

MAPS™ SLs is licensed either through software licensing or USB hardware dongle. Follow the procedures below as per your purchase order.

## System Requirement

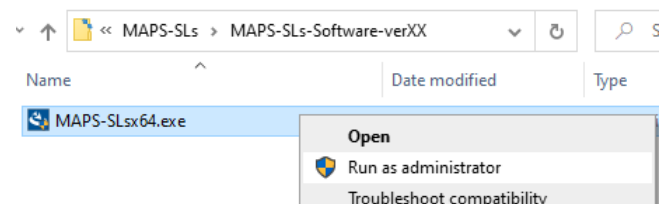
- Windows® 10 and above Operating System (**64 bit Only**).
- Core i7 (or equivalent), 8 GB Memory, 2 x NIC cards, and USB Ports.

## 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 <https://www.gl.com/ses/download/GL-Software-License-Evaluation-Instructions.pdf> 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 "<http://localhost:1947/int/products.html>". Click on **Features** and confirm that the following **Product licenses** are listed:
  - PKS148 (MAPS SLs Interface Emulator)
- After completing software license installation, right-click on **MAPS-SLsx64.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 a basic functional verification, refer to **MAPS-SLs-Quick-Verification-Guide**.

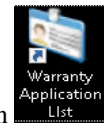
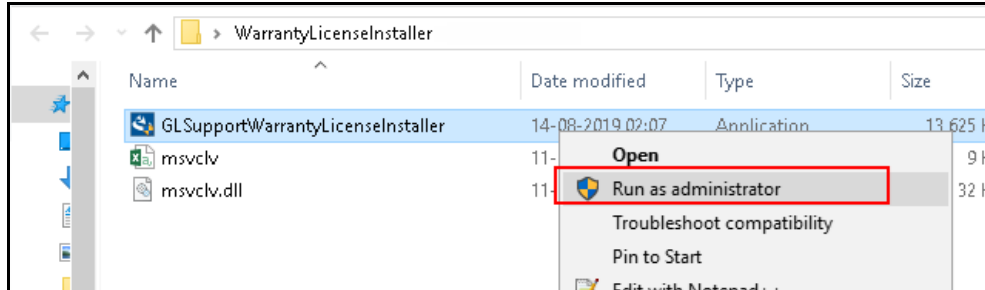
## USB Hardware Dongle based licensing

- 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:
  - PKS148 (MAPS SLs Interface Emulator)
- Navigate to **|MAPS-SLs\MAPS-SLs-Software-verXX** folder, right-click **MAPS-SLsx64.exe** and select **Run as Administrator**. Follow the onscreen instructions and complete the installation.

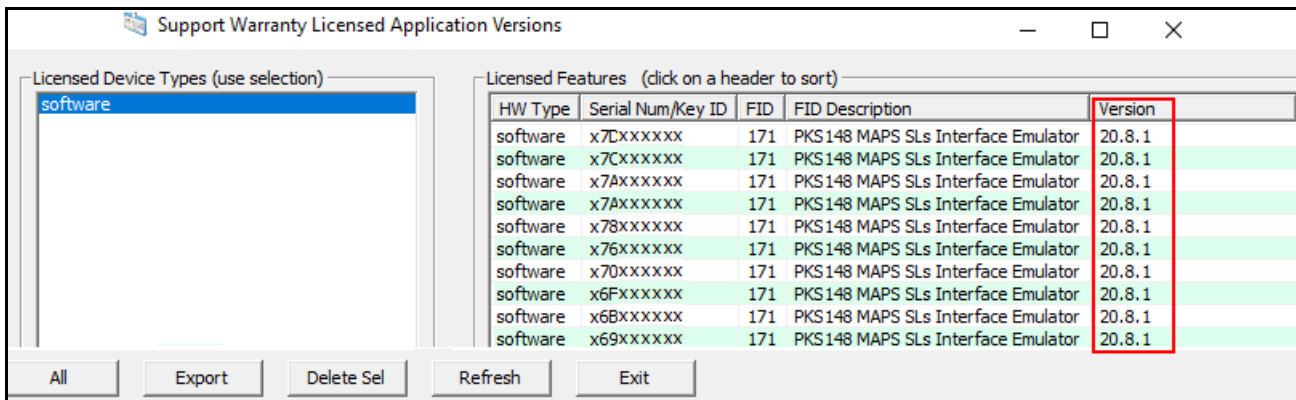


## Warranty License Installer

- 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.



