HST-3000 Ethernet Layer 3 Traffic Testing

*The following procedure outlines how to configure the HST-3000 utilizing the Electrical (RJ-45) Ethernet Interface to conduct a bit error rate test. Please read entire procedure **BEFORE** starting.*

Menu selections are made from the HST-3000 front panel either by using the keypad to select the option number OR by using the arrow keys to scroll to the desired selection and pressing the OK key.

*Please note that this same procedure may be used for Optical (MMF, SMF) Ethernet Interface, substituting appropriate Fiber Optic Connectors and selecting the **ETH OPTIC** soft key in Part 1, Step 2.*

HST-3000 Front Panel:

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1 866 228-3762
tac@jdsu.com

Part 1: Configuring the HST-3000

Step	Action	Details
1.	Power	Press the green Power Key to turn on the HST.
2.	ETH ELEC	Press the **ETH ELEC** Soft key to test 10/100/1000 Mbps Ethernet via the SIM RJ-45 interface.
3.	Terminate	Press the **1** key on the Keypad to select **Terminate**.
4.	Test	Press the **2** key on the Keypad to select **Layer 3 IP Traffic.**
5.	Configure	Press the **Configure** Navigation key to configure test settings. Press keys 0 through 9 on the Keypad, making appropriate selections for Autonegotiation, Encapsulation, Load, and IP Addressing Information:
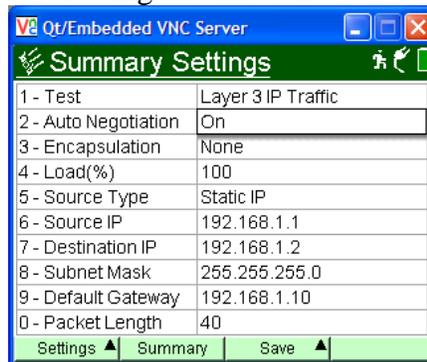
6. Advance settings may be configured by pressing the **Settings** Soft key:

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Part 2: Connecting to the Circuit

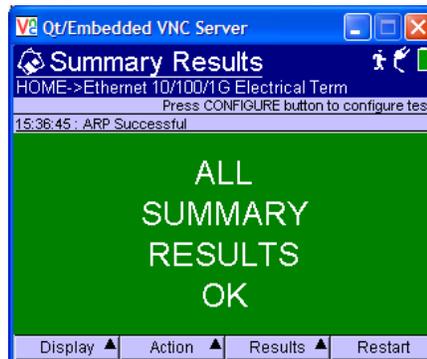| Step	Action	Details
1.	Home	Press the **HOME** Navigation Key to return to the Results Screen.
2.		Connect the HST-3000 to the line under test using the Electical RJ-45 connector labels R/T 1 on the left side of the SIM.

Electrical RJ-45 Connectors   Optical SFP connectors

Part 3: Verifying Connectivity

| Step	Action	Details
1.	Sync LED	A **green** Sync LED indicates the Ethernet link is active
2.	Restart	Press the Restart soft key to reset counter and alarms. **ALL SUMMARY RESULTS OK** should be displayed. "ARP Successful" should also be displayed.

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Part 4: Performing the Test

Step	Action	Details
1.	Start Traffic	Press the **Action** soft key and select **Start Traffic**. Verify that Traffic is also started at far end test set.
2.	Data LED	A **green** Data LED indicates traffic is being received
3.	Insert Error	Press the **Action** soft key again, and then select **3-Insert Single FCS Error**. Verify that the Error LED turns red and "**Lost Frame 1"** is displayed on the far end test set.
4.	Restart	Press the Restart soft key to reset counter and alarms. **ALL SUMMARY RESULTS OK** should be displayed.
5.	Test	Allow HST-3000 to perform test for desired amount of time.
6.	Display	Press the **Display** soft key to select Results views. Verify that test results in **Link Stats** and **Error Stats** meet requirements for the line under test.

