

It is assumed that the PacketScan™ Analyzer Software and License installations (PKV100) are already performed referring to the Software Quick Installation Guide ([PacketScan-Quick-Install-Guide.pdf](#)). Now proceed with the verification steps below for capturing and analyzing Skinny protocol.

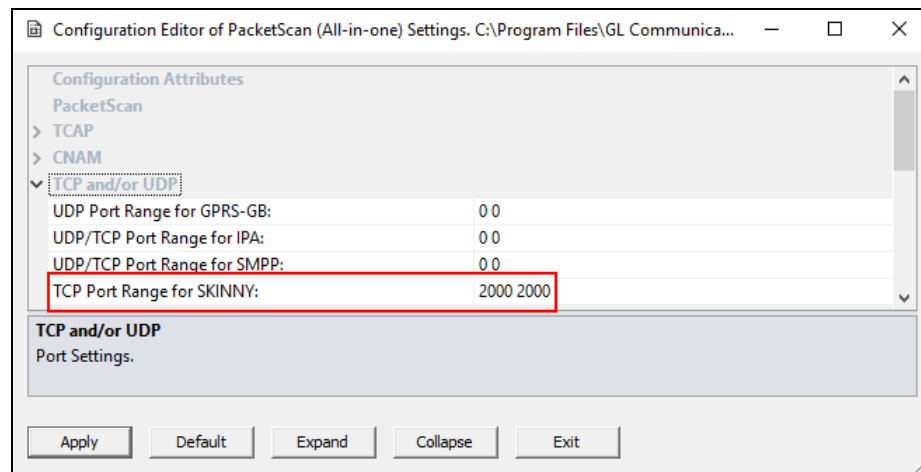
Verification



- Double click on the **PacketScan™** shortcut icon created on the desktop to launch the application.

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

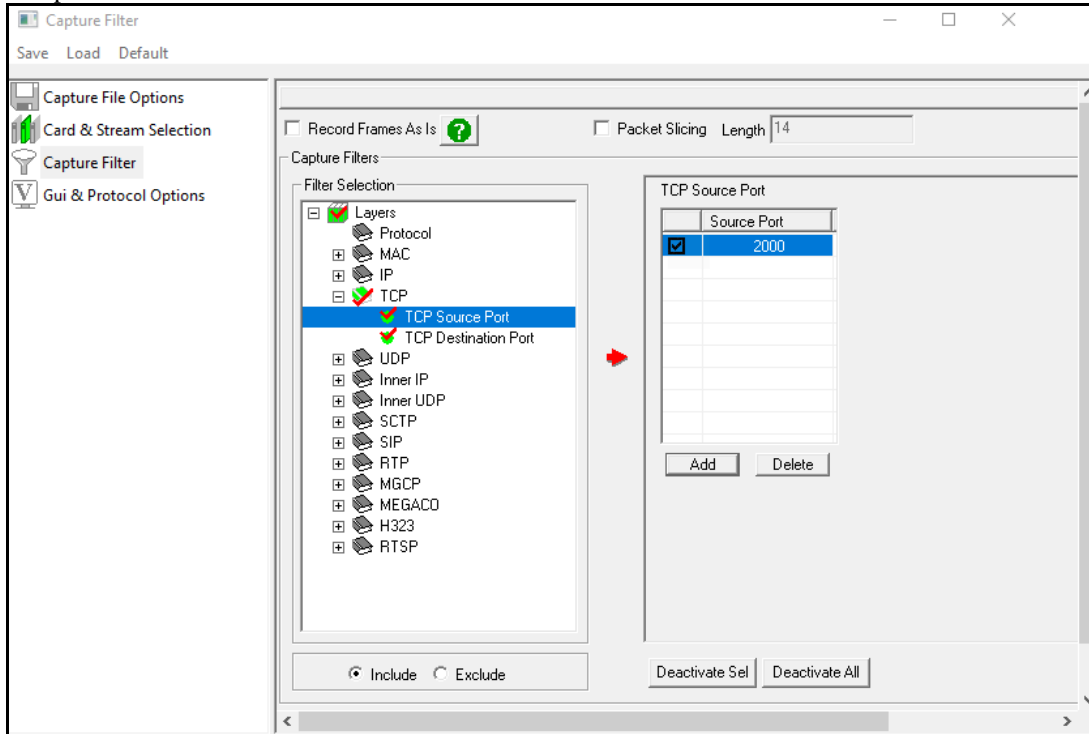
- From the **PacketScan™** main menu, select **Configure → Settings**. This will invoke **Configure Editor of PacketScan Settings** window.
- Expand **TCP and/or UDP** option and for **TCP Port Range for SKINNY** enter port range as **2000**. Click on **Apply** and **Exit**. Refer to the below screenshot.



