



How to Perform a Packet Test

Doc. HT101

Overview

A packet test is a method of testing the coverage of the wireless receiver of the VT2000. It is done by initiating a packet test on an input device and viewing the results on the system. The input module sends out numbered sequential packets. This is used to test the communication reliability from the module to the system. The goal is 100% throughput. Anything less should be increased by use of a repeater. The longer the packet test runs, the better the test. Packet Tests are supported with both Data Input Modules and Reason Code Modules.

Starting a Packet Test with the Data Input Module

In order to put the DI module into packet test mode, perform the following:

1. Power up and go to the main menu of the Data Input Module. This can be done by hitting the back arrow if it isn't at the main menu.
2. Press *7388#. This should go to the Setup menu.
3. Use the down arrow to highlight Packet Test and then push the round select button to start it.
4. The packet test should start. You can use the up/down arrows to change the interval of the packets. The default is 10 seconds.
5. Leave the box in this mode for a period of time. An hour is a fairly good estimation, but longer is always better.
6. When you want to get out of the packet test module press the back button a couple of times to get back to the main menu.

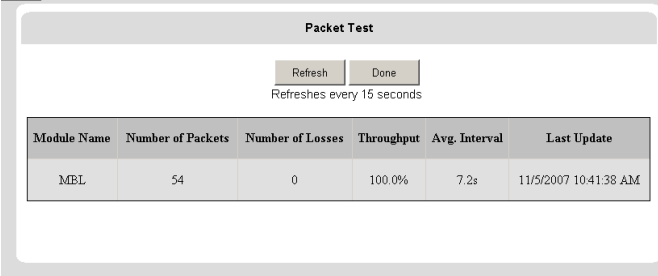
Starting a Packet Test with the Reason Code Module

In order to put the RCM into packet test mode, perform the following:

1. Power up and go to the main menu of the Reason Code Module.
2. Press and hold the Clear button for approximately 10 seconds.
3. The packet test should start. You can use the up/down arrows to change the interval of the packets. The default is 10 seconds.
4. Leave the box in this mode for a period of time. An hour is a fairly good estimation, but longer is always better.
5. When you want to get out of the packet test mode, press the back button to return to the main menu.

Viewing Packet Test Results

In order to view the results of the packet test, we need to access the Web Interface of the system. This can be done by opening up internet explorer and entering in the systems address in the URL. Log in and go to the base menu. Then go to the Diagnostics section and then select packet test. You should see a screen that resembles:



The screenshot shows a web interface titled "Packet Test". At the top, there are two buttons: "Refresh" and "Done". Below the buttons, it says "Refreshes every 15 seconds". The main content is a table with the following data:

Module Name	Number of Packets	Number of Losses	Throughput	Avg. Interval	Last Update
MBL	54	0	100.0%	7.2s	11/5/2007 10:41:38 AM

- **Module Name** – This should contain the name of the module performing the packet test.
- **Number of Packets** – This should be the amount of packets that have been sent across so far during the test. We want to make sure a couple hundred packets go through in order to assume we have a valid test.
- **Number of Losses** – This is the number of lost packets. This should be 0 for 100% reliability.
- **Throughput** – This is the percentage of good packets to total packets. We want to strive for 100%.
- **Average Interval** – This is the average interval in between packets. This should be representative of the interval on the module. The minimum interval is around 5 seconds.
- **Last Update** – This is the time stamp of the last update that came through. This should be fairly close to the current time if the test is still running.