

MAPS[™] MEGACO HD (PKS109) Quick Verification Guide

Software and License Installation

*Note1: If you have purchased MAPSTM HD product, you will receive a network appliance with all the necessary PC hardware interfaces, Operating System, required MAPSTM applications, GL's HD NICs, and licenses preinstalled. And therefore, you will need to only plug-in the monitor, and connect the network appliance to the power outlet. Then connect the USB Hardware Dongle you have received with the shipment, and proceed to verification steps.

- NOW PLUG-IN the USB Hardware Dongle to the PC to the USB 2.0 port of your computer. A red light should appear on the dongle indicating that the device is functioning correctly and ready to use.
- You can verify if the purchased licenses are installed. Navigate to C:\Program Files\GL Communications Inc\GLDONGLE directory, execute appl_list.exe and confirm that the following licenses are listed:
 - ➢ PKS122 (MAPS™ MEGACO)
 - PKS102 (RTP Traffic)
 - PKS109 (HD RTP Traffic) **Note2

****Note2:** Additional licenses may be required for optional codecs and other traffic options. Please verify that all licenses purchased are displayed using the **appl_list.exe** utility.

Verification

The configuration explained below allows **MAPSTM MEGACO** application to act as **MGC** (Media Gateway Controller) as well as MG (Media Gateway). This example requires 2 PCs, PC 1 is configured as MGC and PC 2 is configured as MG1 and MG2 to control TGW (Trunking Gateway). MGC accepts registrations from the MG and both the MG1 and MG2 on PC2 will handle the RTP traffic (Auto Traffic Files/Digits/Tones, User Defined Traffic, and IVR).

Functional verification requires Regular PC NIC card and 2 GL's HD cards installed in the MAPS™ HD network appliance.

The regular PC NIC is connected to a managed switch using Ethernet cables as shown in the figure.

The four ports on each of GL's HD cards are connected to the same switch as shown in the figure:

P0, P1, P2, P3 on HD card 1 are connected to switch P4, P5, P6, P7 on HD card 2 are connected to the same switch

Regular NIC is used for Signaling and to invoke RTP cores (communication between MAPSTM and RtpCore) and GL's HD cards are used to pump and receive traffic.



GL's HD card connections verification:

Verify that network cables are properly connected and locked. Also, you can use the monitoring tool (refer to Troubleshoot section) to check the Ethernet links status on GL's HD NIC is UP or DOWN.

For illustration purposes, we assume the IP address of the Regular NIC cards are configured as MGC - 10.xx.xx.34 and MG1 & MG2 - 192.xx.xx.35.

(V) 301-670-4784 (F) 301-670-9187 Web Page: http://www.gl.com/ E-Mail Address: info@gl.com



MAPS[™] MEGACO configured as MGC (PC #1)

- Invoke MAPSTM MEGACO application installed on the PC.
 - The Protocol Selection window is prompted with the following settings:
 - Protocol Standard as MEGACO
 - Protocol Version as IETF
 - Select Node as Media Gateway Controller. Click OK
- From MAPS main menu → click Configurations → select Load Master Configuration option → select MGC-TGW-HD-MasterConfig file.



- Now, in the TestBed window, verify and validate the following parameter settings:
 - > Set Transport Type to SCTP
 - > SCTP or TCP Node Type to Server
 - Set the MGC IP to 10.xx.xx.34 (PC IP address where MGC is running)
 - > Set Media Gateway Type to TGW
 - > Set TGW Interface Type to T1

MG1 (Trunking Gateway 1)

- Verify that the MG IP is set to PC2 (MG1) IP address (Ex: (10.xx.xx.35)
- > Set MG Port to 2944
- > Set MGC Port to 2944

MG2 (Trunking Gateway 2)

- Verify that the MG IP is set to PC2 (MG2) IP address (Ex: (10.xx.xx.35)
- > Set MG Port to 2945
- > Set MGC Port to 2945
- Click Save As button option and save the configurations with TestBedDefault_TGW_MGC-HD.xml filename.
- Select Editor → Profile Editor and the window is invoked displaying TGW_Profiles configuration. Make sure that options are set as shown below.
 - Simulation Type is set to **TDM to RTP**
 - Set MG1 Name as MG1
 - Set MG2 Name as MG2
 - Codec Options as PCMA

