# RTMTでのSIPコールのコールフローを分析する 手順

## 内容

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### 概要

このドキュメントでは、Cisco Real Time Monitoring Tool(RTMT)でSIPc(Session initiation protocol)コールのコールフローとシグナリングを確認する手順について説明します。RTMTは、SIPコールのコールフローを分析するための迅速で簡単なツールです。

# 前提条件

#### 要件

次の項目に関する知識があることが推奨されます。

• Cisco Unified Communications Manager ( CUCM )

• RTMT

#### 使用するコンポーネント

このドキュメントの情報は、RTMTバージョン11.5に基づくものです。

このドキュメントの情報は、特定のラボ環境のデバイスとアプリケーションから作成されたもの です。このドキュメントで使用するすべてのデバイスとアプリケーションは、クリア(デフォル ト)設定から開始されています。ネットワークが稼働中の場合は、どのようなアクションが及ぼ す潜在的な影響を確実に理解しておいてください。

### 手順

ステップ1:図に示すように、RTMTで[**System**] > [**Voice/Video**]に移動します。



#### ステップ2:[SIP activity]で、[Session trace log view] > [Real Time data]に移動します。

Elle System Voice/Video AnalysisManager III and Presence Edit Window Application Help																
Real Time Monitoring Tool For Cisco Unified Communications Solutions																
System		🔄 Real Time Data														×
VoiceMideo	i۱			ſ	Search Criteria									1		
Voice/Video					Calling Numbo	-1101		_		Start Timo	2018-Aug-20 14:01:32		•			
Voice and Video Summary					Calling Numbe	I/ORI				Start Time	Loronay LornonoL					
CallProcess					Called Number	/URI	•			Duration	30 r	nins				
- 2 Call Activity										Time Zone	(GMT+5:30)India Stand	ard Time As	ia/Calcutta 🔻			
Gateway Activity										Time Lone	(omr - 5.50)maia Stand	uru mine-As	a curcuttu			
- Trunk Activity									Run							
- SDL Queue		-														
- 2 SIP Activity		Start Time		Calli	ing DN		Orig Called DN		Final	Called DN	Calling Device	Name	Called Dev	ice Name	Termination Cause Code	
P Session Trace Log View	2	2018/08/20 14:28:07.887	3000			8851		8851			SEP74A02FC09CDF		SEPF8A5C59E112	26	(16) Normal call clearing. Exp	la
– 🌏 Real Time Data																
Open from Local Disk																
Called Party Tracing																
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Report																
- 📕 Learned Pattern																
SAF Forwarders																
Intercompany Media Services																
AnalysisManager							⊮ Inc	lude SIP I	Messag	e Tr	race Call					

ステップ3:[Search Criteria]で、発信者番号、着信者番号、開始時刻**と継続時間を指定し**て、 [**Run**]をクリックします(図を参照)。

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					
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Call Activity			Time Zone	(GMT+5:30)India Standard Time-Asia/Calcutta	
- 💏 Gateway Activity				tome clockman clanders inno richa 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		collecting 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					

ステップ4:必要なコールを選択し、トレース呼び出しをク**ロックします**。SIPシグナリングと SDPメッセージを表示する場合は、**図に示す[SIPメッセージを含め**る]のチェックボックスをオン にする必要があります。

Real Time Monitoring Tool     *** Cercl builded Commutations Studieds       System     Image: Stat Adulty       *** Cercl builded Stateses     Satch C filteria       *** Cercl builded Stateses     Calling Div       *** Cercl builded Stateses     Satch C filteria       *** Cercl builded Stateses     Calling Div       *** Cercl builded Stateses     Calling Div       **** Cercl builded Stateses     Calling Div       ***** Cercl builded Stateses     Calling Div       ************************************	<u>File System Voice/Video Analys</u>	isManager IM and Presence Edi	t Window Application	Help					
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P Sersion Trace Log View     Poils08/20 14/28/07/887     000     8851     B851     SEP74A02FC09CDF     SEPF8A5C59E1126     (16) Normal call clearing. Expla.       P Real Time Data Opon from Local Disk Called Party Tracing     Device Summary     Device Search     Phone Summary       P None Summary     Service     Cisco TFTP     Heartheat       P database Summary     Database Summary       CTI     CTI Manager       CTI     Leaned Pattern Intercompary Medi Services	- SIP Activity	Start Time	Calling DN	Orig Ca	alled DN Final C	alled DN	Calling Device Name	Called Device Name	Termination Cause Code
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Caled Pary Tracing Device Summary Device Search Phone Summary Service Clisco TFTP Heatbeat AnalysisManager AnalysisManager	- 🎥 Real Time Data								
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AnalysisManager	Service								
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Report Learned Pattern SAF Forwarders Intercompany Media Services AnalysisManager	CTI Search								
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E incidue sir message liface call	AnalysisManager				Include SIP Message	Т	ace Call		

ステップ5:「コールフロー図」セクションの下にコールフロー全体を表示**し、特定のSIPメッセー** ジに関連するログを表示すると、そのメッセージをクリックします。

