

If this is your First-Time-Use of MAPSTM SIP application, then we recommend you to follow all the steps explained in MAPS-SIP-Quick-Install-Guide to install MAPSTM SIP application before proceeding with the steps below.

Pre-requisites

The Quick check-out procedure explained in this document requires <u>a PC with 2 NIC cards</u> to perform loopback testing using a single MAPSTM SIP application.

If the PC has only one NIC card, then the MAPSTM SIP can be tested against any DUT (fax machine) in the network in a similar manner, with destination IP address and port set to that of the DUT's.

We assume that the following purchased licenses are installed on the test PC following the procedure as explained in the <u>MAPSTM</u> <u>SIP Quick Install Guide</u>.

- PKS120 (MAPS for SIP)
- PKS102 (PacketGen RTP Soft Core)

Licenses for T.38 Fax Simulation

PKS211 (T.38 Fax Simulation) *

Licenses for T.30 Pass Through Fax Simulation

- PKS200 (RTP Pass Through Fax Emulation) * Additionally requires one of the following licenses as per the number of sessions requirement
 - PKS202 2 Fax Ports
 - PKS203 8 Fax Ports
 - PKS204 30 Fax Ports
 - PKS205 60 Fax Ports
 - o PKS206 120 Fax Ports

*Note: Additional licenses may be required for optional applications. Please verify that all licenses purchased are installed.

Quick Check Out Procedure

Simulation of T.30 pass through mode fax and T.38 fax (UDPTL) can be verified by configuring MAPSTM SIP application. You may prepare <u>a single PC with 2 NIC cards</u>, one as source and other as destination. Ensure that both NIC cards are within the same subnet, assigned proper free IP addresses available in the subnet, and connected to a switch. If the system is connected to a LAN, contact your system administrator to avoid IP address conflicts before you perform the steps below. If the PC has only one NIC card, then the MAPSTM SIP can be tested against any DUT (fax machine) in the network in a similar manner, with destination IP address and port set to that of the DUT's.

For illustration purposes, we assume that the IP address for the NIC cards are configured as 192.xx.xx.213 (NIC #1) and 192.xx.xx.212 (NIC #2). Invoke two instances of **MAPS[™] SIP** application.

The configurations below allow **first instance** of MAPSTM SIP to use **NIC 1** IP address as source and the **NIC 2** IP address as destination endpoint. Similarly, the **second instance** of MAPSTM SIP to use **NIC 2** IP address as source and the **NIC 1** IP address as destination endpoint to simulate T.38/T.30 pass through fax over successfully established SIP calls.

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First MAPS[™] SIP instance as UAS



- Right-click on MAPS-SIP short-cut icon MAPS-SIP created on the desktop and select 'Run as Administrator'. This instance of MAPS[™] is configured for *Call Reception*.
- By default, <u>Testbed Setup</u> window is displayed, loaded with TestBedDefault configuration. Verify the following settings.
 Select End User Configuration parameter and change the profile name to UserAgent_Profiles2.xml
 - Set the RTP Core IP address to the NIC #1 IP Address
 - of the system on which the RTP Core is invoked.
 - > By default, **IPSpoofing** option is disabled
 - Click Save As option and save save the testbed setup as TestBedDefault_2 configuration file.

GL MAPS (Message Automation Protoco	ol Simulation) (SIP IETF) - [Test	bed Setup - TestBedDefault_2]
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 End User Configuration 	UserAgent_Profiles2.xml	
 RTP Core IP Address 	192.168.12.213	
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- From MAPS-SIP main window, select Editor → Profile Editor. Profile Editor window is invoked. Profile Editor window is invoked loaded with default UserAgent_Profiles. From the left pane, choose Profile0001 profile, and verify the settings.
- Verify the settings in **Profile0001** profile:
 - ➢ Set Call Type → Audio Call
 - ➢ Edit Contact Address → 0001@192.168.12.213 (Enter the source NIC 1 IP address as SIP URI here)
 - ➢ Edit Address of Record → 0001@192.168.12.213 (Enter the source NIC 1 IP address as SIP URI here)
 - ➢ Edit *To Address* → 0001@192.168.12.212 (Enter the destination NIC 2 IP address as SIP URI here)
 - ➢ Edit *RTP IP Address* → 192.168.12.213 (Enter the source NIC 1 IP address here)
 - Scroll down to Codec Options and Traffic Configurations and select Codec as PCMU.
 - Set Traffic Type to Auto Traffic T38 Fax type [Note: Set to Auto Traffic Fax type for T.30 pass through Fax Simulation]
 - Set *Traffic Direction* to *RxOnly*.
 - By default, *Traffic Profile Name* is set to *Profile0001*.