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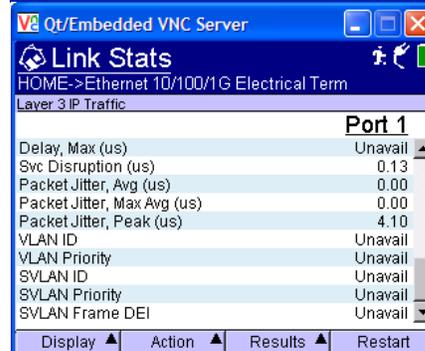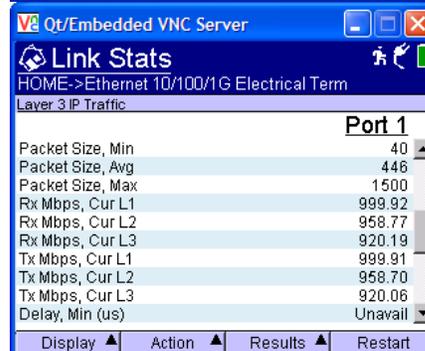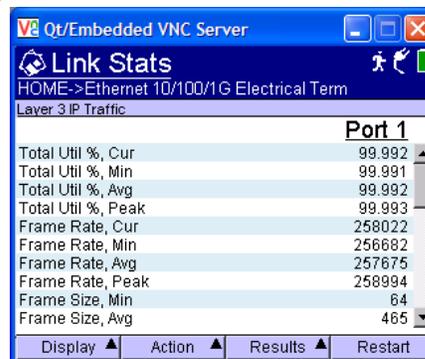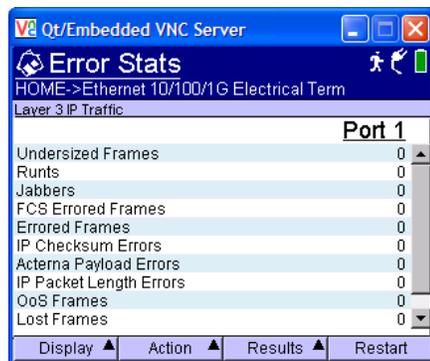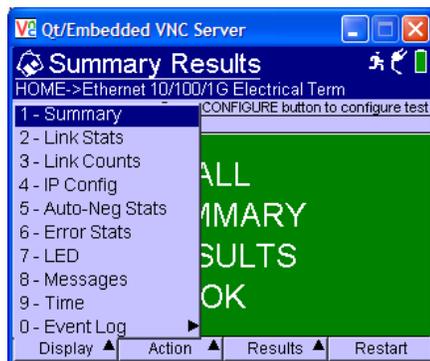
7.   Display   Press the **Display** soft key to select additional Results views, if
                       required to troubleshoot the line under test:
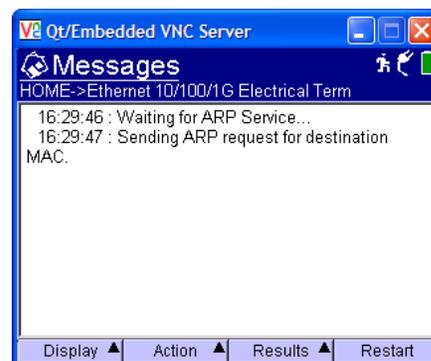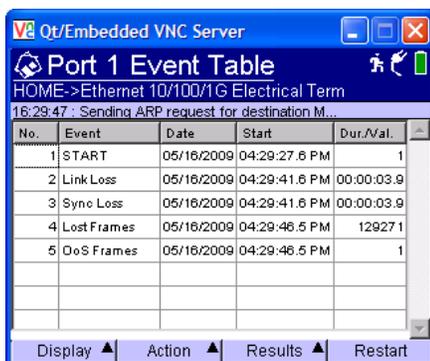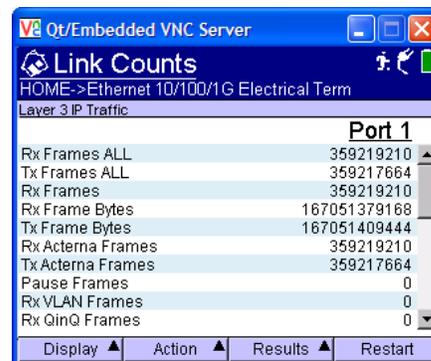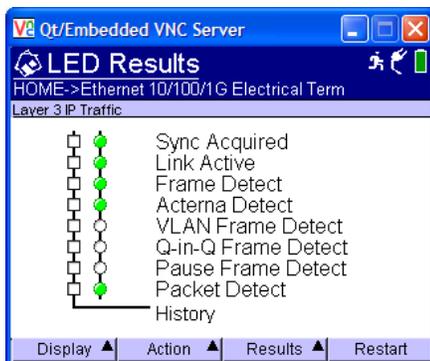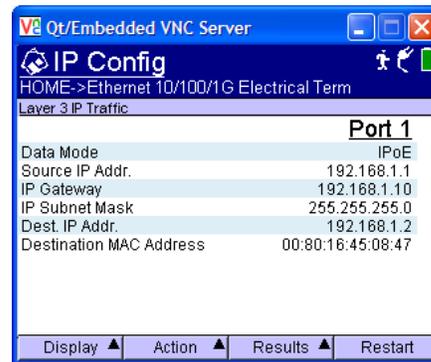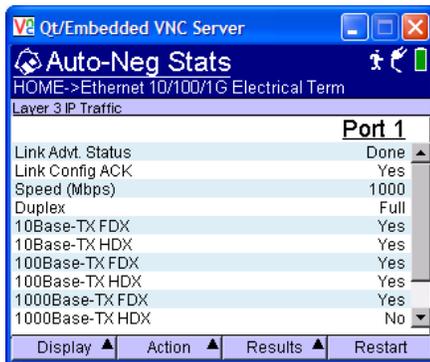
8.   Save   Press the **Results** soft key and select **Save** to save test results.

9.   Action   Press the **Action** soft key and select **1-Stop Traffic**.

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