

## **System Requirements**

- Windows® 10 and above Operating System (64 bit Only).
- Core i3 to i7 (or equivalent), 8 GB Memory, 2 or more NIC cards, and USB Ports.

#### 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:
  - PKS166 MAPS UMTS GnGp
  - ETH101 MobileTrafficCore-GTP

#### **USB Hardware Dongle Based Licensing**

- If the software is licensed through hardware USB dongle, the shipment will contain a **USB Installation Stick** (pen drive) with necessary software executables, license installer, and documents along with USB dongle.
- Plug-in the dongle to the USB port of the computer.
- 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*. Follow the on-screen instructions to complete the installation.
- A **Red** light should appear on the dongle indicating that it is functioning correctly.
- User 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:
  - PKS166 MAPS UMTS GnGp
  - **ETH101** MobileTrafficCore-GTP
- For any issues during the installation, follow hardware dongle licensing procedure mentioned in the <a href="https://www.gl.com/Brochures/Installation-Instructions-for-Dongle-Programs.pdf">https://www.gl.com/Brochures/Installation-Instructions-for-Dongle-Programs.pdf</a>.



#### Warranty License Installer

Follow the below steps to install the Warranty license.

• 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 msvclv.csv msvclv.dll	🗣 Run as administrator	
	Troubleshoot compatibility Pin to Start Move to OneDrive	



• To confirm that warranty is installed properly, double-click on **Warranty Application List** icon this will display the list of purchased.warranty applications.

🦄 Support Warranty Licensed Application Versio	5	- 🗆	$\times$
Licensed Device Types (use selection)	Licensed Features (click on a header to sort)		
software	HW Type Serial Num/Key ID FID FID Description	Version	^
	software xxxxxxxx 68 PKS166 UMTS-Gn Interface Emulation	22.8.1	
	software xxxxxxxx 99 ETH101 MobileTrafficCore-GTP	22.8.1	
	· · · · · · · · · · · · · · · · · · ·		
All Export Delete Sel	Refresh Exit		

• In the Version column verify the warranty expiry date. For example, 22.8.1 (i.e., 2022 August 1<sup>st</sup>).

# Note:

• Any latest software updates after warranty period will not be available until warranty licenses are renewed.



# **Software Installation**

• Navigate to \PKS166-MAPS-UMTS-GnGp\MAPS-UMTS-GnGp-Software-verXX folder, right click MAPS-GnGpx64.exe and select **Run as Administrator**. Follow the onscreen instructions and complete the installation.



• For traffic emulation on UMTS GnGp interfaces, execute **MobileIPCorex64.exe** from **\ETH101-Traffic\MobileIPCore-Software-verXX** folder in the USB installation stick. Follow the onscreen instructions and complete the server application installation.

📑 « ETH101-ETH102-ETH103-Traffic » MobilelPCore-Software-ve!				
^	Name		Туре	Size
	🛐 MobilelPCorex <b>64</b> .exe		Application	22
		Oper	1	
	😌 Run as administrator			

## **Invoking Application**

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



- Right-click on **MAPS GnGp** short-cut icon **MAPS-GnGp** created on the desktop and select '**Run as Administrator**'. The application should invoke without any errors.
- Select the appropriate parameters on the **Protocol Selection** window and click **OK**

Protocol Selection	I	×
Protocol Standard	UMTS GnGp	•
Protocol Version	3GPP	•
Node	SGSN	•
Transport		~
	ОК	

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• Default Testbed setup window is displayed as shown below.

MAPS SGSN (UMTS GnGp 3GPP ) - [Testbed Setup -	_			
💌 Configurations Emulator Reports Editor Debug Tools Windows Help 💶 🖻				
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		· · · ·	0	
Config	Value	Enable		
🗏 UMTS GnGp				
– Adapter Index	0			
- SGSN	1			
Le SGSN 1				
<ul> <li>SGSN IP Address</li> </ul>	192.168.12.27			
<ul> <li>SGSN Port</li> </ul>	2123			
<ul> <li>SGSN IP Address For Traffic</li> </ul>	192.168.15.27			
<ul> <li>GTP Port For Traffic</li> </ul>	2152			
Supported GGSN				
<ul> <li>– GGSN IP Address</li> </ul>	192.168.12.26			
GGSN Port	2123			
- Traffic Parameters				
- Traffic	Disable			
<ul> <li>PacketLoad Traffic Type</li> </ul>	HTTP Traffic			
<ul> <li>PacketLoad Management IP Address</li> </ul>	192.168.30.99			
PacketLoad Traffic Mode	GTP To GTP			
UE Simulation Parameters				
<ul> <li>Type Of UE Simulation</li> </ul>	Profile			
<ul> <li>End User Configuration</li> </ul>	MS_Profiles.xml			
<ul> <li>CSV File Name</li> </ul>	C:\Program Files\GL Commun			
Auto Generated Users Info	_			
<ul> <li>No Of Users To Be Simulated</li> </ul>	40000000			
<ul> <li>Starting IMSI</li> </ul>	001013014041741			
– MSISDN	3014041741			
Auto Generated End User Configuration	AutoGeneratedUser_Profile.xml			
		Start Edit		
		Initialisation Erro	rs 🚺	

- To quickly get started with the MAPS™ GnGp application, refer to MAPS-GnGp-Quick-Verification-Guide
- To quickly get started with the MAPS<sup>TM</sup> GnGp with Mobile Traffic Core-GTP application, refer to MAPS-GnGp-and-Mobile-Traffic-ETH101-Quick-Verification-Guide.
- To quickly get started with the MAPS<sup>™</sup> GnGp with PacketLoad application, refer to MAPS-GnGp-with-PacketLoad-Quick-Verification-Guide.