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CSF INTERNATIONAL, Inc.
Marketing Flash
Worldwide Sales & Marketing Communication

VOLTDS® Release 4.02
Product Update

SARASOTA FL, - February 10, 2010 – CSF International (CSFi) announces the release of VOLTDS® 4.02 scheduled for general customer availability during the 2ndQ of 2010. This new release will offer many exciting new features including shadow networking for parallel operations, encryption features, and several performance enhancements for smooth transaction operations.

Overview

General Information

Release 4.02 represents a major milestone for VOLTDS® as it incorporates new object oriented coding to improve throughput time and enhance transaction performance.

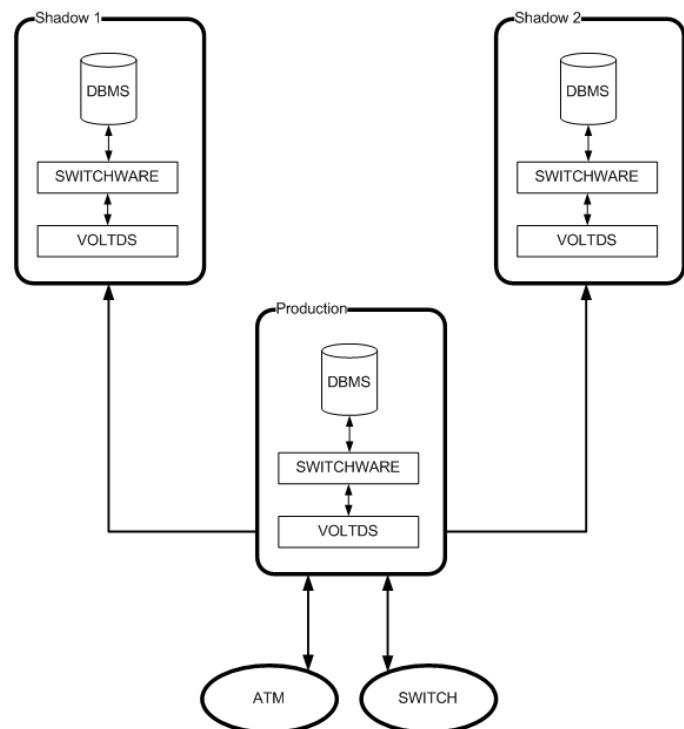
New Features VOLTDS 4.02

The upcoming release of VOLTDS 4.02 will be available for general customer availability during the 2ndQ of 2010. The items discussed in this section summarize the new features and functions incorporated into this new release:

UPGRADED FUNCTIONALITY & FEATURES v. 4.02	
1	Shadow Networking for Parallel Operations of Applications
2	Encryption of the Data Capture file
3	Enhanced file encryption and decryption utilities
4	Non-Interruption of Services for Settings Reload
5	Data capture timestamp in milliseconds
6	Smoother installation enhancement
7	Improved operational speed for loading and shutting down

SHADOW NETWORKING FOR PARALLEL OPERATIONS

VOLTDS 4.02 offers users the ability to perform shadow networking. A shadow network is an arrangement of identical network systems where one system is intended to receive a single input, either from a live VOLTDS network or a replay utility (such as DCAPlus) and then replicate the input for multiple “shadow” systems where operations are mirrored. In the diagram, VOLTDS is sourcing from a live production network where the production VOLTDS opens a connection to the two other shadow networks. All Switch, ATM, and POS inputs are then duplicated and routed via the “shadow” connection to the shadow network. The shadow network routes all inputs to the shadow SWITCHWARE application for processing. Responses from any shadowed SWITCHWARE application are only logged to the data capture function and never leave the shadow network in order to



prevent duplicate responses. This methodology allows database and data capture comparisons to be made against one another in order to verify any new implementations in the Shadow SWITCHWARE works properly.

ENCRYPTION OF THE DATA CAPTURE FILE

VOLTDS Release 4.02 offers the ability to encrypt data capture files, for security purposes, using a combination of the RSA and AES algorithms. The RSA algorithm is an asymmetric key algorithm that uses one public key to encrypt and a second private key to decipher. The AES algorithm is a symmetric key algorithm that uses a single key for both encryption and decryption. When encryption is enabled and VOLTDS creates a new data capture file, it generates a new random AES key and encrypts it using the RSA key. Thereafter, all data written to the file is encrypted using the AES key. The encrypted data capture file can then only be read by the holder of the RSA private key.

ENHANCED FILE ENCRYPTION AND DECRYPTION UTILITIES

VOLTDS now includes a file encryption utility that can be used to encrypt a file using the same algorithms used to encrypt data capture files. Conversely, VOLTDS includes a file decryption utility that deciphers a data capture file written by VOLTDS or a regular file encrypted with the file encryption utility. Dual control key generation is supported for this functionality.

NON-INTERRUPTION OF SERVICES FOR SETTINGS RELOAD

Release 4.02 allows users to change licenses, debug and data capture file sizes, location and retention while data is in flight. This eliminates the need to restart VOLTDS in order to affect changes in the system environment.

DATA CAPTURE TIMESTAMP IN MILLISECONDS

VOLTDS now includes a millisecond timestamp on the data capture header lines allowing users a finer granularity of detail when reviewing message flow.

SMOOTHER INSTALLATION ENHANCEMENT

The VOLTDS system no longer has a requirement to install the software without a license and includes all necessary programs to facilitate licensing and can be installed prior to setting up VOLTDS.

IMPROVED OPERATIONAL SPEED FOR LOADING AND SHUTTING DOWN

Design improvements now increase the speeds at which the system is able to start up and shutdown, as well as improving the transaction processing speed of the overall system.