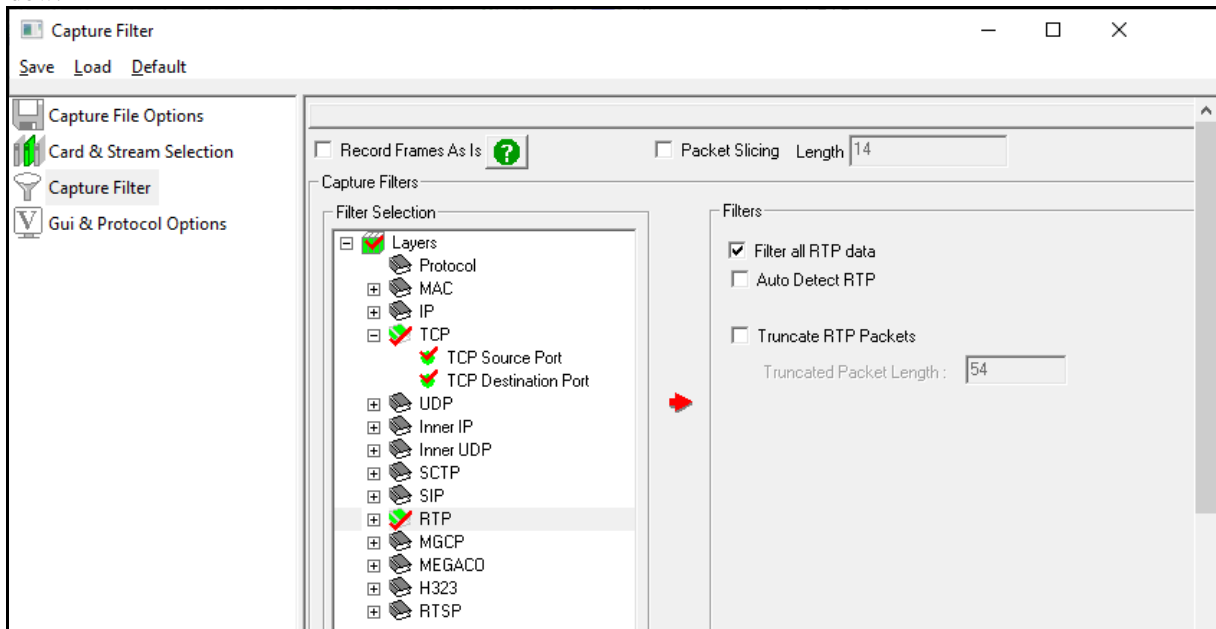
Note:



- The values shown here represent generic minimum and maximum values.
- PacketScan™ SKINNY protocol does not support Call Detail Records.
- A warning message will appear to restart the PacketScan Analyzer. Click on **OK**.
- Close the **PacketScan™** application and invoke again to apply the changes as per configuration settings.
- Select **Capture → Stream/Interface Selection** and enable the Ethernet card on which packet needs to be captured

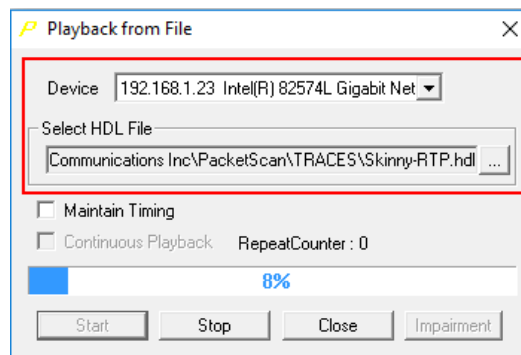
- On the left pane, select **Capture File Options** and verify that **Circular Capture Buffer** is checked.
- Now, on the left pane, select **Capture Filter** option, double-click on **TCP** in the Filter Selection, select **TCP Source Port**, click on **Add** and enter the TCP source port as **2000**. Similarly, select **TCP Destination Port**, click on **Add** and enter the TCP destination port as **2000**.



