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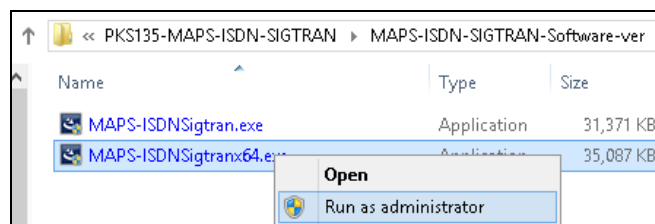
System Requirements

- Windows® 10 and above Operating System (64 bit Only).
- Core i7 (or equivalent), 8 GB Memory, 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 *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:
  - ➢ PKS135 (SIGTRAN Protocol Emulation-ISDN over IP)
- After completing software license installation, right-click on **MAPS-ISDNSigtranx64.ex** and select **Run as Administrator** option to execute the application in administrator mode. Follow the on-screen instructions to complete the software installation.
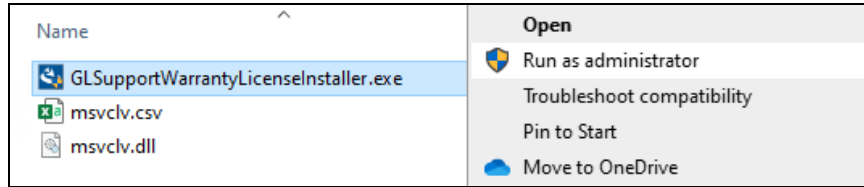- For a basic functional verification, refer to **MAPS-ISDN-Sigtran-Quick-Verification-Guide**.

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:
  - ➢ PKS135 (SIGTRAN Protocol Emulation-ISDN over IP)
  - **Note:** Please verify that all licenses purchased are displayed using the **appl_list.exe** utility.

- Navigate to folder **\PKS135-MAPS-ISDN-SIGTRAN\MAPS-ISDN-SIGTRAN-Software-verXX** folder, right click **MAPS-ISDNSigtranx64.exe** and select **Run as Administrator**. Follow the onscreen instructions and complete the installation.
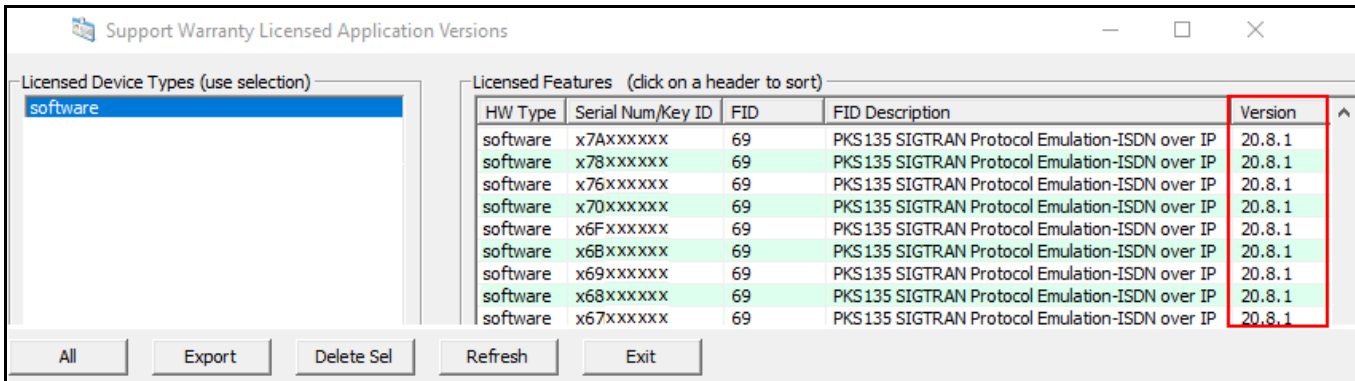
Warranty License Installer

- 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.

