

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



**Note:**

- Ensure that the **Anti-Virus** and **Windows Firewall** programs are disabled or configure **MAPS™ ED137 Radio** Application as a trusted. This will help ensure uninterrupted functionality by avoiding any disruptions from security measures.

### Software based licensing (for evaluation only)

- In the 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:
  - PKS118 (MAPS for ED137 Radio)
  - PKS107 (RTP EUROCAE ED137B)
  - PKS170 (CLI Support for MAPS) \*

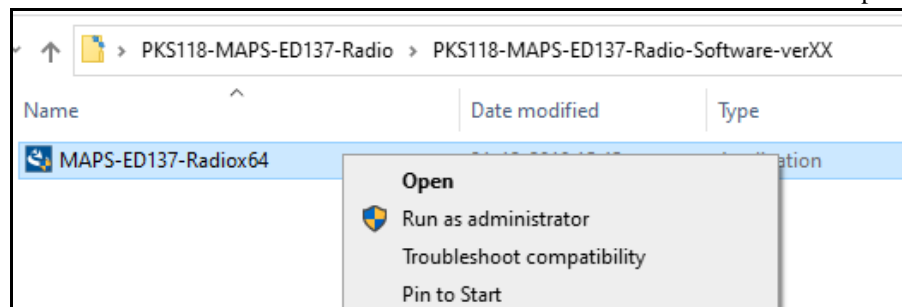


**Note:**

- 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-Radiox64.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)
  - PKS107 RTP EUROCAE ED137B
  - PKS170 (CLI Support for MAPS) \*

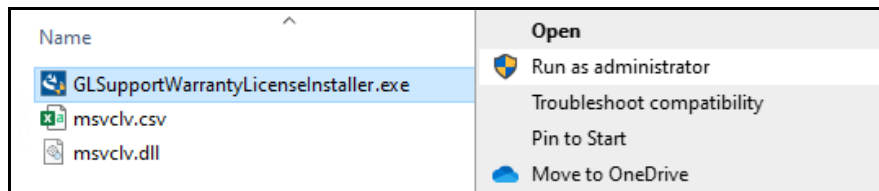



**\*Note:**

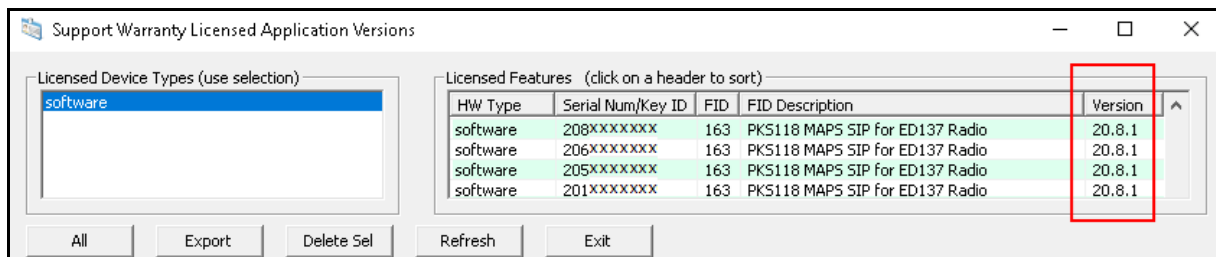
- Additional licenses may be required for optional applications. Please verify that all licenses purchased are displayed using the **appl\_list.exe** utility.

## 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 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 user can verify the date to be as expected (depending on the support warranty purchased).



