

MAPS™ ED137 Radio is licensed either through software licensing or USB hardware dongle. Follow the procedures below as per your purchase order.

### System Requirements

- Windows® 11/Windows® Server 2016 or above Operating System (64 bit Only).
- Core i7 or above Processor, 8 GB or above RAM, 1 Gigabit Ethernet NIC and USB Ports.
- PCs which include GL hardware/software require Intel or AMD processors for compliance.



#### Note:

- **Recommended System configuration to achieve full load:** Windows® 11 Operating System, Intel Core i9 Processor and 32GB RAM.
- Make sure that the Firewall on the test system is turned off before placing the calls. Navigate to Control Panel → System & Security → Windows Defender Firewall → in the left-pane, click on Turn Windows Defender Firewall on or off → select Turn off Windows Defender Firewall (for all network).

### Software based licensing (for evaluation only)

- In the case of software-based licensing, the software executables, license installers, 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:
  - PKS118 (MAPS for ED137 Radio)
  - PKS102 (PacketGen RTP Soft Core)
  - PKS107 (RTP EUROCAE ED137B)
  - PKS170 (CLI Support for MAPS) \*

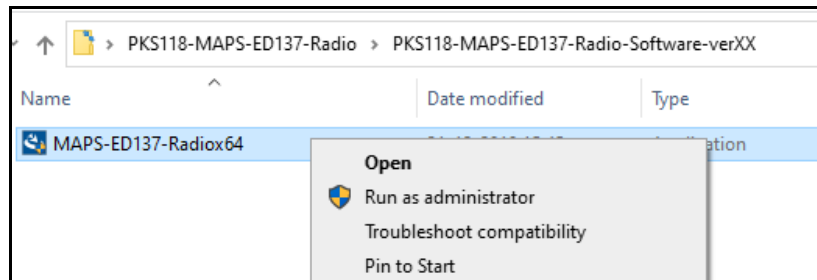


#### Note:

- Additional licenses may be required for optional applications. Please verify that all licenses purchased are displayed using the **appl\_list.exe** utility.
- After completing software license installation, right-click on **MAPS-ED137-Radios64.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-ED137-Radio-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 \PKS118-MAPS-ED137-Radio\PKS118-MAPS-ED137-Radio-Software-verXX folder, right click on **MAPS-ED137-Radiox64.exe** and select **Run as Administrator**. Follow the onscreen instructions and complete the installation



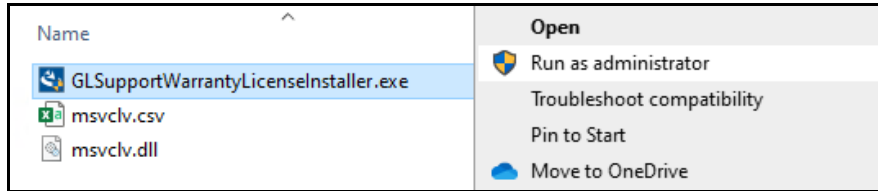
- Navigate to \GL-Dongle-LicenseInstaller folder in installation USB stick and execute **GLLdkDongleLicenseInstaller\_x64.exe** (or **GLLdkDongleLicenseInstaller\_x86.exe**). Follow the on-screen instructions to complete the installation.
- For any issues during the installation, follow hardware dongle 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 into 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.
- Users 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:
  - PKS118 (MAPS for ED137 Radio)
  - PKS102 (PacketGen RTP Soft Core)
  - PKS107 RTP EUROCAE ED137B
  - PKS170 (CLI Support for MAPS) \*


 **\*Note:**

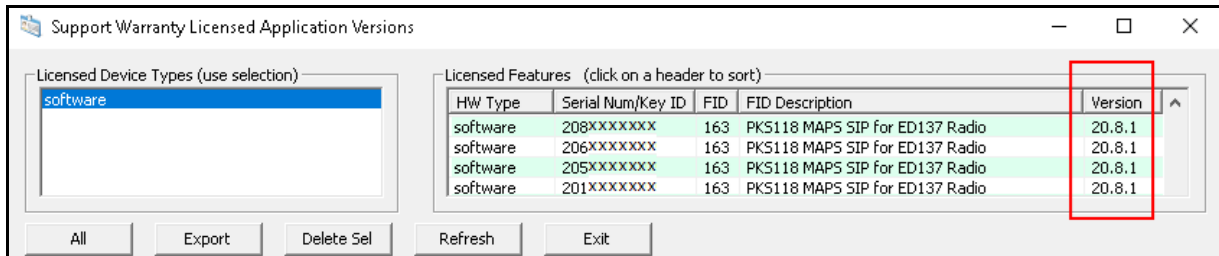
- Additional licenses may be required for optional applications. Please verify that all licenses purchased are displayed using the **appl\_list.exe** utility.

## 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 the warranty is installed properly, double-click on **Warranty Application List** icon . This will display the list of warranty applications which are purchased.



