THALES

www.thalesesecurity.com

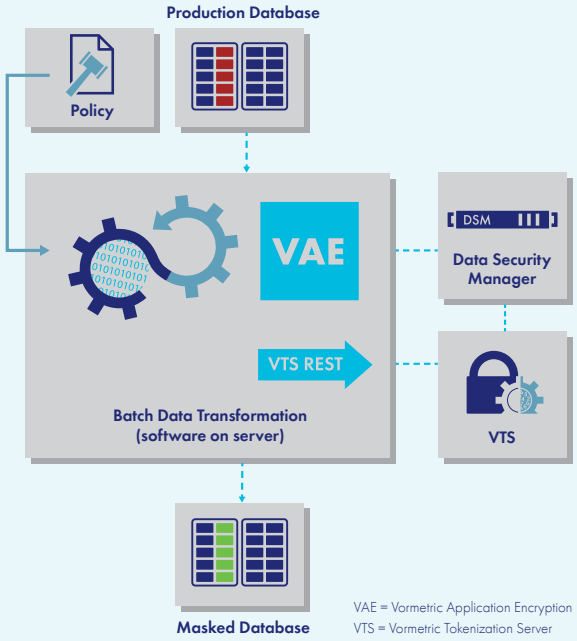
VORMETRIC BATCH DATA TRANSFORMATION ACCELERATES AND SIMPLIFIES DATABASE ENCRYPTION, TOKENIZATION AND MASKING

- Accelerates transformation of existing sensitive data
- Enables efficient periodic refresh of cryptographic keys essential to comply with regulations and mandates
- Facilitates offline data analysis without exposing sensitive information
- Reduces risk when sharing data with third parties

‹Thales eSecurity›

VORMETRIC BATCH DATA TRANSFORMATION

Secure, policy-based data transformation and re-key service for all your sensitive data



The Vormetric Batch Data Transformation utility is a java-based command-line tool that works in conjunction with other Vormetric data protection technology to achieve three main goals:

- Encryption or tokenization of production data quickly and securely
- Re-key encrypted data
- Masking of sensitive data before it migrates from a production environment

The actions that can be performed using Batch Data Transformation are defined by policies managed with JSON configuration files. You can encrypt and decrypt extremely large volumes (terabytes) of data quickly, encrypt select fields in databases or alternatively employ tokenization or format preserving encryption techniques to protect sensitive data while maintaining existing data structures.

Vormetric Batch Data Transformation is a standalone utility that is part of the Vormetric Data Security Platform and therefore leverages the Vormetric Data Security Manager for centralized key management.

COMMON USE CASES

- Initial encryption or tokenization of sensitive data in production databases with applications using Vormetric Application Encryption (VAE) or Vormetric Tokenization Server (VTS)
- Masking sensitive data before sharing with 3rd parties or loading to a data lake

TRANSFORMATION OPTIONS

- Format Preserving Encryption
- AES-CBC Encryption
- Tokenization

VORMETRIC BATCH DATA TRANSFORMATION

Feature Overview

COMMON USE CASES

Some of the common tasks that our customers have performed using Batch Data Transformation include:

- Masking sensitive data before sharing with third parties or loading to a data lake
- Initial encryption or tokenization of sensitive data in production databases to satisfy privacy mandates or regulations
- Supporting the analysis of data by external teams without exposing them to sensitive or private information
- Enabling DevOps teams to utilize accurately represented data without any of the sensitive information being available in the clear
- Providing a fast and efficient method to re-key existing encrypted or tokenized data repositories

DATA TRANSFORMATION OPTIONS

- Format Preserving Encryption (FPE) with ASCII and Unicode character set options
- Cipher Block Chaining using the AES-CBC-PAD encryption mode
- Formatting preserving alpha/numeric

CONFIGURATION FILE OPTIONS

- Data encryption parameters
- Data tokenization parameters
- Number of process threads for the data transformation process
- Data batch size (number of records to be transformed)
- TLS configuration settings to support secure communications
- Input, output and log file locations (.csv file format)
- Password control

POLICY FILE OPTIONS

- Specific action for each individual column transformation – encrypt, decrypt, tokenize, de-tokenize and re-key
- Easy to apply retrospective encryption without the need for application changes
- Flexible key management options – keys in HSM or server, multiple key support

HARDWARE AND OPERATING SYSTEM REQUIREMENTS

- Processor with 4 cores, 16GB RAM (minimum)
- Java Runtime Environment (JRE)
- Windows
- Linux – RedHat, CentOS, Ubuntu and SUSE

COMPLEMENTARY VORMETRIC PRODUCTS

- Vormetric Data Security Manager for secure key management (including the optional nShield HSM for FIPS 140-2 Level 3 compliance requirements)
- Vormetric Application Encryption for application-based encryption
- Vormetric Tokenization Server for tokenization support

Follow us on:

Americas – Thales eSecurity Inc. 900 South Pine Island Road, Suite 710, Plantation, FL 33324 USA • Tel:+1 888 744 4976 or +1 954 888 6200 • Fax:+1 954 888 6211 • E-mail: sales@thalesesec.com
Asia Pacific – Thales Transport & Security (HK) Lt, Unit 4101-3, 41/F, Sunlight Tower, 248 Queen's Road East, Wanchai, Hong Kong • Tel:+852 2815 8633 • Fax:+852 2815 8141 • E-mail: asia.sales@thales-esecurity.com
Europe, Middle East, Africa – Meadow View House, Long Crendon, Aylesbury, Buckinghamshire HP18 9EQ • Tel:+44 (0)1844 201800 • Fax:+44 (0)1844 208550 • E-mail: emea.sales@thales-esecurity.com