FAX & MODEM Testing

- Voice, Fax, and Modem Capture, Decode, and Analysis
- PacketScan™ (over Packet Networks)
- CCA (over 2-wire and TDM Networks)
- GLInsight™ (over 2-wire, 4-wire, and Packet Networks)
- Voice Recorder with DUAL UTA HD (over 2-wire)
- VBA and FaxScan™ (over 2-wire, 4-wire, and Packet Networks)
- Fax Simulator (XXFT0) using VQuad™ DUAL UTA HD or VQuad™ Probe HD (over 2-wire, and 4-wire Networks)
- Fax Simulator (XXFT0) using tProbe™ FXO/FXS (over 2-wire)
- Fax Simulator (XXFT0) using any GL’s T1 E1 analyzer platform (over T1 E1 Networks)
- Bulk FAX and Modem Generation using MAPS™ CO (over 2-wire and 4-wire)
Fax Capture, Decode, and Analysis using PacketScan™
(Over Packet Networks)

PacketScan™ software supports capturing and decoding of Fax (T.38 data) calls over VoIP. The fax decodes can be viewed in the form of T.38 call graph and call summary with decoded information for all T.38 messages received on the call. T.38 has been enhanced to reassemble the fragmented data and to identify the T.30 message from it. Identified T.30 message is displayed in the T.38 ladder diagram. The captured fax calls by PacketScan™ can also be analyzed using GLInsight™ by saving the fax calls directly in (*.PCAP) Ethereal file format.

For more details, refer to [http://www.gl.com/packetscan.html](http://www.gl.com/packetscan.html)

Voice, Fax, Modem Capture, and Analysis using Call Capture and Analysis Software
(Over TDM and 2-wire Networks)

CCA software can non-intrusively record calls directly from T1/E1 and Analog 2-wire lines. Then the captures can be analyzed using other offline tools. Voice/ Fax / Modem traffic from the 2-wire Analog interface.

- Fax traffic - V.32 / V.17, V.27, V.29
- Modem traffic - V.22 forward/reverse channel, V.34 & V.90 uplink, Binary V.90 downlink, FSK

For more details, refer to [http://www.gl.com/callrec1.html](http://www.gl.com/callrec1.html)
Fax and Modem Decode and Analysis using GLInsight™
(Over 2-Wire, 4-Wire, and Packet Networks)

GL Insight™ enables decoding and analysis of pre-recorded modem and fax transmissions. The transmission signals can be recorded from PSTN or IP media.

GL Insight™ receives the recorded modem or fax transmissions in one of the two ways:

- As raw signal files (PCM files) - in either mono or stereo format
- As IP capture files - created by capturing devices or by software

GLInsight™ demodulates the raw transmissions and presents the decoded data in an easy to understand format. It produces extensive log files with all relevant debugging information for easy event tracing which in turn provides insight to potential sources of problems.

For more details, refer to http://www.gl.com/glinsight.html

2-Wire Voice, Fax, Modem Recorder with DUAL UTA

GL's Voice Recorder Software with Dual UTA HD offers a solution for Voice/ Fax / Modem traffic capture over a 2-wire analog interface. One can non-intrusively 'tap' into the analog 2-wire line via the RJ11 interface and capture the bi-directional voice. This Voice Recorder Software is primarily used in conjunction with Dual Universal Telephony Adapter (Dual UTA HD) hardware device to capture the voice/modem/fax data manually / automatically from the 2-wire Analog interface.