e						
MAPS Media Gateway Controller [TestBed	Default_TGW_MGC-HD]					
Configurations Emulator Reports Editor Debug	ug Tools <u>W</u> indows <u>H</u> elp					
🎯 🖉 🍕 🍬 🍾 🔥 🛢 📕 🧭	🔮 📄 👌 😫					
Config	Value					
B MGC Configuration	value					
	SCTR					
SCTD or TCD Node Type	Sonor					
	10 10 10 34					
Media Gateway Type	TGW					
TGW Interface Type	T1					
- RGW Name Pattern	aaln					
-I MG	2					
MG1						
- MG IP Address	10.10.10.35					
- MG Port	2944					
- MGC Port	2944					
- MG Name	MG1					
L RGW Configurations						
 Number of Analog Line 	100					
 Starting Phone Number 	40488429					
L MG 2						
 MG IP Address 	10.10.10.35					
- MG Port	2945					
 MGC Port 	2945					
- MG Name	MG2					
4 RGW Configurations						
- Number of Analog Line	100					
└── Starting Phone Number	40488629					
 Frunking Gateway End User Configuration TGW_Profiles.xml 						
 Residential Gateway End User Configuration 	KGW_Profiles.xml					



Web Page: http://www.gl.com/ E-Mail Address: info@gl.com/



Value

MAPS™ MEGACO configured as MG1 (PC #2)

- Invoke MAPSTM MEGACO application installed on the PC.
 - The Protocol Selection window is prompted with the following settings:
 - Protocol Standard as MEGACO
 - Protocol Version as IETF
 - Select Node as Media Gateway. Click OK
- From MAPS main menu → click Configurations → select Load Master Configuration option → select MG1-MasterConfig_TGW-HD file.

Config

- Now, in the TestBed window, verify and validate the following parameter settings:
 - > Set Enable RTP Simulation to True
 - Set RTP Hardware Interface Type to GL's High Density Interface Card (If you have purchased PKS109 - HD RTP Traffic License)
 - Set the Media IP address same as MG IP address (10.xx.xx.35)
 - Set Transport Type to SCTP
 - Set SCTP or TCP Node Type to Client
 - Set Physical Termination Type to TGW
 - Set the MG IP to 10.xx.xx.35 (PC IP address where MG is running)
 - ➢ Set MG Port to 2944
 - Set the MGC IP address where the MGC is running (10.xx.xx.34)
 - ➢ Set MGC Port to 2944
 - > Set TDM Termination Name to Card/TS
 - Set Number of Cards to 1668 (required to generate 40k calls)
 - > Set TDM Interface Type to T1
 - > Set T1E1 WCS Server Port to 17090

HD RTP Media Configuration

Number of RTP-Cores: Set to 4 and click **Apply**. In this test setup, we are invoking 4 RTP-Cores only.

RTP Core 1 Configurations:

RTP Port Index: Set this to *Port_0::4x1G* Adapter.

RTP Media IP Address: Specify the RTP Core IP address. (Enter the **HD Port1 IP address** here, Ex: 192.168.12.241)

RTP Core 2 Configurations:

RTP Port Index: Set this to *Port_1::4x1G* Adapter. **RTP Media IP Address:** Specify the RTP Core IP address. (Enter the **HD Port2 IP address** here, Ex: 192.168.12.242)

RTP Core 3 Configurations:

RTP Port Index: Set this to *Port_2::4x1G* Adapter.

RTP Media IP Address: Specify the RTP Core IP address. (Enter the HD Port3 IP address here, Ex: 192.168.12.243)

RTP Core 4 Configurations:

RTP Port Index: Set this to *Port_3::4x1G* Adapter.

RTP Media IP Address: Specify the RTP Core IP address. (Enter the HD Port4 IP address here, Ex: 192.168.12.244)

(V) 301-670-4784 (F) 301-670-9187 Web Page: http://www.gl.com/ E-Mail Address: info@gl.com/





MAPSTM MEGACO HD (PKS109) Quick Verification Guide

- > By default, End User Configuration for TGW is set to MG_Profiles.xml
- Click Save As button option and save the configurations with TestBedDefault_TGW_HD_MG1.xml filename.