- To confirm that warranty is installed properly, double-click on **Warranty Application List** icon. This will display the list of warranty applications which are purchased. Refer to the below figure

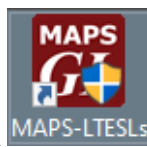


- Users can check the Warranty expiry date in the **Version** column that is **20.8.1** (i.e. 2020 August 1<sup>st</sup>), and user can verify the date to be as expected (depending on the support warranty purchased).

**Note:** All the MAPS™ software versions continue to operate normally. But any latest software updates after warranty period will not be available until warranty licenses are renewed

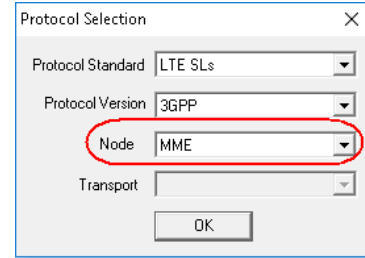
## Invoking Application

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

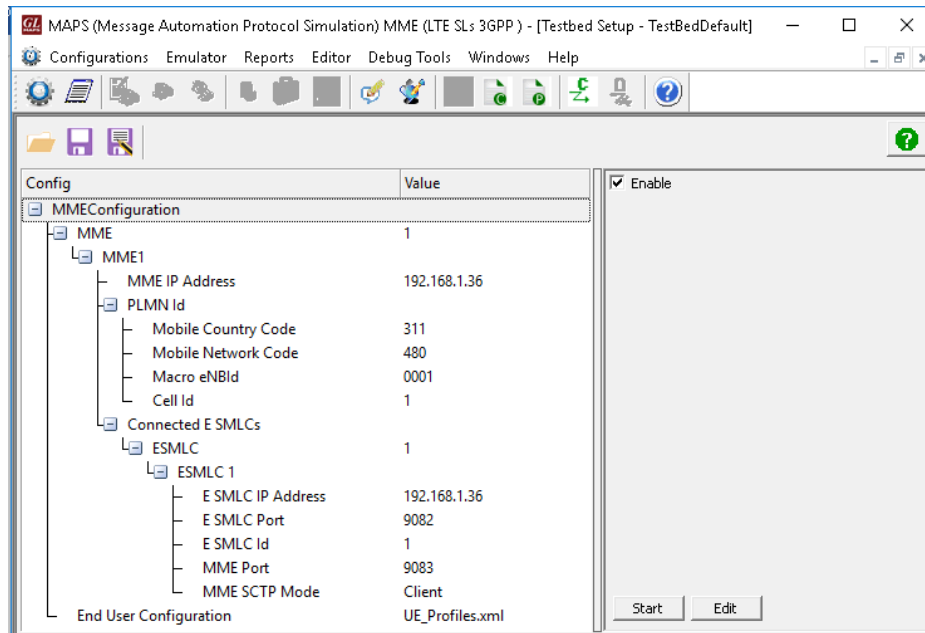


- Right-click on **MAPS LTESLs** short-cut icon created on the desktop and select **'Run as Administrator'**. The application must invoke without any errors.

- The Protocol Selection window is prompted, using which the user can select the **LTE SLs Node** for configuration
  - **Protocol Standard** is set to **LTE SLs**
  - **Protocol Version** is set to **3GPP**
  - Select **Node** as **MME**
  - Click **Ok**



- By default, the application displays the testbed setup window as shown below.



- Click the **Start** button in the testbed setup window. **Note:** Both the end terminal Nodes (E-SMLC and MME) should be configured before starting the testbed for successful SCTP link establishment.
- This completes the installation process. If you had problems with installation so far, refer to **Troubleshoot** section explained in <https://www.gl.com/Brochures/Brochures/Installation-Instructions-for-Dongle-Programs.pdf>.
- For a quick self-test procedure, refer to the steps explained in the **MAPS-LTESLs-Quick-Verification-Guide** document.
- If you cannot resolve the issues, contact GL Communications INC at [info@gl.com](mailto:info@gl.com) for technical support.