

MAPS<sup>TM</sup> ISUP SIGTRAN is licensed either through <u>software licensing</u> or <u>USB hardware dongle</u>. Follow the procedures below as per your purchase order.

# **System Requirements**

- Windows® 10 and above Operating System (64 bit Only).
- Core i7 (or equivalent), 8 GB Memory, 2x NIC cards, and USB Ports.
- PCs which include GL hardware/software require Intel or AMD processors for compliance.

# Software based licensing (for evaluation only)

- In case of software-based licensing, the software executables, license installer, and documents can be downloaded from the software licensing web portal (refer to email notification from GL Communications).
- Follow the instructions in the <u>https://www.gl.com/ses/download/GL-Software-License-Evaluation-Instructions.pdf</u> to install software license.
- To verify that the purchased licenses are installed correctly, open any web browser from the system on which the software license is installed and type the URL "<u>http://localhost:1947/\_int\_/products.html</u>". Click on **Features** and confirm that the following **Product licenses** are listed:
  - PKS130 (MAPS for SIGTRAN)
- After completing software license installation, right-click on MAPS-SS7SIGTRANx64.exe and select Run as Administrator option to execute the application in administrator mode. Follow the on-screen instructions to complete the software installation.
- For basic functional verification, refer to **MAPS-Sigtran-Quick-Verification-Guide**.

### **USB Hardware Dongle based licensing**

- If the software is licensed through hardware USB dongle, your shipment will contain a **USB Installation Stick** (pen drive) with necessary software executables, license installer, and documents.
- Plug-in the USB Installation Stick (pen drive) to the PC.
- Navigate to \*GL-Dongle-LicenseInstaller* folder in installation USB stick and execute *GLLdkDongleLicenseInstaller\_x64.exe* (or *GLLdkDongleLicenseInstaller\_x86.exe*). Follow the on-screen instructions to complete the installation.
- For any issues during the installation, follow hardware dongle licensing procedure mentioned in the https://www.gl.com/Brochures/Brochures/Installation-Instructions-for-Dongle-Programs.pdf.
- Once the license installation is completed, plug the dongle to the USB port of your computer. Windows® should install all required drivers automatically. A red light should appear on the dongle indicating that it is functioning correctly from a physical point of view.
- You can verify if the required 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:
  - > PKS130 (SIGTRAN Protocol Emulation-SS7 over IP)

Note: Please verify that all licenses purchased are displayed using the appl\_list.exe utility.

• Navigate to \PKS130-MAPS-SIGTRAN\MAPS-SIGTRAN-Software-verXX folder, right click MAPS-SS7SIGTRANx64.exe and select Run as Administrator. Follow the onscreen instructions and complete the installation.

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^	Name	Туре	Size
	🔁 MAPS-Sigtran-Quick-Install-Guide.pdf	Adobe Acrobat	
	MAPS-SS7SIGTRANx64.exe	Annlication	4
	Open		
	😯 Run as ac	dministrator	

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#### Warranty License Installer

- Users must install the **Warranty License** for the software to run.
- Navigate to root directory in **USB installation stick** (pen drive) to Warranty LicenseInstaller folder, execute GLSupportWarrantyLicenseInstaller.exe. Follow the onscreen instructions and complete the installation.

Name ^	Open
🚭 GLSupportWarrantyLicenseInstaller.exe	💎 Run as administrator
msvclv.csv	Troubleshoot compatibility
S msvclv.csv	Pin to Start
	Move to OneDrive



This will display the list

To confirm that warranty is installed properly, double-click on Warranty Application List icon • of warranty applications which are purchased.

