

DATA ENCRYPTION

Deploy encryption in HPE NonStop environments – and across the enterprise – with unparalleled flexibility, security and convenience.

Key Features

- ▶ **Easy set up**
Through online configuration, with no application changes required.
- ▶ **Built-in tracing facilities**
With integration with Wireshark allowing for in-depth analysis of messaging.
- ▶ **Standard HPE NonStop logging facilities**
Enabling integration with existing logging and reporting processes.
- ▶ **Support for native HPE NonStop interfaces**
including Enscribe files, PATHSEND/IPC and TCP/IP.

In the past few years, database encryption has become a critical component of an organization's security strategy. It is required not only to adhere to industry best practices, but to a range of security policies, including the Payment Card Industry (PCI) Data Security Standard. While this requirement is real, so too are the challenges – especially in HPE NonStop environments, where multiple database platforms, 100% availability requirements, and demanding performance requirements all make deploying encryption particularly difficult.

Purpose

SecurLib/DataEncryption from comforte offers a solution for overcoming the challenges of implementing database encryption in HPE NonStop environments. Further, through its integration with industry-leading cryptographic engines, SecurLib/DataEncryption streamlines the deployment of encryption in multi-platform environments.

Features

Simple implementation of complex cryptographic operations

With the SecurLib API, administrators can implement complex cryptographic operations with a single API call.

Streamlined deployment in multi-platform environments

With SecurLib/DataEncryption, administrators can leverage integrated third-party products that enable the centralized administration of encryption across multi-platform enterprises. SecurLib/DataEncryption provides easy integration with the following key management offerings:

- ▶ **OpenSSL.** With the OpenSSL engine, a software-based encryption solution, applications pass cryptographic keys to the SecurLib API, and all key management is done in the associated application.
- ▶ **Safenet.** With the Safenet offering, keys are generated and securely kept in the Hardware security module (HSM). Encryption and Decryption happens in the HSM itself and the encryption keys never leave the HSM.
- ▶ **HPE ESKM product:** SecurLib/DataEncryption can also integrate with the new HPE Enterprise Key Management product (HP ESKM) which is shipped together with the HPE NonStop VLE (Volume Level Encryption) product.



System Requirements

NonStop System

- ▶ H06.15 or later
- ▶ J06.04 or later
- ▶ L16.05 or later

SecurLib can be called from C, C++, pTAL and COBOL. Native compilers are required.

Benefits

▶ Seamless HPE NonStop integration

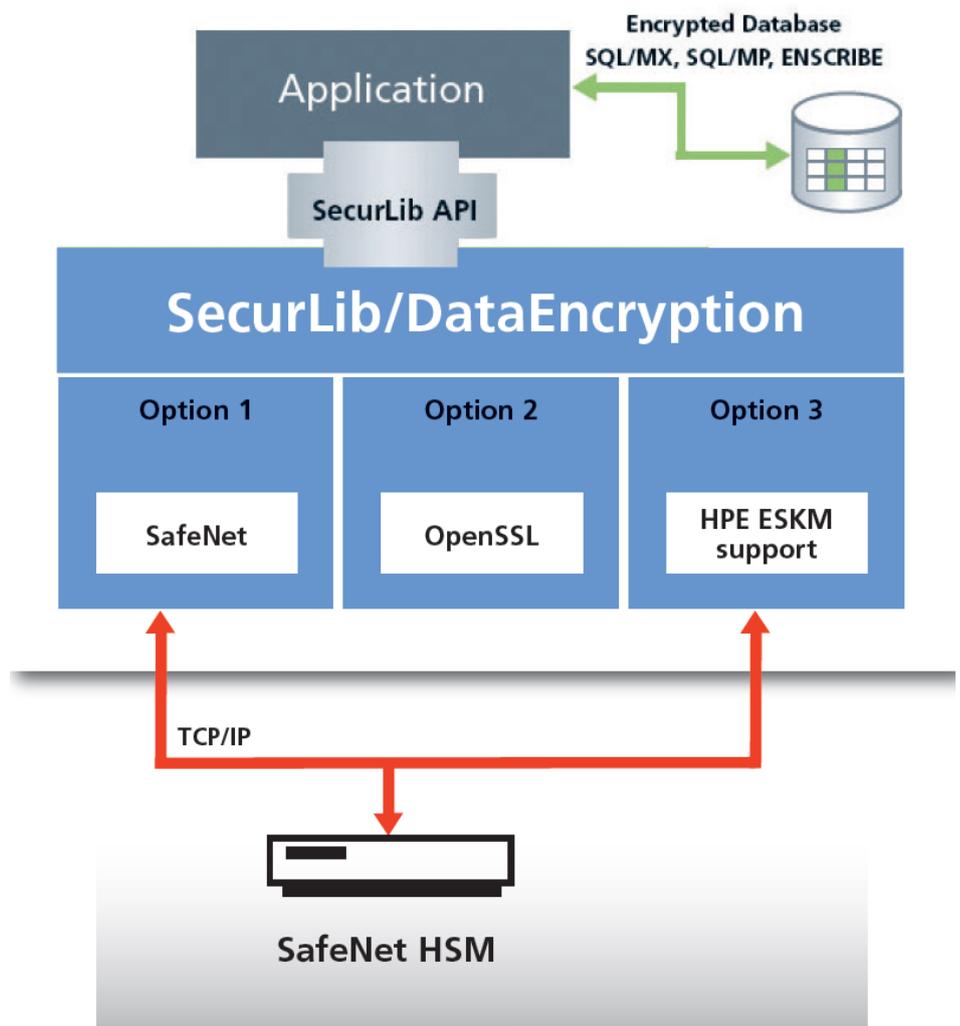
With SecurLib/DataEncryption, organizations can implement encryption in HPE NonStop platforms with unrivaled convenience – while ensuring there are no compromises in availability or performance.

▶ Flexible deployment options

Featuring support for various cryptographic engines and deployment architectures, SecurLib/DataEncryption enables enterprisewide encryption coverage – in a deployment model tailored to an organization's specific security objectives and infrastructure.

Architecture

The following diagram illustrates the SecurLib/DataEncryption architecture, along with the three third party encryption engine options available.



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