       Detailed Sip Message       SIP:2.0 180 Ringing       Via: SIP: 2.07 180 08:20 14       Detailed Sip Message       SIP:2.0 180 Ringing       Via: SIP: 2.01 180 Ringing       Row: Row Color Of Via: Sip Ringing       Mow: Events: presence       Save       Save     Close </th <th>Start Time     2018.Aug-20 14:01:32       Duration     30     mins       Time Zone     (GMT+5:30)India Standard Time-Asia/Calcutta     •       alled DN     Calling Device Name     Called Device Name     Termination Cause Code       sEP74A02FC09CDF     SEPF8A5C59E1126     (16) Normal call clearing. Expla</th>	Start Time     2018.Aug-20 14:01:32       Duration     30     mins       Time Zone     (GMT+5:30)India Standard Time-Asia/Calcutta     •       alled DN     Calling Device Name     Called Device Name     Termination Cause Code       sEP74A02FC09CDF     SEPF8A5C59E1126     (16) Normal call clearing. Expla
AnalysisManager Izi Include SIP Messag	e Trace Call

## 验证

当前没有可用于此配置的验证过程。

### 故障排除

目前没有针对此配置的故障排除信息。