PKWARE
ENCRYPTION WITHOUT COMPROMISE

SMARTCRYPT

SMARTCRYPT FOR FILE SERVERS

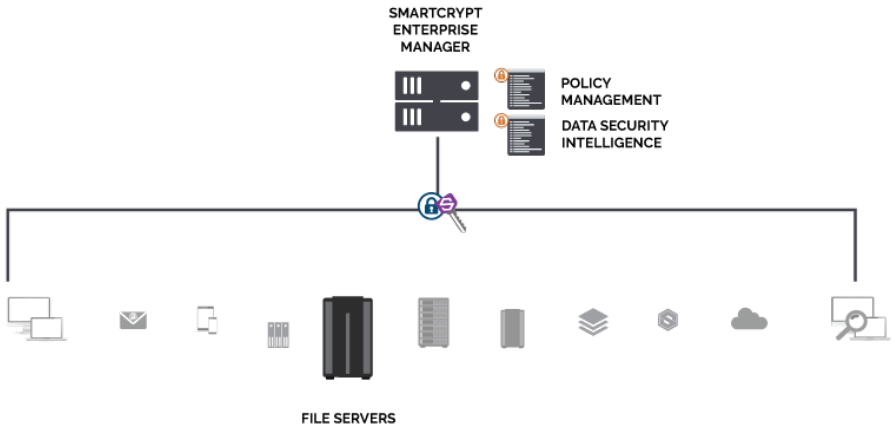
Intelligent Identification and Protection for Shared Data

PKWARE's Smartcrypt is the only enterprise data protection solution that combines intelligent data discovery, persistent encryption, and streamlined key management. With Smartcrypt, organizations can secure sensitive data against internal and external cyber threats, and apply encryption policies across every enterprise operating system.

Smart encryption for file servers and NAS

The Smartcrypt for File Servers agent ensures shared files are protected on network file servers and network-attached storage devices by enabling server-based data discovery, encryption, and decryption. The agent is installed on each server that will store sensitive information, and applies the organization's discovery and encryption policies (as defined by administrators using the web-based Smartcrypt Enterprise Manager console).

To protect sensitive data on file servers and NAS, administrators define Smartcrypt "lockers," or storage locations that will contain sensitive information. Files placed in a locker are encrypted with keys that are available only to authorized users. Administrators can create detailed encryption policies that govern which types of files will be protected and which keys will be used to encrypt them.



PRODUCT SUMMARY

- Installed on file servers and network-attached storage devices that are used to access or store sensitive data.
- Smartcrypt agent can perform automated discovery scans to identify and encrypt sensitive information.
- Persistent encryption remains with data even when moved, copied, or shared outside the organization's network.
- PKWARE's industry-best compression technology reduces file sizes before encryption.
- Administrators apply encryption policies and monitor encryption activity across the organization using the web-based Smartcrypt Enterprise Manager.

Smartkey Technology

At the core of the Smartcrypt platform is PKWARE's revolutionary Smartkey technology. With Smartkeys, businesses gain across-the-board control over who can decrypt files and read data.

A Smartkey is a unique key generated by the Smartcrypt agent for a specific file, folder, or other protected asset. Smartkeys allow administrators to add or revoke user access at any time—even if the files have been shared, copied, renamed, transferred, or emailed—ensuring full lifecycle protection.

Smartkeys are automatically generated, shared, and synchronized between authenticated devices without changing or interrupting user workflows. Smartkeys also allow users to encrypt data for external parties such as vendors or partners.

Intelligent Data Discovery

Smartcrypt provides sophisticated data discovery capabilities, allowing organizations to identify and protect sensitive data as soon as it appears in a shared file location.

Each time a file is created or modified, Smartcrypt initiates a scan based on the organization's definition of sensitive data. If the data fits one of the defined patterns, Smartcrypt applies strong data-level encryption, keeping sensitive data secure wherever it is used, shared or stored.

Enterprise-Wide Protection

Smartcrypt for File Servers is available for Windows, Linux, and Unix operating systems, enabling organizations to protect sensitive data regardless of their IT architecture.

Files encrypted by the File Servers agent are fully interoperable with Smartcrypt's solutions for user devices, mainframe, midrange, and databases, ensuring that authorized users can always access encrypted files.

TECHNICAL SPECIFICATIONS

OPERATING PLATFORMS

- Microsoft Windows
- Linux: RHEL (.rpm) and SLES (.deb)*

ALGORITHMS

- Encryption: AES256 (block level encryption in AES-CBC mode)
- Signing: RSA 2048 SHA 512 PSS (metadata)

KEY STORAGE AND RETRIEVAL

- OASIS KMIP
- PKCS#11

FILE ENCRYPTION CERTIFICATE AND KEY TYPES

- Smartkeys
- X.509 Digital Certificates
- OpenPGP

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