CleverView® for cTrace Analysis v6.3

Accelerating Virtualization Deployment with Multi-Architecture Support for z/OS®, Linux on System z®, z/VM®, z/VSE™, AIX®, OSA Express and Windows®

Key Features

- Supports **IBM's zEnterprise™ System**
- **Schedules interval-based tracing** to run within a specified time frame
- Supports **Windows packet tracing** with data collection and analysis
- Provides expert analysis of network traffic performance for **multi-architecture environments**
- Highlights top speakers via **Session Summary Report**
- Locates discrepancies faster with **Expert Analysis in Trace Comparison** using **TraceDiff**
- Automates **OSAENTA, CTRACE, and LINUX** trace captures with expert analysis
- Captures any **LPAR packet traces** through the OSA interface from one z/OS® system.
- Converts **CTRACE to pcap** for analysis by Sniffer users
- Imports and analyzes **pcap files from z/VM®, Linux, AIX, z/VSE and Windows** IP packet traces, as well as Sniffer traces
- Provides **IPv6, ICMPv6 support** for IPV6 migration
- Provides **in-depth diagnostic capability** for **EE/APPN** Expert Analysis
- Uses the documented z/OS API to provide **Real-Time Packet Trace**
- Offers Quick access to multiple types of error reports with **Exception Reporting**, such as Retransmission, Traffic, Threshold, Session, or Sense Code Errors
- Provides critical **session and transaction performance reports**, such as sequence of execution reports with response times and transfer rates.

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CLEVER® Business Service Management

Supporting datacenter consolidation and green initiatives, AES CLEVER Solutions, such as **CleverView for TCP/IP** and **CleverView for cTrace Analysis**, have offered unsurpassed performance monitoring for IBM® z/OS mainframes, encompassing z/VM and Linux on System z environments.

The robust CLEVER platform architecture allows AES to offer superb features and benefits. Designed to help users make virtualization a reality and achieve their goals of doing more with less, **CleverView for cTrace Analysis v6.3** is the obvious choice. Expert diagnostic capabilities allow companies to simplify trace collection, enhance diagnostic efforts, and accelerate virtualization deployment while reducing costs *and* improving network service level performance.

CleverView for cTrace Analysis v6.3 supports IBM's zEnterprise System and provides expert analysis of network traffic performance for the following multi-architecture environments** :

- ✓ z/OS
- ✓ Linux on System z
- ✓ z/VM
- ✓ z/VSE
- ✓ AIX
- ✓ OSA Express
- ✓ Windows

The virtual network technology support provided by **CleverView for cTrace Analysis v6.3** allows z/OS network system engineers to quickly embrace virtualization environments and enables them to focus on application service delivery. These features, combined with existing OSAENTA support and packet trace support for Linux, z/VM, z/OS, and Sniffer traces, gives CleverView for cTrace Analysis unsurpassed expert analysis and trace comparison capabilities, making it the must-have diagnostic solution for mainframe and open system networks.

** CleverView for cTrace Analysis 6.3 supports z/OS packet trace, OSAENTA trace, Linux on System z, AIX, z/VM, z/VSE, Windows PCAP trace, and Sniffer® trace
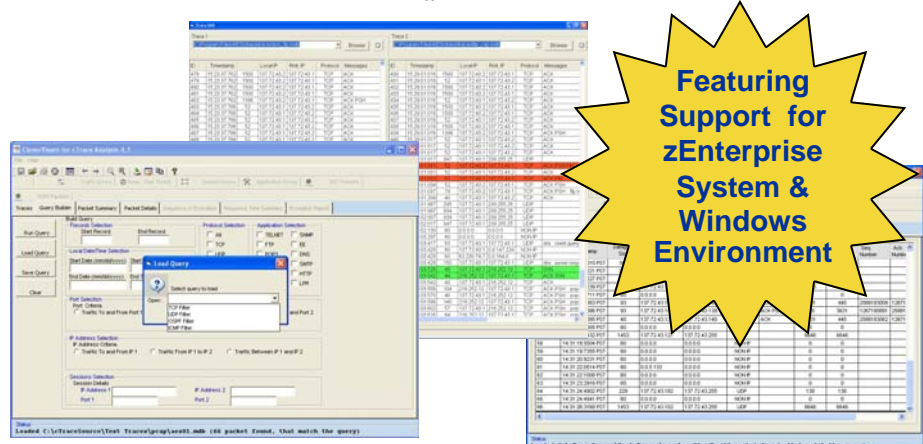
Featuring Support for zEnterprise System & Windows Environment

AES - The Business Service Management Company

Highlights of CleverView for cTrace Analysis:

IBM zEnterprise System Support provides the multi-platform security needed for the system of systems.

