Ethernet/IP BERT & Throughput Testing Made Easy

GL Communications Inc., announced today the release of Enhanced PacketCheck™ software

Gaithersburg, Md. (Vocus) July 8, 2009 -- GL Communications Inc., announced today the release of Enhanced PacketCheck™ software that supports RTD (round trip delay), Loopback at all levels, including Ethernet frames and IP/UDP packets, and a simple to use GUI interface. Briefing the news to the press, Mr. Vijay Kulkarni, CEO of the company said, “GL's enhanced PacketCheck™ is a PC based Ethernet / IP BERT and Throughput test tool that is very easy to use. It truly takes confusion out of Ethernet testing at all protocol layers - from raw Ethernet frames to IP/UDP packets. It can be used as a general purpose network performance analysis tool for 10Mbps, 100Mbps and 1Gbps LANs and WANs”. He added, “PacketCheck™ makes use of the PC's network interface card (NIC) to transmit and receive Ethernet packets over the network. Throughputs up to 500 Mbps can be easily tested”.

Mr. Kulkarni, further added, “PacketCheck™ allows monitoring of end to end performance such as total packets, packet loss, out of sequence packets, errored packets, correct pattern frames, pattern sync status, and protocol statistics (Total IP packets, UDP Packets, IP/UDP Checksum errors etc ). It can operate on any of the three layers - Layer 2 (Data Link), Layer 3 (Network), and Layer 4 (Transport) of the OSI reference model”.

Important Enhancements Introduced:

• Loopback Mode

PacketCheck™ can now operate in Loopback mode in addition to its simultaneous Tx/Rx modes. PacketCheck™ can perform loopback at the Ethernet, IP and UDP levels. This powerful feature can prove extremely useful in diagnosing problems.

• Calculation of Round Trip Delay (RTD)

PacketCheck™ now calculates the average Round Trip Delay. Round Trip Delay is the total time taken for a packet to travel to the remote end and back to the point of origin. Round Trip Delay can be calculated using 2 PacketCheck™ applications - one at the local end running in Tx_Rx (Transmit and Receive) mode and another at the remote end, running in Loopback mode. Round Trip Delay is reported in microseconds.

• Command Line Interface

PacketCheck™ can be operated through command line in addition to the simple to use GUI.

Other features include:

• Test Ethernet traffic of up to 500Mbps bandwidth
• Generates full duplex IP, UDP, or Ethernet frame traffic to transmit and/or receive traffic on any of the three layers (Data Link / Network / Transport) with on-demand bandwidth
• Bit-error-rate testing (BERT) on layer 2, layer 3, and layer 4 with detailed runtime statistics for both Tx and Rx
Customizable 2 byte test patterns
Customizable protocol headers like MAC Source/Destination address, Length/Type field, IP Source/destination address, and UDP Source/Destination Port

For comprehensive information on the application, please visit PacketCheck™ web page.

About GL Communications Inc.

Founded in 1986, GL Communications Inc. is a leading supplier of test, monitoring, and analysis equipment for TDM, Wireless, IP and VoIP networks. Unlike conventional test equipment, GL's test platforms provide visualization, capture, storage, and convenient features like portability, remobility, and scripting.

GL’s TDM Analysis & Emulation line of products includes T1, E1, T3, E3, OC-3, STM-1, analog four-wire, and analog two-wire interface cards, external portable pods, and complete system solutions. Capabilities include voiceband traffic analysis and emulation across all traffic types (voice, digits, tones, fax, modem), all protocols (ISDN, SS7, GR-303, Frame Relay, HDLC, V5.X, ATM, GSM, GPRS, etc.), and with capacities up to thousands of channels.

GL’s VoIP and IP products generate / analyze thousands of calls / traffic simultaneously with traffic types such as frames, packets, voice files, digits, video, tones, noise, and fax using G.711, G.729, AMR, EVRC, GSM and a range of other codecs. Additional features include visual analysis, real-time listening, and recording. The product line also includes Ethernet / IP Testing capability that simulates and checks frame transport and throughput parameters of Ethernet and IP networks, including delay, errors and other impairments.

GL's Voice Quality Testing (VQT) product line complements all of GL's products. Using ITU-standard algorithms (PAMS, PSQM, and PESQ), GL's VQT provides a widely excepted solution across the telecom industry. Voice Quality Testing across multiple networks (T1, E1, T3, E3, OC-3, VoIP, Wireless, and Landline) are all available.

GL’s Wireless Products perform protocol analysis and voice quality assessment on GSM, CDMA and UMTS networks. Connections can be made to any wireless phone with automated call control, GPS mapping and real-time signal measurements.

GL’s Echo Canceller testing solutions provide the broadest range of simulation and analysis, including compliance testing per G.168 and G.160 across TDM, IP, VoIP and Wireless networks. GL’s wireless VQT solutions help assessing impairments to voice quality such as poor mobile phone quality, voice compression and decompression algorithms, delay, loss and gain in speech levels, noise, acoustic and landline echo, and other distortions are easily assessed and accurately measured.

GL’s Handheld data testers can test a wide variety of communications facilities and equipment including T1, fractional T1, E1, fractional E1, T3 and E3 modems, multiplexers, CSU, DSUs, T1 CSUs, DTUs, NTUs and TIs and more. The testers provide convenience, economy, and portability for almost any interface, including RS232, RS-422, RS-530, X.21, T1, E1, T3, E3, and many others.

GL’s Network Surveillance and Monitoring products include Probes for TDM, IP, VoIP, ATM, and Wireless networks. An open standards based approach provides a scalable, feature rich, real-time access to network.
intelligence. Centralized or distributed access, efficient transport and database loading allow compatibility with 3rd party and standards based monitoring systems.

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