• Click Save As save the profile as UserAgent_Profiles2 file.



• On the same MAPS[™] SIP instance, from **Configuration** → invoke **Incoming Call Handler Configuration** window. Verify that the **SipCallControl.gls** script is loaded against the **INVITE** message. Close the window.

<u>GL</u>	MAPS (Message Auto	mation Protocol Simulation) (SIP IETI	TF) - [Incoming Call Handlers Configuration - default]	_ 🗆 🗙
	<u>Configurations</u> E <u>m</u> ulator	<u>R</u> eports <u>E</u> ditor <u>D</u> ebug Tools <u>W</u> indows	s <u>H</u> elp	_ & ×
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[Message Name	Script Name	Scripts	
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	SUBSCRIBE	SipSubscribeControl.gls		

Second MAPS[™] SIP Instance as UAC



- By default, **Testbed Setup** window is displayed loaded with **TestBedDefault** configuration file. Verify the following settings:
 - Select End User Configuration parameter and change the profile name to UserAgent_Profiles1.xml.
 - Set the RTP Core IP address to NIC #2 IP Address of the system on which the RTP Core should be invoked.
 - By default, IPSpoofing option is disabled.
- 🔐 MAPS (Message Automation Protocol Simulation) (SIP IETF) [Testbed Setup TestBedDefault_1] Configurations Emulator Reports Editor Debug Tools Windows Help а. ò ò 🕹 💂 o 🖉 🏎 Ш. ٠Ý ? 1.0 Config Value DefaultProfile SIP Configuration End User Confi Enter Char RTP Core IP Address 192.168.12.212 UserAgent_Profiles1.xml IPSpoofing Disable
- Click Save As option and save the testbed setup as TestBedDefault_1.xml file.
- From MAPS-SIP main window, select Editor → Profile Editor. Profile Editor window is invoked loaded with default UserAgent_Profiles. From the left pane, choose Profile0001 profile. Verify the following settings:
 - Set Call Type → Audio Call
 - ➢ Edit Contact Address → 0001@192.168.12.212 (Enter the source NIC 2 IP address as SIP URI here)
 - ➢ Edit Address of Record → 0001@192.168.12.212 (Enter the source NIC 2 IP address as SIP URI here)
 - ➢ Edit *To Address* → 0001@192.168.12.213 (Enter the destination NIC 1 IP address as SIP URI here)
 - ➢ Edit *RTP IP Address* → 192.168.12.212 (Enter the source NIC 2 IP address IP Address here)
 - Scroll down to Codec Options and Traffic Configurations and select Codec as PCMU.
 - Set *Traffic Type* to *Auto Traffic T38 Fax* type [Note: Set to



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Auto Traffic Fax type for T.30 pass through Fax Simulation]

- Set *Traffic Direction* to *TxOnly*.
- > By default, *Traffic Profile Name* is set to *Profile0001*.
- Click 🔀 Save As option and save the profile as UserAgent_Profiles1 file. Exit from Profile Editor window.
- Click **Start** button in the testbed setup of both the MAPS[™] instances and wait for the 2 RTP-Core console windows to appear in the taskbar. If the SIP/RTP Core console does not invoke with the MAPS[™] Testbed start-up, refer to **Troubleshoot** section explained in <u>https://www.gl.com/Brochures/Brochures/Installation-Instructions-for-Dongle-Programs.pdf</u>.



