



Requirements

NonStop system:

- HPE Integrity NonStop i Systems with J06.20 or later RVUs
- HPE Integrity NonStop X Systems with L16.05 or later RVUs

HPE NonStop cF Secure Tape

Software-based encryption solution for securing NonStop backup tapes

In recent years, several incidents of lost or stolen backup tapes have happened around the world. In many of these cases, the tapes contained confidential information in easily readable format and thus the loss of the tapes put confidential data at risk. HPE NonStop cF Secure Tape is a software-based encryption solution, which renders the data on backup tapes useless in case they get lost or stolen.

Purpose

NonStop cF Secure Tape uses software-based encryption to protect the data at rest on your NonStop backup tapes.

The contents of your company's backup tapes can be very damaging if they fall into the wrong hands and if the data on them can be retrieved. For example, a single tape may detail hundreds of thousands of credit card transactions, medical records, or private financial records. If your security plan does not adequately protect the data on your backup tapes, your company risks reputational damage, financial penalties, criminal charges, and customer loss.

The discussion of the repercussions from the loss or theft of backup tapes is not theoretical. In recent years, there were several incidents of backup tape loss or theft at high-profile companies. The loss of these tapes puts highly confidential data at extreme risk, and the incidents were well reported and very damaging to those involved.

Encrypting the data on backup tapes with NonStop cF Secure Tape is an effective way to protect it. If, despite your physical security precautions, a tape is lost or stolen, it will be nearly impossible to access the data it contains.

Features

NonStop cF Secure Tape has the following key features:

- Supports standard utilities: backup/restore, TMF, BR2, and PAK
- Supports physical tape devices as well as virtual tape devices
- Allows using unlabeled tapes, labeled tapes, and tape catalog
- Supports encryption of unencrypted tapes without first restoring to disk
- Supports strong ciphers including triple DES-EDE and 256-bit AES-CBC (Advanced Encryption Standard)
- Uses public/private key cryptography and a keystore
- Supports key export/import for restoring tapes on other systems
- Provides tight control over key access due to the built-in split knowledge and dual control
- Provides easy to use command line interface for managing keys
- Supports highly efficient data compression before encryption
- Does parallel processing in multiple NonStop CPUs

Benefits

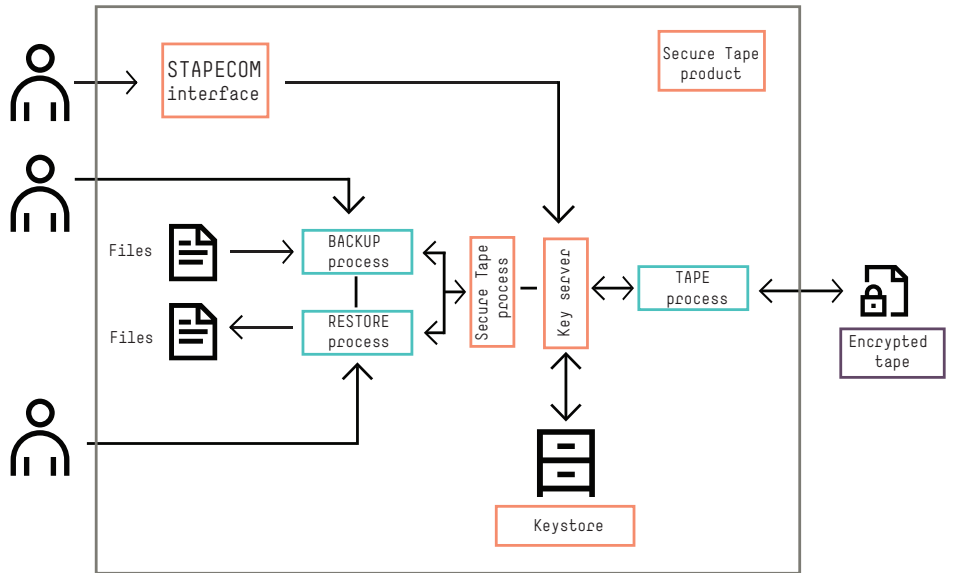
NonStop cF Secure Tape provides the following benefits:

- Costs less than the alternative hardware-based solutions
- Requires no new hardware purchase or installation
- Installs easily, and is simple to maintain
- Optimized for outstanding performance as well as minimization of system resource and backup media consumption
- Minimal system impact due to compression
- Works with existing backup procedures using the NonStop tape utilities
- Uses the existing, unaltered NonStop objects like BACKUP, RESTORE, etc.
- Keystore protects encryption keys: keys are never visible in the clear
- Enables encryption for files stored in the HPE NonStop Virtual Tape Repository (VTR)

Architecture

NonStop cF Secure Tape interacts with the existing backup and restore processes on the NonStop server.

NonStop cF Secure Tape acts as a proxy between the BACKUP/RESTORE processes and the tape process on the NonStop platform to transparently add encryption. The keys used for encryption and decryption are saved in a keystore on the NonStop system. Access to keys can be controlled on a per-user basis.



Ordering HPE NonStop cF Secure Tape software

Table 1: Ordering and compatibility information

HARDWARE	PLATFORM AND RVU	PID
HPE Integrity NonStop X Systems	L16.05 or later	BE405AL
HPE Integrity NonStop i Systems	J06.20 or later	QSCRTAPE

Please refer hpe.com/info/nonstop-docs for product reference manuals.

Learn more at
hpe.com/info/nonstop-security



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