


*It is assumed that the PacketScan™ Analyzer Software and License installations are already performed referring to the Software Quick Installation Guide (Packetscan-SIP-RTP-Quick-Install-Guide.pdf).*

*Note: Proceed to the verification steps below after successfully installing the software and verifying the required licenses (PKV100, PKV103) as explained in the Software Quick Installation Guide (Packetscan-SIP-RTP-Quick-Install-Guide.pdf).*


## Verification


Follow the steps below for functional verification of PacketScan™ **Real-time** analysis feature.

- From the **PacketScan™** main menu, select **Configure → Protocol and GUI Options** →  **INI Decode Options** from **Configure → Protocol and GUI Options** to open the **Edit INI** screen. Click on Edit INI, this will invoke PacketScanProt.ini file in the Notepad
- In the ini file search for **#SCTP\_PORT\_FLAG\_INDEX** and enter the value for SCTP ports on which **GSMAoIP** signaling is known to receive as given below:
  - **SCTP\_SRC\_GSMAoIP\_MIN** = 0
  - **SCTP\_SRC\_GSMAoIP\_MAX** = 65535
  - **SCTP\_DST\_GSMAoIP\_MIN** = 0
  - **SCTP\_DST\_GSMAoIP\_MAX** = 65535



### Note:

- The values shown here represent generic minimum and maximum values.
  - User can enter the exact minimum and maximum port number range as required. If the user doesn't know the port number, configure minimum and maximum port range as given above.
- In the ini file search for **#PROCESS\_IUCS\_GSMA\_CALLS** and enter the **IuCS\_GSMA\_CALLS\_PROCESS\_FLAG** as 1
  - Save and close the **PacketScanProt.ini** file
  - Close the **PacketScan™** application and invoke again to apply the changes done for PacketScanProt.ini.
  - Select **Capture → Stream/Interface Selection** and enable the Ethernet card on which packet needs to be captured
  - Select **Capture → Capture File Options** and enable **Circular Capture Buffer**
  - Select **Capture → Capture Filter** option, click **SCTP** in the Filter Selection and check **Filter all SCTP data**. Do not activate any other filters in the **Capture Filter**.
  - From the **PacketScan™** main menu, select **Call Detail Records → Build Call Detail Records**
  - From the **PacketScan™** main menu, select **File → Start Real-time** or Click **Start Real-time**  icon from the toolbar. (Or Check Start real-time tracing option provided under **Configure → Startup Options**, and then click **Execute**)
  - To playback an HDL file containing packets, use **PacketscanUtilities** application. From the GL installation directory double-click **PacketscanUtilities** application.
  - Select **Utilities > HDL Playback** from the menu.
  - In the **Device** option select required NIC card

- In the **Select HDL File** option click on browse button to browse and select **C:\Program Files\GL Communications Inc\PacketScan\Examples\GSMAoIP\GSM-A.hdl** file from the GL installation directory
- Enable **Maintain Timing** option and click **Start**
- Observe the **GSM-A** decodes displayed in PacketScan™ analyzer summary and detail views.
- From the **PacketScan™** main menu, select **Call Detail Records** → **Open Call Detail Records** to view Call Trace.
- From the **PacketScan™** main toolbar, click on the PDA icon  to invoke PDA (Packet Data Analyzer) and view detail analysis of each session, call graphs and quality scores for the captured GSMA calls.



**Note:**

- If you are unable to view the real-time decodes, verify if the Windows® Firewall is enabled. You should **Turn off Windows Firewall** on Windows® and on any 3<sup>rd</sup> party Anti-Virus software that may be installed on the PC to make sure that Firewall is not blocking any packets or frames.