• On the second MAPSTM Call generation instance, select **Configurations** menu → **Global Configuration**. Set the **Call Duration in msec** to **120000**, which is required for the test.

GL MAPS (Message Automation Protocol Simula	tion) (SIP IETF) - [Global Configuration - Globalprofile]
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- From the MAPSTM SIP instance configured for call generation, click on *Call Generation* icon on the main window to invoke the *Call Generation* window.
- By default, you will observe call instances loaded with **SipCallControl.gls** and **SipRegistrationControl.gls** scripts and **Profile0001** profile in the Call Generation window.
 - Select the call instance loaded with SipCallControl.gls script and Profile0001 profile and click Start button to execute the script.
 - <u>Note:</u> If the profile is not loaded by default, then the user should double-click under **Profile** column and select **Profile0001** from the drop-down and set it against the script **SipCallControl.gls**.
- Wait till call gets terminated, verify the **Message Sequence Flow** by selecting the call objects at both generation and reception end.
- Select any message in the ladder diagram and observe the respective decode message on the right pane for the respective message.

Note: Uncheck the 'Show Latest' box available in the middle toolbar, to scroll and view the complete message sequence flow.





겠 MAPS (Message Automation Protocol Simulation) (SIP IETF) - [Call Generation - CallGenDefault]								_ 8 >
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16:42:13.135.3531	F	From: 0001 <sip:0001@192.168.12.212>;tag=FromTag_1_18956174-1029-3896</sip:0001@192.168.12.212>						
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Scripts A Message Sequence / Event Config A Script Flow								

T.38 Fax Simulation Call Generation

• The following message sequence is displayed for T.30 pass through fax generation.

MAP5 (Message Automation Protocol Simulation) (SIP IETF) - [Call Generation - CallGenDefault]								_ 8 ×	
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Add Delete Insert Refresh Start Start All Stop V Stop All V Abort Allort All				<u></u>			<u>k</u>		
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16:38:39.142.1603	V M	ia: SIP/2.0/UDP 192.1 ax-Forwards: 70	58.12.212:5060;1	branch=:	z9hG4bK_	4_18742219-	1020-2704		
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180 Binging	F T								
16.38.39.152.5612	c								
200 OK 16:38:39.190.6417									
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V21 Signal Done 16:39-13 147 822	d	=IN IP4 192.168.12.21	2						
CSI/Called Subscriber Identification	t m	=0 0 =audio 1030 RTP/AVP 0	8 101						
16:39:13.147.2981	a	a=rtymap:0 PCNU/8000							
DIS(Digital Identification Signal) 16:39:13.147.4801	a	=rtpmap:101 telephone	-event/8000						
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T.30 Pass Through Fax Simulation Call Generation



• On the first MAPSTM instance main window, click on *Call Reception* $\overset{\text{(s)}}{\longrightarrow}$ icon and observe the calls being received.

Note: Uncheck the 'Show Latest' box available in the middle toolbar, to scroll and view the complete message sequence flow.

P5 (Message a	Automation Protocol Simu	ilation) (SIP IETF) - [Call Recept abua Tools Windows Help	ion]						
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T.38 Fax Simulation Call Reception

• The following message sequence is displayed for T.30 pass through fax reception

