



CLEVER[®] Decoder v4.0

Expediting Mainframe Network Problem Resolution
Supporting Communication Controller for Linux

Key Features

- Supports z/OS[®] Communications Server and IBM Communication Controller for Linux[™] on System z[™] (CCL)
- Interprets VTAM buffer trace fields (the only way to view encrypted TN3270 RU data) with TraceView
- Reduces the time needed to analyze and resolve 3270, TN3270, and APPC network problems
- Breaks down the sequence of execution and timing information for APPC logical sessions within multiple parallel sessions.
- Automates the Start/Stop of GTF traces
- Diagnoses the source of Network Errors using error indications and their associated time stamps
- Generates numerous on-line reports, such as :
 - Network Errors
 - Detailed Trace Analysis
 - APPC Sessions
 - Sequence of Execution
 - Response Time Distribution
 - Trace Start/Stop Times
 - Transit Time Distribution
 - NTRI Top Speaker/Receiver

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CLEVER[®] Business Service Management

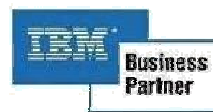
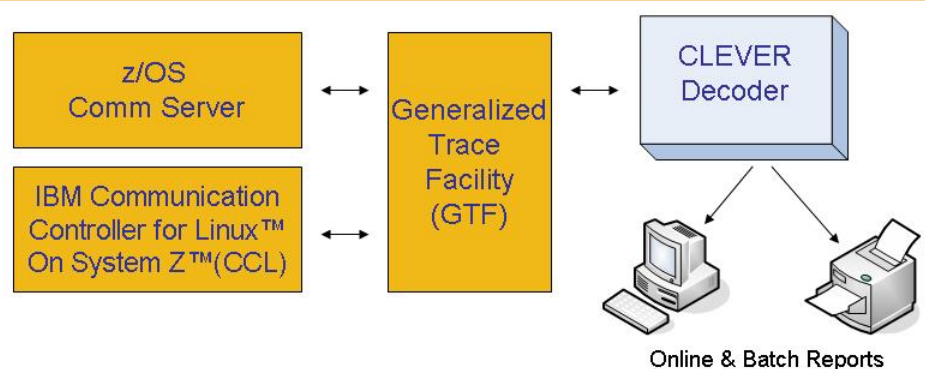
The ability to run Linux servers has increased the value of the mainframe in the role of server virtualization. IBM Communication Controller for Linux[™] on System z[™] (CCL) provides you a migration path off of 37XX hardware. Centralization and consolidation of SNA network applications on System z using CCL is just one example of Linux deployment, which also serves as an alternative to Enterprise Extender for the 37XX migration path.

As networks become increasingly more complex, so do the problems associated with maintaining optimal performance. One of the most powerful diagnostic tools available is the VTAM/NCP trace, which contains diagnostic information in the CCL conversion, as well as in production. It often remains an untapped resource because it is such a tedious, time-consuming process to extract this valuable information. Using intelligent filtering to produce focused, meaningful reports, **CLEVER Decoder** expedites network problem resolution to improve system availability and user productivity.

Successful Business Service Management requires quick solutions and effective tools. **CLEVER Decoder** is an integral tool for network problem resolution. It drastically reduces the time system programmers spend on network problem diagnosis. It also accelerates your 3745/3746 migration efforts. In addition, **CLEVER Decoder helps** identify and alleviate embedded SNA layer traffic fault or flow problems, or speed up transaction performance, assuring that goals in production are being met.

Some of the services provided by **CLEVER Decoder** include:

- Data filtering, consolidation, and interpretation for VTAM buffer traces and NCP line traces
- On-line problem analysis reports
- Automated Start/Stop capability for GTF traces
- The ability to breakout parallel APPC sessions
- Diagnostic capabilities for the 3745/3746 migration path



AES - The Business Service Management Company

Highlights of CLEVER[®] Decoder

- **TraceView** provides an interpretation of the important fields (in the manner of ACF/TAP) for all relevant SNA buffer trace records as they come into the Decoder batch run. The records displayed may be limited by setting options. The entire content of each record is provided in HEX and in EBCDIC where possible. Complete interpretations are available for TSC buffer trace records, Line trace records, and CSP/SIT trace records.
- The **On-Line reports** can be reviewed by the VTAM systems programmer in order to:
 - determine whether the trace inputs gathered are focused ones
 - examine what happened during the command flow when an error occurred
 - know what response time is like on the network
 - review error indicators with their associated timestamps, as well as any possible hardware and/or software mismatches.
- The **APPC Session Report**, a critical tool for diagnosing and tuning all APPC applications, breaks out logical sessions from multi-threaded, parallel LU 6.2 session data, providing detailed information about session flow and command exchanges.
- **Intelligent data filtering** allows massive quantities of data to be filtered into usable reports by node name, date/time, APPC session, or grouping, for quick diagnostic needs.
- To assist in problem diagnosis, CLEVER Decoder provides the means to issue DISPLAY, MODIFY, and VARY **VTAM commands**.
- The **Trace Start/Stop Time report** helps determine whether the trace inputs gathered are focused ones, showing the type of trace and its duration in terms of starting and ending times for the problem node.
- The **Sequence of Execution report** reveals the command flow, their contents, and where the process ended by showing the flow between primary and secondary nodes in the network and the SSCP. The conversation flow between the SNA and SDLC commands is also shown.
- The **Transit Time Distribution report** provides a breakdown of response times for: VTAM inbound, application, VTAM outbound, and the network time (with the DR time). It allows the VTAM systems programmer to know the VTAM queue time vs. the application queue time as well as the total network time estimation.
- The **Response Time Distribution report** provides a breakdown of response times for VTAM inbound, application, VTAM outbound, and network time, assisting in the analysis of application performance by transaction.

CLEVER[®] Decoder v 4.0 is now generally available.

System Requirements:

Hardware: IBM S/390 or z/Architecture

Software: z/OS V1R1 or above.



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