Software and License Installation

DO NOT CONNECT USB DONGLE TO THE PC FIRST. Perform Software installation first, followed by License installation and then plug-in the USB hardware dongle to the PC.

- **PC Requirements**
  - Windows® 7 and above Operating System *(64 bit Only)*.
  - Core i7 (or equivalent), 8 GB Memory, NIC, and USB 2.0 Ports.
  - Ensure that system has latest Windows® updates and service packs installed

- Plug-in the **USB Installation Stick** (pen drive) to the PC. This is provided with the shipment package by GL Communications.
- Navigate to \PKS140-MAPS-LTE-S1\MAPS-LTE-S1-Software-verXX folder, right click MAPS-LTES1x64.exe and select **Run as Administrator**. Follow the onscreen instructions and complete the installation.

- Additionally, if you have purchased traffic simulation option on S1 interface, you may 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.

- Navigate back to root directory in USB installation stick (pen drive) to \GL-Dongle License Installer folder, execute GLDongleLicenseInstaller_x64.exe. Follow the onscreen instructions and complete the installation.
- NOW PLUG-IN the USB Dongle to the PC to the USB 2.0 port of your computer. Windows® should install all required drivers automatically. A red light should appear on the dongle indicating that the device is functioning correctly and ready to use.
- It is recommended to reboot the system after the software installation. If you had problems with installation so far, refer to **Troubleshoot** section explained in this document.

- 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:
  - PKS140 (LTE-S1Interface Emulation)
  - ETH101 (MobileTrafficCore-GTP)
• Right-click on MAPS LTES1 short-cut icon created on the desktop and select ‘Run as Administrator’.
• The application must invoke without any errors.
• This completes the installation process. If you had problems with installation so far, refer to Troubleshoot section explained in this document.

For functional verification of MAPS-LTES1 application, refer to MAPS-LTE-S1-Quick-Verification guide.

Troubleshoot

• “Unknown device” error while installing USB Dongle.
  ➢ If you see this error, ensure you have installed the GL Dongle License Installer software first and then plugged the USB Dongle to the PC. The USB Dongle will then be recognized as “SafeNetInc. USB Key” and appropriate drivers will get installed automatically. If problem still persists, plug the USB Dongle to a different USB2.0 port and try again.
  ➢ In the Device Manager -> Other devices list, right-click “SafeNetInc. USB Key” and select Update Device Software. Update device drivers for unknown USB device using internet or check and install latest windows updates.

• Error: “Security Error: Application is not licensed”, if you see this error when you run MAPSTM LTE S1 it indicates a problem with either your dongle or license file.
  ➢ First verify that the dongle is plugged in and the red light is ON
  ➢ To use MAPSTM 64-bit version – use GLDongleLicenseInstaller_x64.exe utility to install licenses
  ➢ Navigate to C:\Program Files\GL Communications Inc\GLDONGLE
  ➢ Run haspinfohl.exe. Verify that Status is OK and make a note of the Serial #.
  ➢ Run appl_list.exe. Verify that there is a line in the table reading PKS140 LTE-S1Interface Emulation and ETH101-MobileTrafficCore_GTP with the serial number you noted above.
  ➢ If the dongle does not appear in haspinfohl.exe, verify that it appears as a USB device in the Windows Device Manager. If it does not appear even in the device manager, remove the dongle and plug it into a different USB port, preferably one directly on the motherboard.

• Error: “Unable to create GLIpHandler:Invalid Arguments”, if you see this error when you start the Testbed from MAPSTM LTE S1 application it indicates that the Network Adaptor is not configured correctly.
  ➢ From Help menu -> run Display Adaptor Info and obtain the Adapter Index for the IP address in use, which has to be appropriately configured in the Testbed.

• If you cannot resolve the issues, please contact GL Communications at info@gl.com for technical support.