Image: System Image: S	IAP5 (Message Automation Protocol Simulation) (SIP IETF) - [Call Reception] Configurations Emulator Reports Editor Debug Tools Windows Help						_ 8 >
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1 SpCallControl gis Provide0001 GLMAPS_3_13742219-1019:2704@132.168.12.212 Stop Fars Session Successful SIP_Terminate. Pass Stop Stop All Abort All Show Records Select Active Call Auto Trash Trash Stop Column Width - Show Latest INVITE Show Latest UT MAPS INVITE 16.38.39.143.9990 INVITE 16.38.39.143.9990 INVITE INVITE INVITE INVITE INVITE 16.38.39.143.9990 INVITE IN	r No Script Name Profile Call Info	Script Execution	Status	Events	Eve	Results	
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180 Ringing 16:38:33:151:8363 200 DK 16:38:33:190:1259 ACK 16:38:33:190:1259 ACK 16:38:33:195:7615 Fax Status:: Recv Fax Stated 16:38:33:195:7615 33600 Rate of V34 selected after MPh exch. 16:39:13:116:8142 CSI[Called Subscriber Identification] 16:39:13:117:348 DIS[Digital Identification Signal] 16:39:13:117.2152 V21 Signal Done 16:39:13:117.410	100 Trying 16:38:39.149.9598	Allow: INVITE, EYE, CANCEL, ACK, INFO, OPTIONS, SUBSCRIBE, NOTIFY, REFER, REGISTER					
200 DK 16:38:33.190.1259 ACK 16:38:33.195.7615 Fax Status :: Reov Fax Stated 16:38:33.195.7615 33600 Rate of V34 selected after MPh exch. 16:39:13.116.8142 CSI[Called Subscriber Identification] 16:39:13.117.348 DIS[Digital Identification Signal] 16:39:13.117.2152 V21 Signal Done 16:39:13.117.4010	180 Ringing 16:38:39.151.8363	To: 0001 <sip:000101< td=""><td></td><td></td><td></td></sip:000101<>					
ACK 16:38:33:190.1259 ACK 16:38:33:190.7259 Fax Status :: Reov Fax Stated 16:38:33:195.7615 S3600 Rate of V34 selected after MPh exch. 16:39:13:116.8142 CSI[Called Subscriber Identification] 16:39:13:116.8142 CSI[Called Subscriber Identification] 16:39:13:117.348 DIS[Digital Identification Signal] 16:39:13:117.2152 V21 Signal Done 16:39:13:117.4100	200 OK	CSeq: 1 INVITE	8/42219-1019-2/040192	. 160. 12. 212			
ACK 16:38:39.195.7615 Content-Type: application/sdp Content-Length: 247 33600 Rate of V34 selected after MPh exch. 16:39:13.116.8142 v=0 0=0001 33852938 33852938 IN IP4 192.168.12.212 s=3TP Call CSI[Called Subsorber Identification] 16:39:13.117.348 s=3TP Call DIS[Digital Identification Signal] 16:39:13.117.2152 a=rtpmap: 0 PCHU/8000 a=tpmap: 0 PCHU/8000 a=tpmap: 0 PCHU/8000 a=tpmap: 0 PCHU/8000	16:38:39.130.1259	Contact: 0001 <sip:0 Supported: 100rel</sip:0 	001@192.168.12.212≻				
Fax Status :: Rev Fax Statud 16:38:38:197:8978 33600 Rate of V34 selected after MPh exch. 16:39:13:116:8142 CSI(Called Subscriber Identification) 16:39:13:117:348 DIS(Digital Identification Signal) 16:39:13:117.2152 V21 Signal Done 16:39:13:117.410	ALK 16:38:39.195.7615	Content-Type: applic	ation/sdp				
33600 Rate of V34 selected after MPh exch. 16.39:13:116.8142 0=0001 33852938 33852938 IN TP4 192.168.12.212 CS([Called Subscriber Identification) 16.39:13:117.348 ==TIN TP4 192.168.12.212 DIS[Digital Identification) 16.39:13:117.2152 ==audio 1030 PTP/AVP 0 8 101 V21 Signal Done 16:39:13:117.4010 ==trpmap: 0 PCHU/8000	Fax Status :: Recv Fax Started 16:38:39.197.8978	Concenc-Bengon: 247					
CSI(Called Subscriber Identification) 16:33:13:116:8142 ==STP Call CSI(Called Subscriber Identification) 16:39:13:117:348 ==STP Call DIS[Digital Identification Signal] 16:39:13:117:2152 ==audio 1030 PTP/AVP 0 8 101 V21 Signal Done 16:39:13:117:4010 ==trpmap: 0 PCHU/8000	33600 Rate of V34 selected after MPh exch.	v=0 o=0001 33852938 3385	2938 IN IP4 192.168.1	2.212			
DIS(Digital Identification Signal) 16:33:13:117.2152 n=audio 1030 RTP/AVP 0 8 101 V21 Signal Done 16:33:13:117.4010 n=trpmap: 0 PCMV/8000 n=trpmap: 0 PCMV/8000	CSI(Called Subscriber Identification) 16:39:13:116:8142	s=SIP Call c=IN IP4 192.168.12.	212				
V21 Signal Done 16:33:13.117.4010 a=rtpmap: 2.9 CMA/8000 a=rtpmap: 10.1 telephone-event/8000	DIS(Digital Identification Signal) 16:39:13.117.2152	a=audio 1030 RTP/AVP 0 8 101 a=rtpnap:0 PPHU/8000					
	V21 Signal Done 16:39:13,117.4010	a=rtpmap:8 PCMA/8000 a=rtpmap:101 telephone-event/8000					
TSI[Transmitting Subscriber Identification]	TSI(Transmitting Subscriber Identification)	a=fmtp:101 0-15					
Th: 33.13.11/bU23	16:39:13:117.6023	a=sendrecv					-
Scripts Message Sequence / Event Confin / Script Flow /	Scripts Message Sequence / Event Config Script Flow	U					