For more details, refer to http://www.gl.com/ voicerecorder.html
FaxScan™
(Over 2-Wire, 4-Wire, and Packet Networks)

FaxScan™ is a command line fax decoder/demodulator application that processes 2-Wire or 4-Wire captures and analyzes voiceband traffic files for fax traffic. FaxScan™ application is used for processing captured files and produces the Fax TIF image and other transmission information. The application is available as FaxScan™ (VBA038) and FaxScanT38™ (PKV104). The VBA038 has two versions – one, as a stand-alone command-line fax analysis application and other, integrated as a module within GL's Voice Band Analyzer application. FaxScanT38™ or the PKV104 is a stand-alone command-line fax analysis application for packet captures. For more details, refer to http://www.gl.com/ip-tdm-fax-decoder.html

FaxScan™ with VBA
(Over 2-Wire, 4-Wire, and Packet Networks)

VBA FaxScan™ module (requires VBA038 license) can be used to analyze both 2-wire and 4-wire voiceband captures for Fax traffic and output fax signaling frames in a log file and fax image in TIFF format. The FaxScan™ module provides statistics for Fax traffic analysis including Fax Status, Standard, Data Rate, Resolution, Encoding, Page Size, Error Lines, Total Lines, Total Bytes, and Total Pages.

For more details, refer to http://www.gl.com/voicebandanalyzer.html
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Client Server Based Fax Simulator (XXFT0) (Over TDM Networks)

WCS Fax module transmits the information as electrical signals through the T1/E1 (telephone system) where the contents (text or images) as a single fixed graphic image, converting it into a bitmap. The receiving end reconverts the coded image and creates a copy of the document.

Supporting Fax and Modem standards are T.30, V.17, V.27, V.29, V.33, and V.34.

run task "FaxSimulatorT(E)1:StartFaxSim";

This task initiates the FaxSimulator Server. FaxSimulator Server runs as a task within GL Client Server Framework.

For more details, refer to http://www.gl.com/client_server.html

Fax Emulation using VQuad™ DUAL UTA HD or VQuad™ Probe HD

VQuad™ coupled with Dual UTA HD support sending and receiving of up to 4 independent and simultaneous T.30 faxes. TX and RX fax rate from 2400 bps to 33,600 bps with V.34 are fully supported. Fax emulation is fully automated using VQuad™ scripts and provides all pertinent real-time fax messaging with proper time sequences.

GL’s VQuad™ Fax Emulation supports sending and receiving of up to 4 independent and simultaneous T.30 faxes over the Dual UTA HD hardware platform. The user can configure the TX and RX fax rate from 2400 bps to 33,600 bps with V.34 fully supported. Interfaces supported for fax generation include 2-wire FXO, 4-wire balanced, 4-wire Handset, PTT.

For more details, refer to http://www.gl.com/fax-emulation-using-vquad.html
Fax & MODEM Testing

Fax Simulator (XXFT0) using any GL’s T1 E1 analyzer platform (over T1 E1 Networks) (over 2-wire and 4-wire)

GL has recently introduced single and bulk (100’s) call Fax Simulator (XXFT0). This software is capable of transmitting and receiving over many T1 E1 timeslots or through two-wire FXO and FXS lines. The software can emulate many "virtual fax machines" – transmitter as well as receiver. All variations are supported.

Fax Simulator (XXFT0) can be used with any GL Protocol Emulation tools such as MAPS™ CAS emulator, MAPS™ ISDN emulator, and MAPS™ SS7 emulator to simulate complete real time Fax calls.

For more details, refer to http://www.gl.com/wcs-fax-simulation-and-analysis-over-t1-e1.html

Bulk FAX and Modem Generation using MAPS™ Central Office (CO) (over 2-Wire and 4-Wire)

MAPS CO provides two methods of generating traffic. External traffic generation implies that analog/digital phones, fax machines, and modems be connected directly to the DCOSS for both generating calls as well as terminating calls. MAPS CO can accept up to 64 analog phones and/or 16 BRI channels. Internal traffic generation is accomplished using the onboard DCOSS DSP resources.

Modem Traffic Generation (V.21, V.23, V.34, V.90, V.92) with up to 96 simultaneous calls. Send/Receive text files with verification of information (MQT). Display modem terminals for manual modem traffic generation.

Fax Generation using V.27, V.29, V.33, V.17 protocols with up to 480 simultaneous calls. Multiple page documents allowed with verification of information (FQT).

For more details, refer to https://www.gl.com/simulation-central-office-co-switching-system-maps.html