MAPS™ MEGACO configured as MG2 (PC #2)

- Invoke another instance of MAPSTM MEGACO application installed on the PC.
- The Protocol Selection window is prompted with the following settings:
 - Protocol Standard as MEGACO
 - Protocol Version as IETF
 - Select Node as Media Gateway. Click OK
- From MAPS main menu → click Configurations → select Load Master Configuration option → select MG2-MasterConfig_TGW-HD file.
- Now, in the TestBed window, verify and validate the following parameter settings:
 - > Set Enable RTP Simulation to True
 - Set RTP Hardware Interface Type to GL's High Density Interface Card (If you have purchased PKS109 - HD RTP Traffic License)
 - Set the Media IP address same as MG IP address (10.xx.xx.35)
 - Set Transport Type to SCTP
 - Set SCTP or TCP Node Type to Client
 - Set Physical Termination Type to TGW
 - Set the MG IP to 10.xx.xx.35 (PC IP address where MG is running)
 - > Set **MG Port** to **2945**
 - Set the MGC IP address where the MGC is running (10.xx.xx.34)
 - Set MGC Port to 2945
 - > Set TDM Termination Name to Card/TS
 - Set Number of Cards to 1668 (required to generate 40k calls)
 - > Set TDM Interface Type to T1
 - > Set T1E1 WCS Server Port to 17090

HD RTP Media Configuration

Number of RTP-Cores: Set to 4 and click **Apply**. In this test setup, we are invoking 4 RTP-Cores only.

RTP Core 1 Configurations:

RTP Port Index: Set this to *Port_4::4x1G* Adapter. **RTP Media IP Address:** Specify the RTP Core IP address. (Enter the **HD Port1 IP address** here, Ex: 192.168.12.246)

RTP Core 2 Configurations:

RTP Port Index: Set this to *Port_5::4x1G* Adapter. **RTP Media IP Address:** Specify the RTP Core IP address. (Enter the **HD Port2 IP address** here, Ex: 192.168.12.247)

Config	Value				
MG Configuration					
Fnable RTP Simulation	True				
RTP Hardware Interface Type	GL's High Density Interface Car				
Normal BTP Media Configuration	Ge striigh bensity intenace car				
Media ID Address	10 10 10 35				
	10.10.10.35				
	Client				
Physical Termination Type	Client				
- Physical remination type	1				
	1				
MG ID Address	10 10 10 25				
- Mid IP Address	2045				
	10 10 10 24				
- MIGC IP Address	2045				
- MGC Port	2943				
Physical Termination Parameters					
TDM Configurations	C 1/TC				
- I Divi Termination Name	Card/15				
- Number of Cards	1668				
 Enable TDM Connection 	False				
- IDM Interface Type	11				
- TIEL WCS Server IP Address	0.0.0.0				
□ T1E1 WCS Server Port	17090				
+± Analog Configurations					
Les RTP Configurations					
HID RTP Media Configuration					
4 RTP Cores	4				
- RIP Cores 1					
- RTP Port Index	Port_4::4x1G Adapter				
- RTP Media IP Address	192.168.12.246				
4 Default Gateway Configuration	255 255 255 2				
- Subnet Mask	255.255.255.0				
Gateway IP Address	192.168.12.1				
- RTP Cores 2					
- RTP Port Index	Port_5::4x1G Adapter				
 RTP Media IP Address 	192.168.12.247				
Lei Default Gateway Configuration					
 Subnet Mask 	255.255.255.0				
└── Gateway IP Address	192.168.12.1				
- RTP Cores 3					
- RTP Port Index	Port_6::4x1G Adapter				
 RTP Media IP Address 	192.168.12.248				
Le Default Gateway Configuration					
 Subnet Mask 	255.255.255.0				
Gateway IP Address	192.168.12.1				
L RTP Cores 4					
 RTP Port Index 	Port_7::4x1G Adapter				
 RTP Media IP Address 	192.168.12.249				
L Default Gateway Configuration					
 Subnet Mask 	255.255.255.0				
Gateway IP Address	192.168.12.1				
 Enable Bulk Call for RGW using CSV 	Enable				
 CSV File Name 	RGW_Profiles2.csv				
 End User Configuration for RGW 	RGW_Profiles2.xml				
End User Cinfiguration for TCW/	MG Profiler xml				

(V) 301-670-4784 (F) 301-670-9187 Web Page: http://www.gl.com/ E-Mail Address: info@gl.com



MAPS[™] MEGACO HD (PKS109) Quick Verification Guide

RTP Core 3 Configurations:

RTP Port Index: Set this to *Port_6::4x1G* Adapter. **RTP Media IP Address:** Specify the RTP Core IP address. (Enter the **HD Port3 IP address** here, Ex: 192.168.12.248)

RTP Core 4 Configurations:

RTP Port Index: Set this to *Port_7::4x1G* Adapter.