🖻 Analyze Call Diagram			×				
Call Flow Diagram Message Details							
							X
[SEP74A02FC09CDF]		[SEPF8A5C	C59E1126]				
10.106.99.230	10.106.99.199	10.106.9	99.236	Start Time	2018-Aug-20 14:01:32	•	
<u> </u>	1) INVITE			Duration	30 mins		
[2]	100 Trying						
· · · · · · · · · · · · · · · · · · ·				Time Zone	(GM1+5:30)India Standard Time-As	aa/Calcutta	
	<u>[3</u>	NVIIE +					
	(4):1	00 Trying					
	[5]: 1	80 Ringing		alled DN	Calling Device Name SEP74A02FC09CDF	Called Device Name SEPF8A5C59E1126	(16) Normal call clearing. Expla
161	180 Rinaina						
· · · · · · · · · · · · · · · · · · ·							
	< <u>(7)</u>	200 OK					
	[8	) ACK					
	3): 200 OK						
	101 ACK						
	<u>۳</u>	1) BYE					
	12): BYE						
		200 OK					
Pre	evious Messages Displaying 14 mess	ages. Next Messag	ges				
	Save Close						
SAF Forwarders							
AnalysisManager			Include SIP Message	П	race Call		
IM and Presence							

ステップ6:特定のメッセージの詳細なシグナリングは、[メッセージの詳細(Message details)]セ クションに表示され、コールフローに戻るには、[コールフロー図(Call flow diagram)]をクリック します。特定のコールのSIPログを保存するには、図に示すように[Save]をクリックします。

🖳 Analyze Call Diagram		×				
Call Flow Diagram Message Det	talis					
View Message Details		- 1				,,
View Message in Log File		- 1				×
Message Details SENDER: [SEP74A02FC09CDF] 1 GUID: 74a02fc0-9cdf000b-365f85 MSG_LABEL: INVITE RECEIVER: 10.106.99.199	10.106.99.230 5cd-1a27ed87@10.106.99.230		Start Time Duration Time Zone	2018-Aug-20 14:01:32 30 mins (GMT+5:30)India Standard Time-As	▼ sia/Caicutta ▼	
MAC_ADDRESS: SEP74A02FC05 MSGTAG: 515052 MSG_TYPE: UCM_CTRACE CORRELATIONID: 1,100,14,427	9CDF 786.2361^10.106.99.230**		alled DN	Calling Device Name SEP74A02FC09CDF	Called Device Name SEPF8A5C59E1126	Termination Cause Code (16) Normal call clearing. Expla
TIMESTAMP: 2018/08/20 14:28:07	7.508					
Detailed Sip Message           INVITE sip.8851@10.106.99.199.7, Viz SIP.2.0.TCP 10.106.99.230.40           From: * phone3000* < sip.200.2011           Toc < sip.8812[01.106.99.199>           Call-ID: 74a02fc0-9cdf000b-365f8           Max-Forwards: 70           Session-ID: 008e9538a00105000400           Date: Mon. 20 Aug 2018 08:58:10           Cise: CB8845(13.11           Hore: Anome Cises CB8845(13.11	user=phone SIP/2.0 0491;branch=29hG4bK2888573e 0.106.99.199>: rag=74a02tc09cdf0bcc1744debc-238adc95 15cd-1a27ed87@10.106.99.230 0074a02tc09cdf;remote=000000000000000000000000000000000000	×				
SAF Forwarders						
AnalysisManager	✓ Include SIP	Messag	je T	race Call		
IM and Presence		_				

ステップ7:ターゲットの場所を指定し、図に示すように[Save]をクリックします。

Analyze Call Diagram	
View Message Details View Detailed SIP Message View Message in Log File	
Message nLog Fix Message nLog Fix Message nLog Fix Message Details SENDER: 10.106.99.199 GUID: 7402(Co-9edf000-5) MSG_LABEL: 180 Ringing RECEIVER: (SEP74A02FC0 MAC_ADDRESS: SEP740) MSG_TAG: 515057 MSG_TAG: 515057 MSG_TAG: S15057 MSG_TAG: S15057 MSG_TAG: S1007 Detailed Sip Message SIP2.0 110 NITIE Detailed Sip Message SIP2.0 110 Nitig 1 Detailed Sip Message SIP2.0	Start Time Z018-Aug-20 14:01:32  Duration 30 mins Time Zone (GMT+5:30)India Standard Time-Asial/Calcutta  alled DN Calling Device Name Called Device Name Termination Cause Code SEP74A02FC09CDF SEPF8A5C59E1126 (16) Normal call clearing. Expla
Previous Messages Displaying 14 messages. Next Messages	
SAF Forwarders Intercompany Media Services           AnalysisManager           M and Presence	sage Trace Call

# 確認

現在、この設定に使用できる確認手順はありません。

# トラブルシュート

現在、この設定に関する特定のトラブルシューティング情報はありません。