GL Communications Inc.

Systems   Telecommunications   Software

818 West Diamond Avenue - Third Floor
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May 2022

PacketScan™ Vs WireShark®

Important Features	GL's PacketScan™	Wireshark®
Product Type	Software based (Windows®)	Software based (Windows®)
Codec Support	✓ Supports wide range of codecs including AMR, AMR-WB, EVRC, EVRCB, EVRCC, EVS, OPUS etc.	Partial ✓ Supports only static codecs like G711, G729 are supported
Voice Quality Metrics	✓ Provides detail voice quality metrics like MOS (Mean Opinion Scores) and R-Factor.	✗
As a Probe for Network Monitoring	✓ Can act as a probe in Network Monitoring Solution. Each probe (PacketScan™) can capture the calls and send CDR (Call Detailed Record) to a central database. These records can later be analyzed through centralized system such as GL's NetSurveyorWeb™ (PKV170) or with NetSurveyorWeb™Lite (PKV169) NetSurveyorWeb™Lite enhances the capabilities of PacketScan™ capability to process large volumes of real-time and historical data, filter for specific calls, build custom statistics and KPIs, and analyze the call detail records (CDRs).	✗
Capture calls based on Filters (most all protocol fields are exposed for filter definition)	✓ Triggers and Actions feature allows filtering out the calls of interest and performing certain actions on the call (such as send email alerts, save call trace, record call, save call detail in CSV formats etc) for further analysis.	✗

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Multi Interface Monitoring	✅ Supports Multi Interface Monitoring for LTE protocol.	❌
Realtime Deciphering	✅ Supports realtime LTE NAS deciphering and realtime IPSec deciphering etc.	❌
Filtering and searching through packets	✅ Robust filtering and searching through packets based on: • IPv4 and IPv6 address range or mask • GTP (Inner UDP, Inner TCP, and SCTP fields)	Partial ✅ Filtering and searching of packets may take more time for huge size traces
Criteria-based voice/trace recording	✅ Criteria-based voice/trace recording based on whitelist numbers or degraded voice quality, failure calls, etc.	❌
Configuring Whitelist Numbers	✅ Provides options to configure the whitelist numbers with wildcards to mark and act on such calls	❌
Generate alerts for certain network conditions	✅ Generates alerts when particular vital parameters go beyond a specified value. The Alert Summary provides an active list of the alerts that have occurred during the test session.	❌

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Infinite Capture	✓ Very robust and captures data for infinite duration.	✓ Limited Capturing
Extracting Fax images for FAX calls	✓ Provides option to extract fax images (in TIFF format) from T.38 fax calls.	✗
SIP Performance Metrics	✓ Includes SIP performance metrics as per RFC 6076	✗
Processing Bulk Calls Maximum Simultaneous Calls	✓ **PacketScan™** supports up to 3000 simulatenous call capture and processing **PacketScan™ HD** version supports high volume calls with traffic. Process up to 20000 simultaneous calls with bidirectional RTP traffic from 1 Gbps to 10 Gbps rate	700 max
Signaling and Traffic Information	✓ Call Summary of each call includes complete signaling and traffic information.	✗
Detail View of the Call Records	✓ Detail view for each call helps in detail analysis of the traffic. This includes options such as inband/outband digit and tone detection, wave graph, spectral display, audio play and record options. Call Summary details could also be saved for a particular call or for all calls.	✗
Graphs for Detail Analysis	✓ Graphical representation of statistics such as Active Calls graph and Call quality graphs for jitter, delay, MOS and R-Factor scores for the current capture.	✗

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Detail Signaling and Traffic Statistics	✓ Complete statistics for the capture including protocol-based statistics and bandwidth consumption indication	✗
SIP User Agent Registrations	✓ SIP Registration Summary displays complete details about captured SIP User Agent registrations.	✗

ED-137 Support	✓ Full Support for ED137 signaling and RTP traffic per ED138 reporting
	• Summary View can be configured to view all ED-137 header fields exclusively
	• Supports decoding of feature specific RTP header extensions (CLD, SQI, RRC and DDM) of ED-137
	• Provides ED137 Statistics such as
	  - Total/Active/Completed/Failed AG and GG calls
	  - Counters for PTT ON, SQU ON, PTTS ON and PTTM ON
	  - - Pilot-Pilot and Controller-Pilot induced SCT (Simultaneous Call Transmission) counters
		✗

Visit www.gl.com/packetscan.html for more details.