Quick Verification

Functional verification requires two systems with PacketCheck™ and required licenses installed on each PC and are connected in the LAN through a switch for Layer 3 testing using an Ethernet cable. The two systems should have IP addresses assigned. For example, refer to the below figure.

- Invoke PacketCheck™ application on both PC #1 and PC #2. Double click on the PacketCheck shortcut icon created on the desktop (for 32 bit). Similarly, for 64-bit application, double click on the shortcut icon created on the desktop.
- On both the PCs, start PacketCheck™ application in Normal mode.
- On PC #1, click on Add to add a stream. For example, Stream1.
- Configure the added stream with following parameters: Layer, MAC, IP, Payload, and Tx Parameters. For sample configuration of these parameters refer to the below figures.
- In MAC tab, use I/F Addr option to detect the Source MAC address (PC #1) and use Resolve option to detect the Destination MAC address by entering the IP address of PC #2.
In IP tab, use I/F Address option to detect the IP address automatically and configure the required Destination IP address.
• On PC #2, click on **Add** to add a stream. For example, **Stream1**.
• Configure the added stream with following parameters: Layer, MAC, IP, Payload, Tx Parameters as shown in the below figures.
• In MAC tab, use I/F Addr option to detect the Source MAC address (PC #2) and use Resolve option to detect the Destination MAC address by entering the IP address of PC #1.
On PC #2, click on **Start** to start Rx traffic.
On PC #1, click on **Start** to start Tx traffic.
Observe the Tx and Rx statistics on PC #1 and PC #2 as shown below.

Observe that **Tx** and **Rx** rates are approximately same. On PC #2, observe that **Bit Error Rate** is 0 and **Error Status** is showing as **SYNC**.

**Troubleshoot**

Reasons why the **Verification Step** might fail are various:

➢ Intermittent Frame Errors or Bit Errors generally indicates faulty equipment, either due to the Ethernet cable, the NICs or both.

➢ Complete failure to SYNC could be a configuration issue, please review your settings. It could also be due to firewalls or other forms of security software. Please disable any security software if possible and try again.

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