Support for expert analysis of network traffic performance for a variety of multi-architecture environments (now including z/VSE™, AIX® and Windows®, in addition to z/VM, z/OS, Linux on System z, and OSA Express.)

OSAENTA Trace Support offers a Trace Generator option to Start/Stop OSA-Express Network Traffic Analyzer (OSAENTA) traces and provides decoding and expert analysis. Decoding MAC addresses in OSAENTA is also available.

Trace Diff allows for side-by-side trace analysis on one Windows screen, including comparison by sequence number and application data comparison, significantly reducing the time spent on network problem diagnosis or performance studies.

Exception Reporting provides easy access to multiple error report types, grouped by defect category.

Session and Packet Summary Reports reveals prevalent categories at a glance with customizable highlighting. The **Sequence of Execution Report** provides details of the packets exchanged during a given session. The **Response Time Summary** report summarizes all sessions between local and remote IP devices communicating through the same protocol..

Real-Time Packet Trace uses the documented z/OS API to provide real-time packet tracing and formatting on the host, providing an easy, direct way to solve network problems as they occur (in real time, on demand) with the unique ability to provide a view of z/OS TCP/IP network traffic as it occurs.

Sniffer® Trace Support allows analysis of Network General™ Sniffer capture files collected from open systems. Sniffer traces provided by the network side can be compared side-by-side with CTRACE packets collected from the mainframe host side.

z/VM Packet Trace Support lets users import and analyze traces for fast network problem diagnosis at the packet level.

Linux IP Packet Traces lets users import & analyze pcap traces. The Packet Detail report displays the pcap header, including Source and Remote Mac Address information

Security Protocols Support enhances diagnostic capability for the Secure Socket Layer. It supports TLS and AT-TLS protocols (for FTP, TN3270 and Telnet).

Packet Trace Generation on Linux using tcpdump.

Automated Trace Collection is available for component packet, OSAENTA and Linux traces.

SFTP file transfer support enhances support for the Linux trace analysis process.

CTRACE Conversion Capability converts CTRACE to pcap format for decoding by Sniffer® and other similar products.

Trace Generation Automation provides a way to schedule start/stop traces.

In addition to the abundant features listed above, **CleverView for cTrace Analysis** also provides an Integrated Database, Selective Trace Filtering Options, Easy Viewing of Message Data, Real-time system messages look-up, a time zone option and Decoding for APPN packet Request Headers and Response Headers, as well as XID3 packets and RTP Optional Segments (including all control vectors found within each).

CleverView for cTrace Analysis 6.3 (February, 2011) introduces the following new features:

- **Enhanced Trace Scheduling** allows you to perform interval-based tracing within a user-specified time frame.
- **New Trace Capabilities** include the ability to **take Windows packet traces** and **save Real-Time packet traces.**
- **New Reporting Capabilities** include enhanced Session Summary and Trace Summary reports.

CleverView for cTrace Analysis Version 6.3 is generally available.

System Requirements:

PC Workstation: Pentium® PC or compatible, 2 GHz or above, 1GB RAM, and 500Mb available disk space; Microsoft® Windows® 2000, Windows XP, Windows Server 2003, or Windows 7.

CleverView for cTrace Analysis z/OS Mainframe Requirements: CleverView for cTrace Analysis supports the generation of the component trace for z/OS V1R1 or later. The z/OS Mainframe Real Time feature requires z/OS V1R4 or later. Support for the z/VM packet trace requires z/VM 4.4 or later. Linux IP packet trace supports traces generated by the tcpdump command.