



VOLTDS®

OVERVIEW

VOLTDS® is a network control and transaction distribution software module that provides message delivery and communications functionality for the SWITCHWARE®, EZswitch™ and EZswitch™ Plus products allowing them to communicate with other external nodes in the network including ATMs, POS devices, EFT networks and core systems.

A browser-based graphical user interface (Figure 1) provides detailed monitoring and on-line information for all nodes in the network. It also provides network and application maintenance plus audit and event log review.

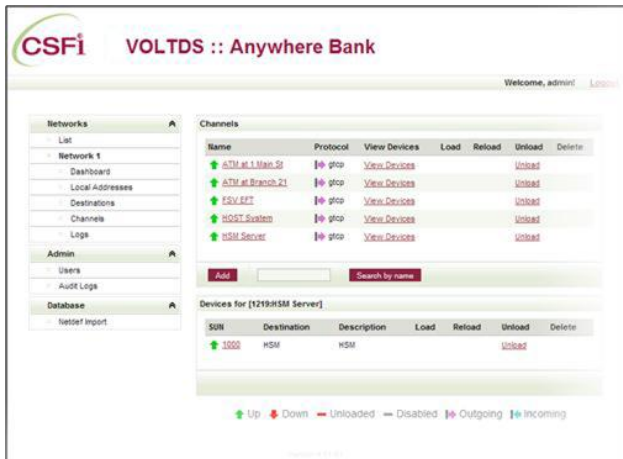


Figure 1

VOLTDS® manages the overhead associated with handling the communication requirements between the SWITCHWARE®, EZswitch™ and EZswitch™ Plus applications and their external nodes. It accomplishes this using a library of device drivers, with each driver associated with a corresponding communication protocol. VOLTDS® drivers strip or appends communications related characters from or to the data stream as messages pass between the application and external nodes.

VOLTDS® also takes automatic corrective actions when a communication failure occurs. As an example, if a TCP/IP client connection is broken, VOLTDS® tries to reestablish the connection whenever SWITCHWARE® presents a message for delivery to the failed endpoint. If, after retrying the connection, the message cannot be delivered successfully, VOLTDS® notifies the SWITCHWARE® on-line application of the failure. Such automatic corrective actions maximize network uptime and reduce the need for operator intervention.

FUNCTIONS

- Message delivery manager for the SWITCHWARE®, EZswitch™ and EZswitch™ Plus applications
- Removes communication-related characters from an external node's message before sending to the application and re-inserts the characters before responding to the external node
- A browser-based user interface provides network monitoring and detailed on-line information for all network nodes
- ODBC interface support.
- Allows development of COBOL, C, or 4GL applications independent of the network environment
- Multiple network programming interfaces, allowing the introduction of new communication protocols without impacting existing applications
- Supports the migration of legacy applications to open system platforms
- Concurrent support of legacy protocols and the latest industry standard communication methods
- Message tracing and system diagnostics
- Provides support of multiple protocol types including many legacy protocols
- Captures data from a production SWITCHWARE®, EZswitch™ or EZswitch™ Plus system for importation into the u/START™ transaction replay utility.

BENEFITS

- Provides a high-performance framework for building business critical on-line transaction processing (OLTP) applications.
- API functions enable online application program development without intricate network programming
- Its threaded architecture uses less memory and improves scalability
- The use of a smart thread pool optimizes system performance by dynamically allocating or freeing threads
- Automatic corrective actions maximize network uptime and reduce the need for operator intervention
- ODBC support enables the database used for SWITCHWARE[®], EZswitch[™] or EZswitch[™] Plus to also be used by VOLTDS[®]

PROTOCOLS SUPPORTED

- TTY and 7900-3 emulation for UNIX workstations
- NCR Poll/Select
- Burroughs Poll/Select
- X.25
- TCP/IP
- SNA/SDLC
- 2780/3780 Bisync
- 3270 Bisync (Host and Tributary)
- UDP/IP
- Visa II

Note: Some of the protocols listed above may require CSFi's u/SNAC[™] configured as a legacy gateway.

HARDWARE

- IBM Power Architecture
- Intel

OPERATING SYSTEMS

- IBM AIX
- Red Hat Linux



CSF International, Inc. (CSFi) is a global provider of enterprise transaction processing and management software. CSFi is located in Sarasota, Florida where the company's core research, software development, technical support and quality assurance functions are headquartered. A global network of resellers and support centers extend CSFi's sales and support capabilities worldwide. CSFi software solutions provide services to hundreds of companies in over twenty countries, process millions of transactions every year, and support thousands of ATM and POS terminals worldwide. Clients range from de novo community banks to multi-bank holding companies and processing centers.

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