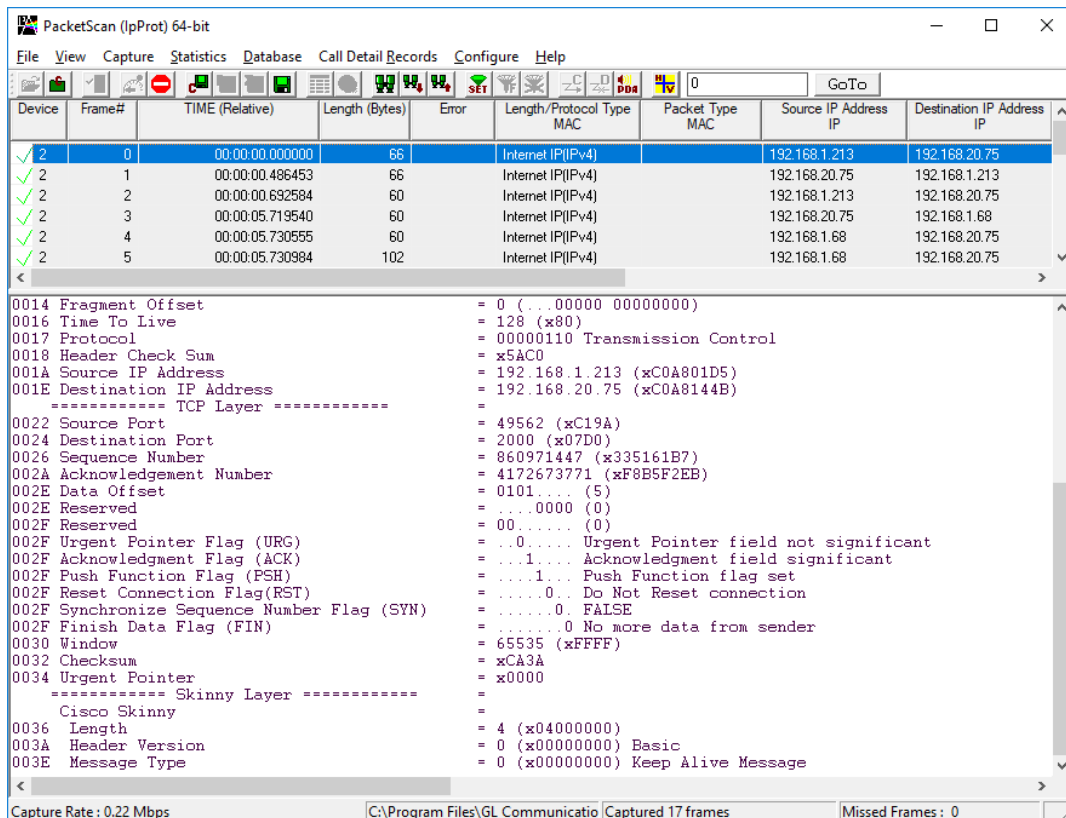
- Similarly, in the **Capture Filter** option, select **RTP** and check **Filter all RTP data**. After Filter configuration, close the window.