RTP Media IP Address: Specify the RTP Core IP address. (Enter the **HD Port4 IP address** here, Ex: 192.168.12.249) By default, **End User Configuration for TGW** is set to **MG_Profiles.xml**

- Click Save As button option and save the configurations with **TestBedDefault_TGW_HD_MG2.xml** filename.
- Click Start to start MG1, MG2, and MGC testbed setup on both the PCs. Wait for 8 RTP-Core console windows to appear. If the RTP Core console does not invoke with the MAPSTM TestBed start-up, refer to <u>Troubleshoot</u> section explained in this document.



- On PC2, click Call Reception icon icon on both MG1, MG2 and observe the InitiateServiceHandler.gls script activated in the Call Reception window.
- On PC1 (MGC), from **Emulator→** *Load Generation* from main menu
- By default, *MGCController.gls* script and *TGW* profiles are loaded.
 - Total calls to Generate by default is set to '*', (indicates no limit)
 - Maximum Active calls to 30000.
 - Fixed statistical distribution pattern
 - ➢ Set Call Rate to 250
- Click *Start* button to initiate the bulk call generation.

% Load Generation -	Untitled 🗕 🗖 🗙				
Total Calls To Generate (* indicates no limit) Mas: Active Calls 30000 (Junique Distributions Per Script					
Multi Distributions Statistical Distribution Call Rate Z50					
Scripts MGCController	ProfileExclusive Profiles				
Add Delete	Add Delete				
Days 0 - Hours 0 - Minutes 0 -	Start Time - 00:00:00.000 Pause End Time - 00:00:00.000 Start				

- On both MG1 & MG2 MAPS[™] MEGACO instances, click [≫] icon and open *Call Reception*.
- Observe that the calls are automatically received at the Call Reception (MG1 & MG2) window running the Rx script.
- On this MAPS Megaco HD instance as well, from **Reports** menu → invoke **Statistics** window. Observe the Outgoing and Incoming Call Stats.
- From **Report** menu → invoke **User Defined Statistics** window. Click *lice* icon and select **VoiceQualityStats_HD** configuration, observe the **QoS Statistics**.



MAPS[™] MEGACO HD (PKS109) Quick Verification Guide

8		Statistics	X	
Call Stats Mer	cane State		Reset	
Statistic Name Default	Total Calls Active Calls 10535 2507	Completed Calls Passed Calls Failed Calls 8028 4248 0	Calls/Sec 97	
GL		MAPS (Message Automation Protocol Si	mulation) Media Gateway (MEGACO IETF	- [Ca
Configur	ations E <u>m</u> ulator <u>R</u> eports <u>E</u> dito	r Debug Tools Windows Help		
Q 🖉	🍕 a 🗞 🐞 📁 🍡	🖸 🔮 🚡 🚡 😤 🔮 🥥		
SrNo	Script Name	Profile Call Info	Script Execution Status	
1	ContextHandler.gls	Cxtld : .\$,PhyTmild : .Card1592/TS17,RTP/	.RTP/1946 Stop Send_Fit	e-Started
2	ContextHandler.gls	Cxtld : ,\$,PhyTmld : ,Card1592/TS18,RTP/	,RTP/1946 Stop Send_File	e-Started
3	ContextHandler.gls	Cxtld : ,\$,PhyTmld : ,Card1592/TS19,RTP/	,RTP/1946 Stop Send_File	e-Started
4	ContextHandler.gls	CxtId : ,\$,PhyTmld : ,Card1592/TS20,RTP/	,RTP/1946 Stop Send_File	e-Started
5	ContextHandler.gls	Cxtld : ,\$,PhyTmld : ,Card1592/TS21,RTP/,	,RTP/1948 Stop Send_File	e-Started
6	ContextHandler.gls	CxtId : ,\$,PhyTmld : ,Card1592/TS22,RTP/	,RTP/1948 Stop Send_File	e-Started
7	ContextHandler.gls	CxtId : ,\$,PhyTmld : ,Card1592/TS23,RTP/	RTP/1948 Stop Send_File	a-Started
8	ContextHandler.gls	CxtId : .\$,PhyTmld : .Card1592/TS24,RTP/	RTP/1948 Stop Send_File	e-Started
9	ContextHandler.gls	Cxtld : ,\$,PhyTmld : ,Card1591/TS1,RTP/J	RTP/1950 Stop Send_File	s-Started
10	ContextHandler.gls	Cxtld: ,\$,PhyTmld: ,Card1591/TS2,RTP/J	RTP/1950 Stop Send_File	a-Started
11	ContextHandler.gls	Cxtld : ,\$PhyTmld : ,Card1591/TS3,RTP//	RTP/1950 Stop Send_File	e-Started
12	ContextHandler.gls	Cxtld : ,\$PhyTmld : ,Card1591/TS4,RTP//	RTP/1950 Stop Send_File	e-Started
13	ContextHandler.gls	Cxtld : .\$.PhyTmld : .Card1591/TS5.RTP//	RTP/1952 Stop Send_File	a-Started
14	ContextHandler.gls	Cxtld: ,\$PhyTmld: ,Card1591/TS6,RTP/	RTP/1952 Stop Send File	e-Started
15	ContextHandler.gls	Cxtld: ,\$,PhyTmld: ,Card1591/TS7,RTP//	RTP/1952 Stop Send_File	a-Started
16	ContextHandler.gls	Cxtld : .\$.PhyTmld : .Card1591/TS8.RTP//	RTP/1952 Stop Send File	e-Started
17	ContextHandler.gls	Cxtld: ,\$,PhyTmld: ,Card1591/TS9,RTP//	RTP/1954 Stop Send File	e-Started
18	ContextHandler.gls	Cxtld : ,\$,PhyTmild : ,Card1591/TS10,RTP/	RTP/1954 Stop Send_File	a-Started
19	ContextHandler als	Celd . \$ PhyTmild - Card1591/TS11 BTP/	BTP/1954 Stop Send File	e-Started
Stop	Stop All Abort Abort All	Show Records Select Active Call Auto Trash	sh	
		add a		ind
		01:55:37.062000		
	Ado	Heply 01:55:37.069000		
	м	odify 01:55:37.161000		
	. Mod	h Banhu	=	