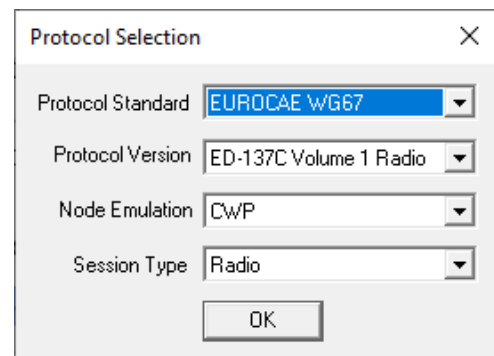
- Users can check the Warranty expiry date in the **Version** column that is **20.8.1** (i.e., 2020 August 1<sup>st</sup>), and can verify the date to be as expected (depending on the support warranty purchased).

 **Note:**

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

## Invoking Application

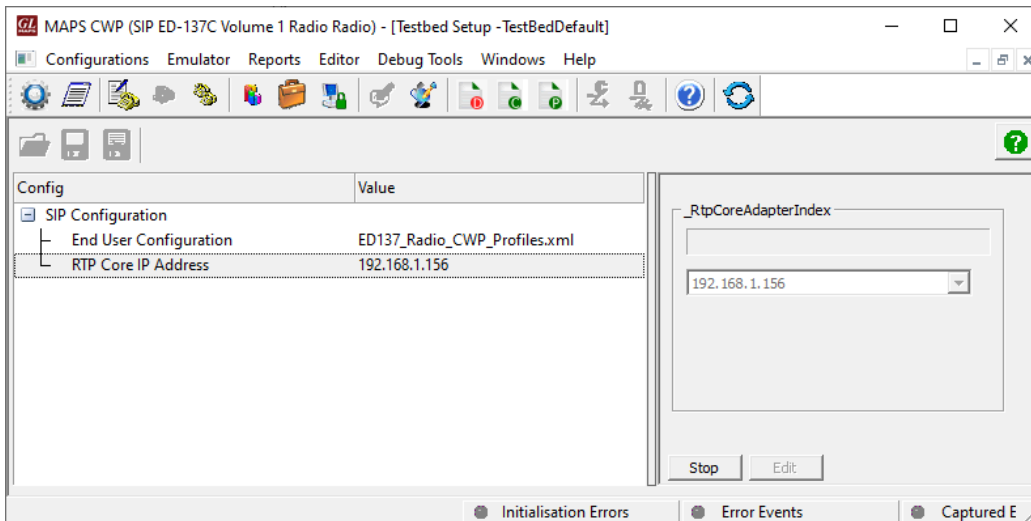
- Right-click on **MAPS ED137-Radio** short-cut icon created on the desktop and select '**Run as Administrator**'. The application must be invoked without any errors.
- In the **Protocol Selection** window, select the following options:
  - Select **Protocol Version** as **ED-137C Volume 1 Radio**
  - Select **Node Emulation** as **CWP**
  - Select the **Session Type** as **Radio**
  - Click on **OK**




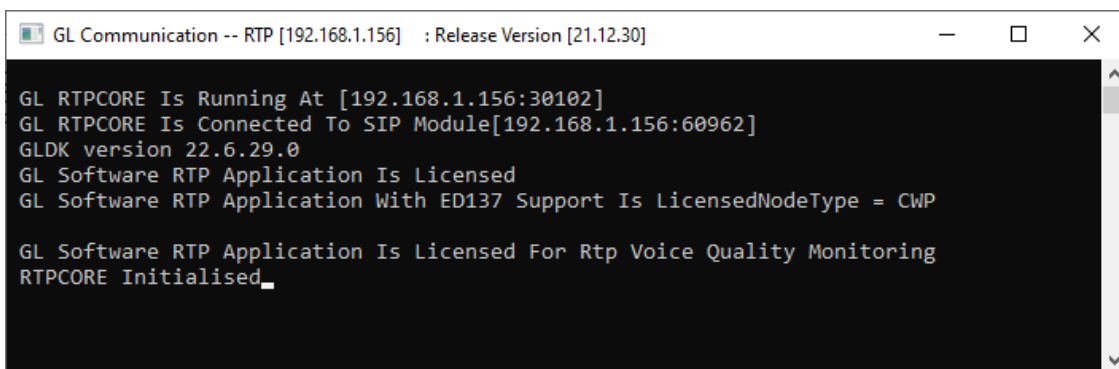
- By default, the Testbed Setup window automatically displays the RTP Core IP Address, which is the default NIC IP Address (supports IPv4 and IPv6) on the test PC.

**Note:**

- In case of multiple NIC cards on the PC, users should select the correct IP Address (which is used for testing) from the dropdown list.
- Click the **Start** button in the testbed setup window.



- Once the testbed starts, MAPS™ tries to initialize SIP and RTP cores internally, which can be verified in the RTP Core console window as shown in the figure below.
- The RTP Core console window runs in the background and may not be visible directly. The user must click on the icon in the taskbar  to maximize the RTP Core console window as shown below.
- Initialization of RTP core requires proper license (PKS102) installation.
- From this window, users can confirm that the RTP Application is licensed and that the SIP client is successfully connected to the RTP Core.



- This completes the successful installation of MAPS™ ED137 Radio application. For functional verification of **MAPS- ED137-Radio** application, refer to [MAPS- ED137-Radio-Quick-Verification](#) guide.
- If you cannot resolve the technical issues, please contact GL Communications at [info@gl.com](mailto:info@gl.com) for technical support.