

Intuitive UC, VoIP and IMS Protocol and Media Analysis Test Tool Pinpoints Issues and Minimizes Debug Time

Overview

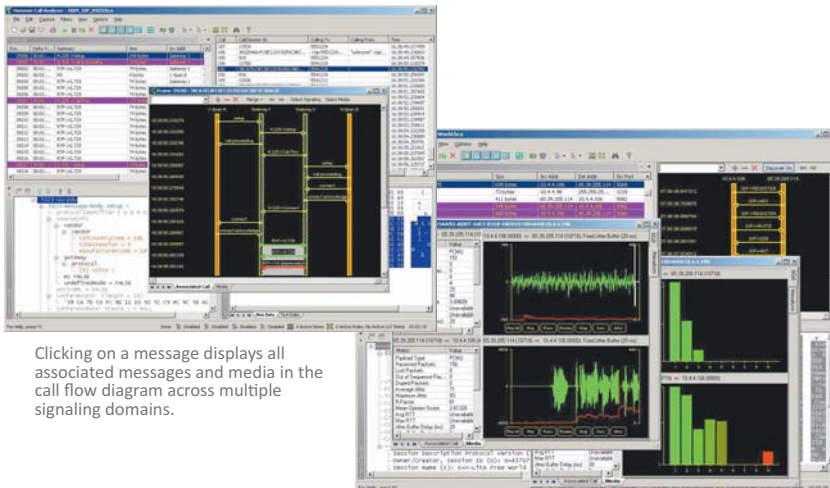
Problem diagnosis in UC, VoIP and IMS environments is often a complex and tedious job. With calls traversing multiple devices – perhaps spanning multiple domains with different protocols – identifying call flow, signaling, and equipment-related problems is difficult in even the most straightforward network implementations. This kind of troubleshooting often requires protocol experts to spend hours sifting through reams of cryptic data collected by multiple capture tools.

Correct issues quickly with Hammer™ Call Analyzer™, the industry’s premier tool for troubleshooting IP-based UC systems. Heralded by TMC Labs as “the dream tool for VoIP developers, VoIP service providers and network administrators,” the analyzer speeds the debug process and dramatically boosts engineering productivity in tracing media and signaling problems through networks.

Solve Problems Faster

The Hammer Call Analyzer is a revolutionary tool for IP network environments. Unlike other network analyzers, the Hammer Call Analyzer is protocol-aware and designed to help engineers find the few needles in the protocol haystack.

For example, the unique multi-stage call flow display walks users through the legs of a particular call. This enables engineers to visualize problems in the way messages are exchanged between the various devices in the call flow to quickly solve those problems. Similarly, comprehensive media analysis tools enable users to quickly visualize and diagnose video and media problems.



Clicking on a message displays all associated messages and media in the call flow diagram across multiple signaling domains.

Media metrics, color-coded waveform display with jitters graph, and Stream Quality Signature display.

- Real-time, multi-stage, multi-protocol, call flow display
- Auto-association of messages across signaling domains
- RTP media quality analysis, MOS scoring for voice and video quality, save and playback
- Full UC, VoIP and IMS protocol decodes
- Intuitive, protocol aware searching, filtering and capture
- Pre-trigger packet capture
- Import standard libpcap traces for analysis
- Export standard formats for documentation

- Configurable filters and buffered triggers help capture just the data you need
- Automatically trace individual call flows to simplify analysis of complex network problems
- Advanced media analysis and displays simplify diagnosis of voice and video quality problems
- Analyze UC, VoIP and IMS calls using a single integrated analysis tool and interface
- Use third-party tools and traces to leverage advanced Hammer Call Analyzer analysis and reporting capabilities
- Flexible product licensing options for individual or team use

- Designed specifically for VoIP analysis and troubleshooting
- Comprehensive and integrated VoIP diagnostic tools
- Comprehensive media analysis with voice and video quality scoring
- Secure and tested code-base
- Dedicated technical support via phone, web, or email
- Roadmap supported by a full-time development team



Features

Real-Time, Multi-Stage Call Flow Display

- Graphically display call legs in real-time
- Trace signaling and correlate calls through multiple IP protocols network layer
- Automatically associate all messages across multiple domains of a call by clicking on a message
- View intuitive hierarchical display of decoded data by network layer
- Save trace data for easy sharing, or export diagrams in.emf format

Media Display and Analysis

- Display RTP and RTCP streams and RFC 2833 digits in call flows
- View packet quality metrics, including jitter and packet loss, on individual streams
- Visualize media problems with unique analysis tools
- View quality metrics, such as R-factor/MOS for voice and MOS-V for video, on every stream
- Playback, analyze, and listen to streams with emulated jitter buffer
- Analyze Fax over IP (T.38)
- Measure Talker Echo (TELR)

Time Saving Search, Filter, Capture, and Configuration Features

- Display or capture frames based on protocol or field values
- Import and export filter and display configurations with project files
- Search for static values or use regular expressions for more flexibility

Call List

- View real time list and status of individual call sessions
- Display summary information for each call

Product Specifications

- Software version for IP call analysis; supported platforms: Windows XP Professional, Windows 2003 Standard, Windows Vista Enterprise, Windows 2008 Standard with SP2, Windows 7 Enterprise
 - Minimum 1.0 GHz Pentium 4 CPU, 256 MB RAM
 - Flexible floating and subscription license models

Protocol-Aware Capture Triggering

- Monitor network traffic for specific events that will trigger a capture session
- Send an e-mail notification when a trigger occurs
- Set a pre-trigger buffer to capture frames on the network just prior to a trigger event
- Start, stop, control, and configure via Command Line Interface, including remotely

Compatibility

- Display packets captured in Sniffer, Ethereal, NetMon, any libpcap format with full Hammer Call Analyzer functionality

Audio Codecs

- G.711 A-law and μ -law, G.723.1*, G.726, and G.729A/B, iLBC, GSM, AMR-NB, AMR-WB, EVRC, Speex

Video Codecs

- H.263/H.263+/H.263++, H.264(MPEG-4 part 10), and MPEG-4 part 2

VoIP Decodes

- SIP (IETF and 3GPP IMS), SIP-T, SIP over TLS, SIMPLE, H.323 (H.225, H.245, QSIG), Avaya 323**, MEGACO (H.248 V1-V3), MGCP, PacketCable NCS, COPS, Diameter, Cisco Skinny (SCCP)***, Cisco PRI Backhaul (ISDN, QSIG), STUN, SIGTRAN M3UA, M2UA & IUA, CDMA 2000 A10/A11 Support, TBCP, GTP, RTP, RTCP, RTCP-XR, RFC 2833, T.38, UDP, TCP, SCTP, IP, HTTP, BICC, UNISTIM*, MSRP

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