) 📁 🔒 🛃	Add Ta					
Packet Stats						
Name	Values					
Active RTP Sessions	0					
Completed RTP Sessions	10011					
Sessions With Zero Receive Traffic	4213					
	0					
MOS Score Stats	0					
	0					
Sessions with Mos (5.0 - 4.0)	5798 [57%]					
Sessions with Mos (4.0 - 3.0)	0 [0%]					
Sessions with Mos (3.0 - 2.0)	0 [0%]					
Sessions with Mos (< 2.0)	0 [0%]					
	0					
Total Packet Sent	25970124					
Total Packet Received	26171891					
	0					
Packet-Loss Stats	0					
	0					
Total PacketLoss	0 [0%]					
Sessions with Zero Packet-Loss	5798 [57%]					
Sessions with Packet-Loss(1 - 50)	0 [0%]					
Sessions with Packet-Loss(51-100)	0 [0%]					
Sessions with Packet-Loss(>100)	0 [0%]					
	0					
Packet-Discarded Stats	0					
Total DasketDiscarded	0 [09/]					
Foreigner with Zere Derlich Discord	5700 [5701]					

Troubleshoot

• Check manually the LEDs on GL's HD card. Blinking LEDs indicate traffic activity, and Green LEDs indicate just the link up status.





• Click NT 3G Tools icon from the desktop and invoke NT 3G Tools console window. Type monitoring.exe command to invoke the following monitoring utility. This displays the link status of each SFP Type connection and the auto negotiated link speed Also observe the Tx and Rx traffic statistics on each port after the bulk call simulation.

P - Port number

- A Adapter number
- Type Connection type

Link - Link speed (Down indicates cable is unplugged or SFP module is incompatible)

				ma (m. 2	11 0 210 6501	· -				
Dδ	т		- monitori	ng (V. 2	. 11. 0. 216. 056ca1		T	3.6	Tana	
0 0	SEP	CII	1G Full	1	0.00M	n	. 00M	9018	N/A	
1 0	SEP. SX	DD	1G Full	ŝ	0.00M	n	. 00M	9018	54.70	С
2 0	SFP-LX	DD	1G Full		0. 00M	ŏ	. 00M	9018	58.90	č
3 0	SFP-LX	DD	1G Full	ĩ	0. 00M	ŏ	. 00M	9018	60.50	č
4 1	SFP-SX	DD	1G Full	6	0.00M	ō	. 00M	9018	62.80	ć
5 1	SFP-SX	DD	1G Full	8	0.00M	ŏ	. 00M	9018	63.20	č
6 1	SFP-SX	DD	1G Full	š	0.00M	ŏ	. 00M	9018	63.80	č
7 1	SFP-SX	DD	1G Full	4	0. 00M	ō	. 00M	9018	64.30	ē
Packet	5		0×0000001A4	KA RMU FA0738E7	Octets		n×nnn	01763	067682	92
Packet	s		0x0000001A4	FW0738E7	Octets		0x000	01763	06F682	92
Broadc	ast		Ux000000000	0089264	Multicast		UXUUU	00000	000451	CB
b4 oct	ets r		0x000000000	JUUSP44E	bb-12/ octets		0x000	00000	2429E3)	80
128-25	5 octets		0x00000191	J8893AC2	256-511 octets		0x000	00000	UTACDU.	E/
512-10	23 octet:	s :	0x000000000	JASAF988	1024-1518 octet	s :	0x000	00000	3B165B.	E8
Unders	120		0x000000000	00000000	Oversize		0x000	00000		00
Fragme	nts		0x000000000	00000000	Collisions		0x000	00000		00
Drop e	vents		0x000000000	00000000	Crc/Align error	5	0x000	00000	0000000	υU
Jabber	s		0x000000000	00000000						