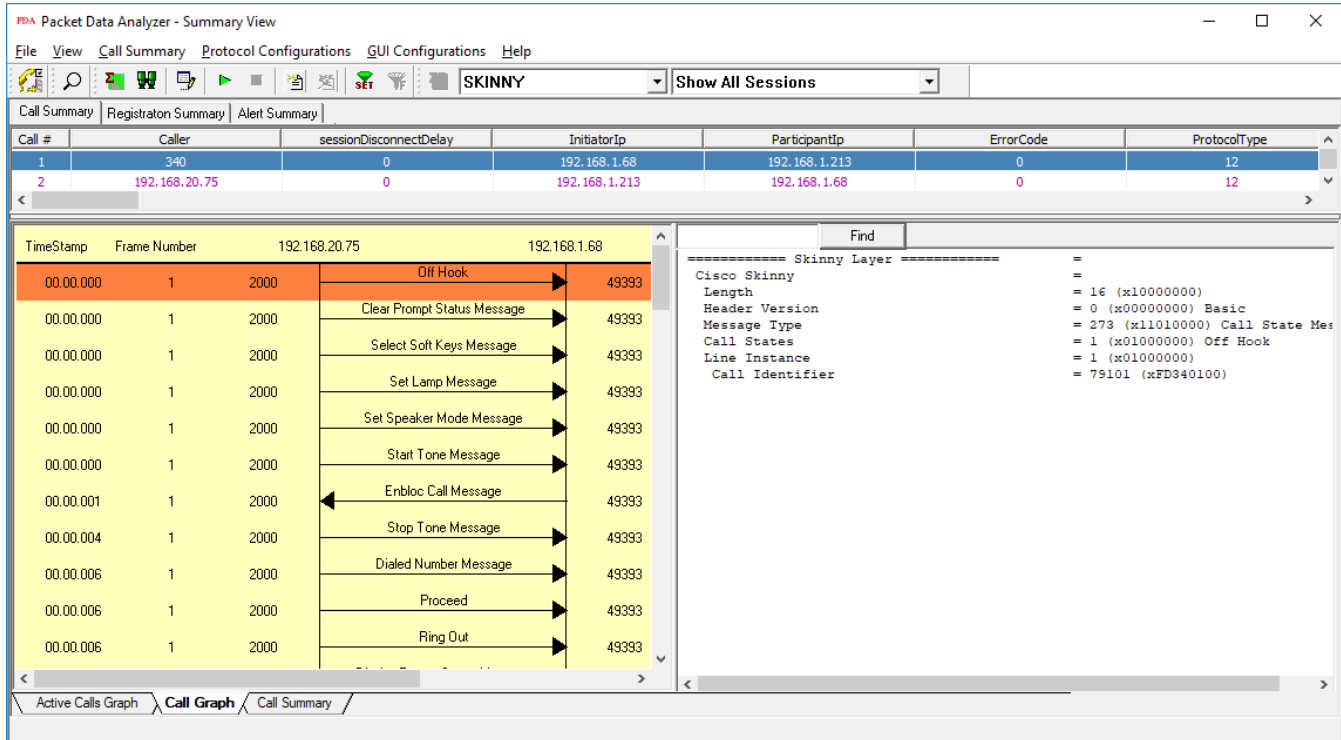
- From the **PacketScan™** main menu, select **File → Start Real-time** or Click **Start Real-time**  icon from the toolbar.
- Generate traffic by playing HDL file using **PacketScanUtilities** application. From the PacketScan installation directory (C:\Program Files\GL Communications Inc\PacketScan) double-click on  **PacketScanUtilities** application. This will invoke PacketScan Utility application.
- Select **Utilities → HDL Playback** from the menu.
- In the **Device** option, from the drop-down list, select NIC card on which PacketScan™ Real-time capture is configured.
Note: Ensure that selected NIC card is enabled in PacketScan™ under **Capture → Stream/Interface Selection**.
- In the **Select HDL File** option click on browse button to browse and select **C:\Program Files\GL Communications Inc\PacketScan\Traces\SKINNY-RTP.hdl** file from the PacketScan installation directory.
- Ensure that **Maintain Timing** option is Unchecked and click on **Start**.



- observe the **Skiny** decodes displayed in PacketScan™ analyzer summary and detail views.



- From the **PacketScan™** main toolbar, click on the PDA icon  to invoke PDA (Packet Data Analyzer), from the drop-down protocol list select **SKINNY** to view detail analysis of each session, call graphs and quality scores for the captured **SKINNY** Traffic.



The screenshot shows the Packet Data Analyzer interface. At the top, there's a menu bar with 'File', 'View', 'Call Summary', 'Protocol Configurations', 'GUI Configurations', and 'Help'. Below the menu is a toolbar with various icons and a dropdown menu set to 'SKINNY'. A 'Show All Sessions' button is also visible. The main area is divided into two panes. The left pane shows a table of call sessions:

Call #	Caller	sessionDisconnectDelay	InitiatorIp	ParticipantIp	ErrorCode	ProtocolType
1	340	0	192.168.1.68	192.168.1.213	0	12
2	192.168.20.75	0	192.168.1.213	192.168.1.68	0	12

The right pane shows a detailed view of a packet capture for the 'Cisco Skinny Layer'. The packet list on the left shows various messages like 'Off Hook', 'Clear Prompt Status Message', 'Select Soft Keys Message', etc. The right pane shows the details of a selected packet:

```

----- Skinny Layer -----
Cisco Skinny                               =
Length                                    = 16 (x10000000)
Header Version                             = 0 (x00000000) Basic
Message Type                               = 273 (x11010000) Call State Mes
Call States                               = 1 (x01000000) Off Hook
Line Instance                              = 1 (x01000000)
Call Identifier                             = 79101 (xFD340100)
  
```



Note:

- You should **Turn off Windows Firewall** on Windows® and on any 3rd party Anti-Virus software that may be installed on the PC to make sure that Firewall is not blocking any packets or frames.