T.30 Pass Through Fax Simulation Call Reception



• The following is the sample **Recorded Fax** (*.tif) file which is saved in the C:**Program Files****GL Communications Inc****MAPS-SIP****FaxFiles****Recv** folder on the MAPSTM SIP call reception side.

Note: Same sample Fax (*.tif) file is transmitted for both T.30 pass through mode and T.38 fax simulation.

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Go Kiss the World – Subroto Bagchi	
This speech was delivered to the Class of 2006 at the IIM, Bangalore on defining success by Subroto Bagchi CEO MindTree.	
I was the last child of a small-time government servant, in a family of five brothers. My earliest memory of my father is as that of a District Employment Officer in Koraput, Orissa. It was, and remains as back of beyond as you can imagine. There was no electricity; no primary school nearby and water did not flow out of a tap. As a result, I did not go to school until the age of eight; I was home-schooled. My father used to get transferred every year. The family belongings fit into the back of a jeep - so the family moved from place to place and without any trouble, my Mother would set up an establishment and get us going. Raised by a widow who had come as a refugee from the then East Bengal, she was a matriculate when she married my Father.	
My parents set the foundation of my life and the value system, which makes me what I am today and largely, defines what success means to me today.	
As District Employment Officer, my father was given a jeep by the government. There was no garage in the Office, so the jeep was parked in our house. My father refused to use it to commute to the office. He told us that the jeep is an expensive resource given by the government- he reiterated to us that it was not "his jeep" but the government's jeep. Insisting that he would use it only to tour the interiors, he would walk to his office on normal days. He also made sure that we never sat in the government jeep - we could sit in it only when it was stationary.	
That was our early childhood lesson in governance - a lesson that corporate managers learn the hard way, some never do.	
The driver of the jeep was treated with respect due to any other member of my Father's office. As small children, we were taught not to call him by his name. We had to use the suffix 'dada' whenever we were to refer to him in public or private. When I grew up to own a car and a driver by the name of Raju was appointed - I repeated the lesson to my two small daughters. They have, as a result, grown up to call Raju, 'Raju Uncle' - very different from many of their friends who refer to their family driver, as 'my driver'. When I hear that term from a school- or college-going person, I cringe.	-
To me, the lesson was significant - you treat small people with more respect than how you treat big people. It is more important to respect your subordinates than your superiors.	
Our day used to start with the family huddling around my Mother's chulha - an earthen fire place she would build at each place of posting where she would cook for the family. There was neither gas, nor electrical stoves. The morning routine started with tea. As the brew was served, Father would ask us to read aloud the editorial page of The Statesman's 'muffosil' edition - delivered one day late. We did not understand much of what we were reading. But the ritual was meant for us to know that the world was larger than Koraput	
Sample Recorded Fax File	

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