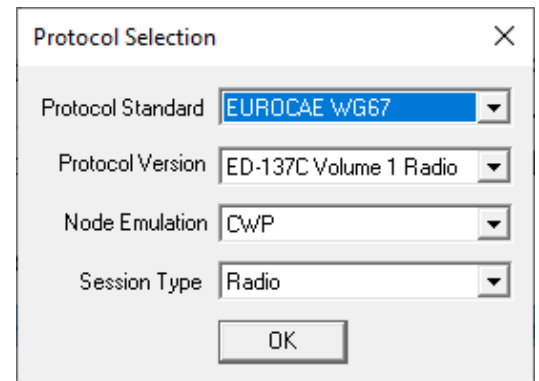
**Note:**

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



### Invoking Application

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

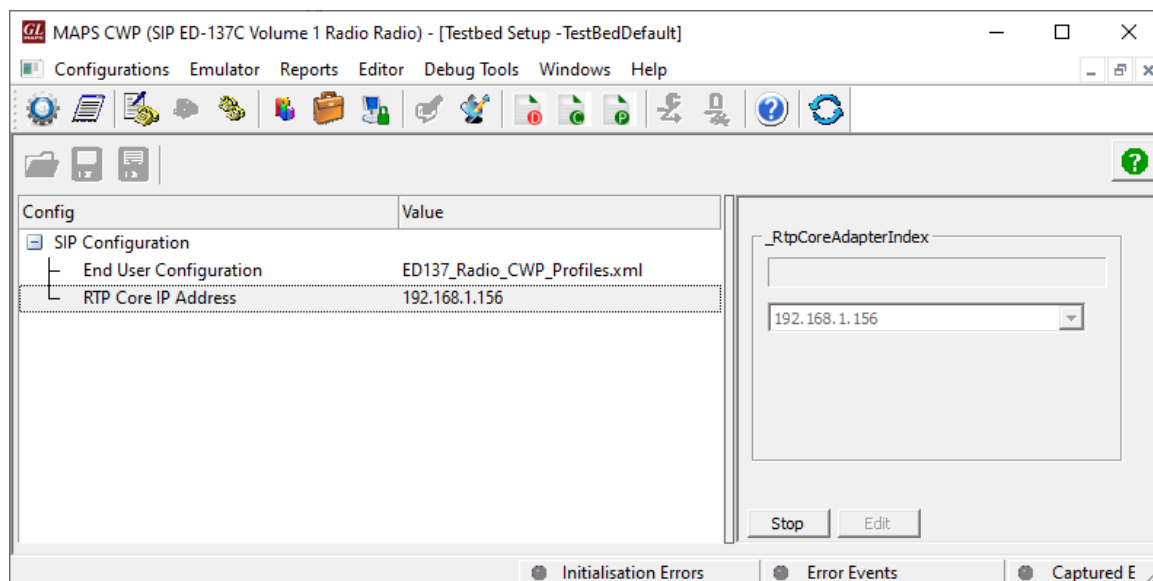



- By default, the Testbed Setup window automatically displays the RTP Core IP Address, which is the default NIC IP Address (supports IPv4 and IPv6) on the test PC.

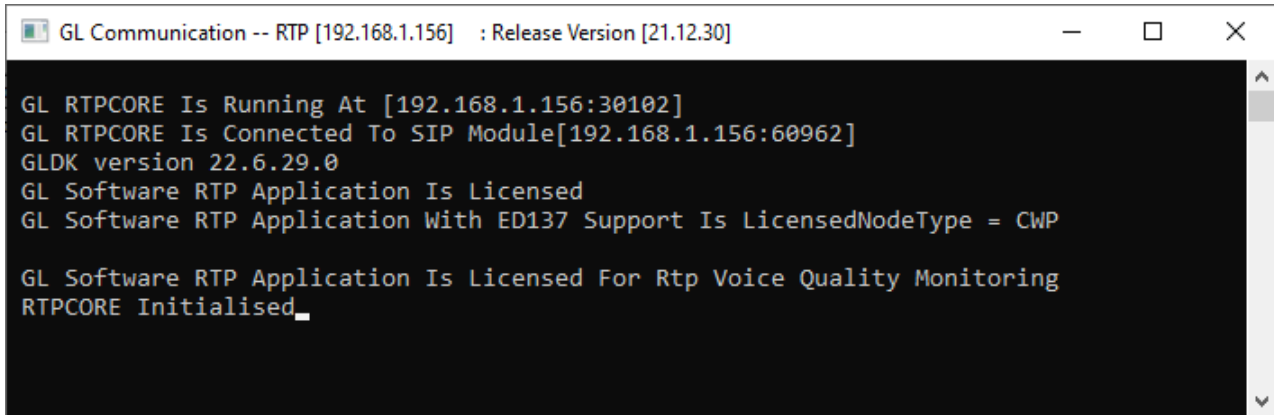


#### Note:

- In case of multiple NIC cards on the PC, user 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.



```
GL Communication -- RTP [192.168.1.156] : Release Version [21.12.30]

GL RTPCORE Is Running At [192.168.1.156:30102]
GL RTPCORE Is Connected To SIP Module[192.168.1.156:60962]
GLDK version 22.6.29.0
GL Software RTP Application Is Licensed
GL Software RTP Application With ED137 Support Is LicensedNodeType = CWP

GL Software RTP Application Is Licensed For Rtp Voice Quality Monitoring
RTPCORE Initialised_
```

- 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.