



VoIP (RTP) Test Server Requirements

Overview

The 860 DSPi VoIP RTP test server has been enhanced to include all of the throughput menu tests. You can now point the VoIP (RTP) test menu, ping menu, and throughput menu at a single server in the system. This allows the customer to maintain complete control over their test environment. Other enhancements are increased security and the customization of communication ports.

Minimum System Requirements

- Microsoft Windows 2000 ®, XP Pro ®, or Server 2003 ® operating system
- 1 GHz Intel Pentium III processor
- 128 MB RAM
- 100 MB available disk space

Installation

The software installation is intuitive, and is as simple as running “Setup.exe” on the Trilithic VoIP MOS (RTP) test server installation CD and following the setup wizard instructions. The server should be located on the network as close to the PSTN interface as possible, thereby allowing as complete a test of cable system network as possible.

The IP address and subnet of the server must be within the range of the 860 DSPi's performing the test, or if not, the server must have a routable IP address. Once the IP address for the server is determined and configured, the 860 DSPi that will be performing the test using the server must be configured to test at that IP address. The 860 DSPi MOS (RTP) test is preconfigured with a default test address of “207.67.51.46” which is a server at Trilithic headquarters. If the 860 DSPi has Internet connectivity, the test can be run to that server, but the results will include the effects of network components that are outside the cable system.

Using the Trilithic VoIP (RTP) Test Server Software

After successful installation, a small Trilithic icon will appear near the Windows clock (normally in the lower right corner of the screen) to indicate that the server is running. There are no programs to run, and there are no user configurable settings.

For Additional Help Contact
Trilithic Applications Engineering
1-800-344-2412 or 317-895-3600
support@trilithic.com or
www.trilithic.com

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Tests

1. PING reflector
2. VoIP (RTP) test – with and without UGS
3. Throughput TFTP upstream and downstream
4. Throughput HTTP upstream and downstream
5. Throughput UDP upstream and downstream
6. Throughput UDP high speed upstream and downstream – with CI-4 and high speed test option

Security

- No files are created or destroyed. All free HTTP and TFTP test server applications create files on the server or serve up files from the server which was a security concern from a malicious virus attack perspective. This application simply creates groups of random memory and never accesses the hard disk.
- Customizable ports. Most all free HTTP and TFTP test server applications use well known internet ports like port 80 and port 69 which expose the servers to standard virus attacks. This application allows the customer to choose the ports and thus hide them from the standard internet community. A side effect of this is that this application can now be installed on the same server as a standard web service such as a web server, TDM server, or cable modem TFTP server.

New Tests

- The new high speed throughput tests allow you to test the throughput rate up to 40 Mbps, which is at the maximum of a 256 QAM downstream CMTS channel.
- The user can also select fixed throughput rates such as 5, 10, 15, 30, and 40 Mbps to test various tiered service customers. Trilithic recommends testing at both the desired speed and one speed higher to prove that the cable modem is provisioned correctly.

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