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

- Users can check the Warranty expiry date in the **Version** column that is **20.8.1** (i.e. 2020 August 1st), and user can verify the date to be as expected (depending on the support warranty purchased).
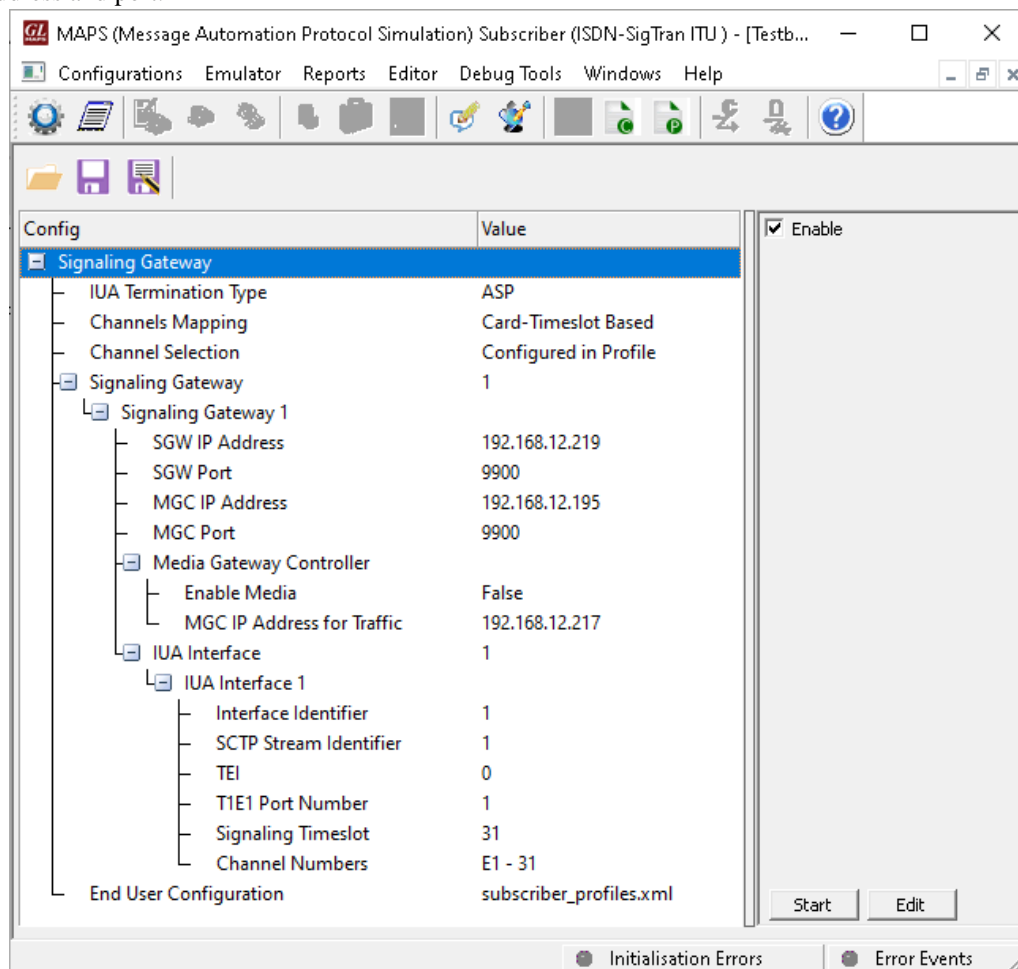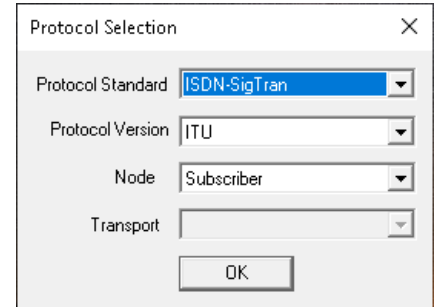
  Note: Any latest software updates after warranty period will not be available until warranty licenses are renewed

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

- Right-click on the **MAPS-ISDN-SIGTRAN** short-cut icon created on the desktop and select '**Run as Administrator'**. The application must invoke without any errors. If you had problems with installation so far, refer to Troubleshoot section explained below.

To quickly get started with the MAPS™ ISDN Sigtran application and for test scenario configurations, refer to MAPS-ISDN-Sigtran-Quick-Verification-Guide.

Invoking Application

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

- Right-click on the **MAPS-ISDNSigtran** shortcut icon created on the desktop and select 'Run as Administrator'.

- 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 **ISDN-SigTran** and **Protocol Version** as **ITU**

- User should select the **ISDN SigTran Node** (Switch, Subscriber) and click **Ok**.

- 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.

- **Save** the configurations and click **Start** in the Testbed window to get started with the test.

- This completes the successful installation of **MAPS™ ISDN SigTran** application. For a quick self-test procedure, refer to the steps explained in the **MAPS-ISDN-Sigtran-Quick-Verification-Guide** document.

- If you are still having issues or have any other related questions, please contact GL Communications at info@gl.com for technical support.