GL Communications Inc. 818 West Diamond Avenue - Third Floor Gaithersburg, MD 20878 (V) 301-670-4784 (F) 301-670-9187 Web Page: http://www.gl.com/ E-Mail Address: info@gl.com



- "Security Error: Application is not licensed" error indicates a problem with either your dongle or license file.
 - First verify that the dongle is plugged in and the red light is ON
 - > Navigate to C:\Program Files\GL Communications Inc\GLDONGLE
 - > Run *haspinfohl.exe*. Verify that Status is **OK** and make a note of the Serial #.
 - Run appl_list.exe. Verify that there is a line in the table reading PKS122 MAPSTM Megaco, PKS109 MAPSTM HD with the serial number you noted above.
 - If the dongle does not appear in *haspinfohl.exe*, verify that it appears as a USB device in the Windows Device Manager. If it does not appear even in the device manager, remove the dongle and plug it into a different USB port, preferably one directly on the motherboard.
- If the SIP/RTP Core console does not invoke with the MAPSTM TestBed start-up, check for the following:
 - Verify that the MG1, MG2, and MGC IP Addresses are configured with the proper IP address of the Regular NIC cards. These should free IP address within the same subnet, and when connected to a switch, no IP Conflicts should be reported. If the system is connected to a LAN, contact your system administrator to avoid IP address conflicts before you perform the steps below.
 - RTP Soft Core licenses may not be installed for the dongle used. Run *appl_list.exe* available in the C:\Program Files\GL Communications Inc\GLDONGLE directory. Verify that there is a line in the table reading PKS102 RTP Soft Core with the serial number you noted above.



- If the Tx and Rx traffic statistics on each port after the bulk call simulation is showing incorrectly, click **NT 3G Tools** icon from the desktop and invoke **NT 3G Tools** console window.
 - Type the commands as shown in the screen below and from the C:\Program Files\Napatech3\config directory, to open NTservice.ini file. Press Enter.



Make sure that Profile parameter in the file is set to 'TrafficGen'. If not make this change, save the file in the same location (you will need Administrator priviledges to give write permission to this folder).

	NTService - Notepad 🛛 🗕 🗆 🗙
File Edit Format View Help	
[Adapter0] AdapterType = NT4E DiscardSize = 16 HostBufferHandlerAffinity = -2 HostBufferPollInterval = default HostBufferSegmentSizeRx = default HostBufferSegmentTimeOut = default HostBufferSRx = [4,16,0] HostBufferSTx = [4,16,0] IfgMode = NS MaxFrameSize = 9018 OnBoardMemorySplit = Even PacketDescriptor = NT Profile = TrafficGen SofijnRsped = 16	<pre># NT4E - NT20E - NT4E_STD - NTPORT4E - NT20E2 - NT40E2_1 # 16 63 # -2 7 # default* - 100 - 250 - 500 - 1000 # default* - 1* - 2 - 4 # default* - 100 - 250 - 500 - 1000 - 10000 - 25000 - 50 # [x1, x2, 0], # [x1, x2, 0], # NS* - BYTE # 1518 10000 # Even* - Proportional # PCAP - NT* - Ext7 - Ext8 - Ext9 # None* - Capture - Inline - CaptureReplay - TrafficGen # 1000 - 10000 - TafficGen # 1000 - 10000 - TafficGen</pre>
TimeSyncConnectorExt1 = NttsIn	<pre># None - NttsIn* - PpsIn - NttsOut - PpsOut - RepeatInt1</pre>

• If you cannot resolve the issues, please contact the appointed technical support person. If you do not know the technical support contact, please reach us at <u>info@gl.com</u>.