	💐 Support W	Varranty Licensed A	Applic	ation Versio	ons		- 0	×
-Licensed Devic	e Types (use selec	ction)	Г	Licensed Fea	atures (click on a h	eader to sort)		
software				HW Type	Serial Num/Key ID	FID	FID Description	Version
				software	x7ADxxxxx	77	PKS130 SIGTRAN Protocol Emulation-SS7 over IP	20.8.1
				software	x7A5xxxxx	77	PKS130 SIGTRAN Protocol Emulation-SS7 over IP	20.8.1
				software	x781xxxxx	77	PKS130 SIGTRAN Protocol Emulation-SS7 over IP	20.8.1
				software	x76EXXXXX	77	PKS130 SIGTRAN Protocol Emulation-SS7 over IP	20.8.1
				software	x70Bxxxxx	77	PKS130 SIGTRAN Protocol Emulation-SS7 over IP	20.8.1
				software	x6F2xxxxx	77	PKS130 SIGTRAN Protocol Emulation-SS7 over IP	20.8.1
				software	x6B7xxxxx	77	PKS130 SIGTRAN Protocol Emulation-SS7 over IP	20.8.1
				software	x699xxxxx	77	PKS130 SIGTRAN Protocol Emulation-SS7 over IP	20.8.1
				software	x680xxxxx	77	PKS130 SIGTRAN Protocol Emulation-SS7 over IP	20.8.1
				software	x67EXXXXX	77	PKS130 SIGTRAN Protocol Emulation-SS7 over IP	20.8.1
All	Export	Delete Sel	F	Refresh	Exit			

Users can check the Warranty expiry date in the Version column that is 20.8.1 (i.e. 2020 August 1<sup>st</sup>), and user can verify the date to be as expected (depending on the support warranty purchased).

Note: Any latest software updates after warranty period will not be available until warranty licenses are renewed

### **Invoking Application**

It is recommended to reboot the system after the software installation.



- The application must invoke without any errors.
- Protocol Selection window is prompted as shown in the figure. .
- By default, Protocol Selection window displays Protocol Standard as ISUP-Sigtran and Protocol Version as ITU
- User should select the Transport (supports M3UA, M2PA, M2UA, and ATM transport types) as required for the test
- Following this, the Testbed window is displayed as shown in the figure below, where the user should configure the node with proper IP address and port.

Protocol Selection	×
Protocol Standard	Isup-Sigtran
Protocol Version	ITU 💌
Node	
Transport	M3UA 💌
	ОК

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# MAPS<sup>™</sup> ISUP SIGTRAN (PKS130) Quick Install Guide

• Save the configurations and click Start in the Testbed window to get started with the test

Configurations Emulator Reports Editor Debug T			- 8
Q: 🗐   🍇 🍝 🗞   💺 🕮 📕   🍼 🔮	° 📕 🗟 🔓 🕹 💂 🤮		
			6
Config	Value	▲ Enable	
Signaling Gateway			
<ul> <li>SCTP Mode</li> </ul>	Client		
<ul> <li>Exchange Type</li> </ul>	Control		
<ul> <li>Circuit Mapping</li> </ul>	Only CIC		
<ul> <li>CIC to Circuit Mapping</li> </ul>	CIC Based		
<ul> <li>CIC Handling Method for CIC Based Mapping</li> </ul>	Configured in Profile		
- Signaling Gateway	1		
L Signaling Gateway 1			
<ul> <li>SGW IP Address</li> </ul>	192.168.12.219		
<ul> <li>SGW Port</li> </ul>	2905		
<ul> <li>MGC IP Address</li> </ul>	192.168.12.219		
<ul> <li>MGC Port</li> </ul>	2906		
<ul> <li>M3UA Parameters</li> </ul>			
<ul> <li>Termination Type</li> </ul>	SGP		
<ul> <li>Network Indicator</li> </ul>	International		
<ul> <li>Routing Context Indicator</li> </ul>	Absent		
<ul> <li>Routing Context</li> </ul>	1		
<ul> <li>Network Appearance Indicator</li> </ul>	Absent		
<ul> <li>Network Appearance</li> </ul>	1		
Media Gateway Controller			
<ul> <li>Traffic Type</li> </ul>	None		
MGC IP Address for Traffic	192.168.12.217		
L SSP	1		
L SSP 1		Start Edit	

• For functional verification of MAPS-SIGTRAN application, refer to MAPS-Sigtran-Quick Verification-Guide.