

## Robust and easy to use e-mail and file encryption with strong hardware-based key management

- Send and store data securely on existing infrastructures
- Deliver easy to use encryption platform for business users
- Automate creation and secure storage of encryption keys
- Enable fast and flexible deployment options
- Facilitate compliance with regulatory requirements



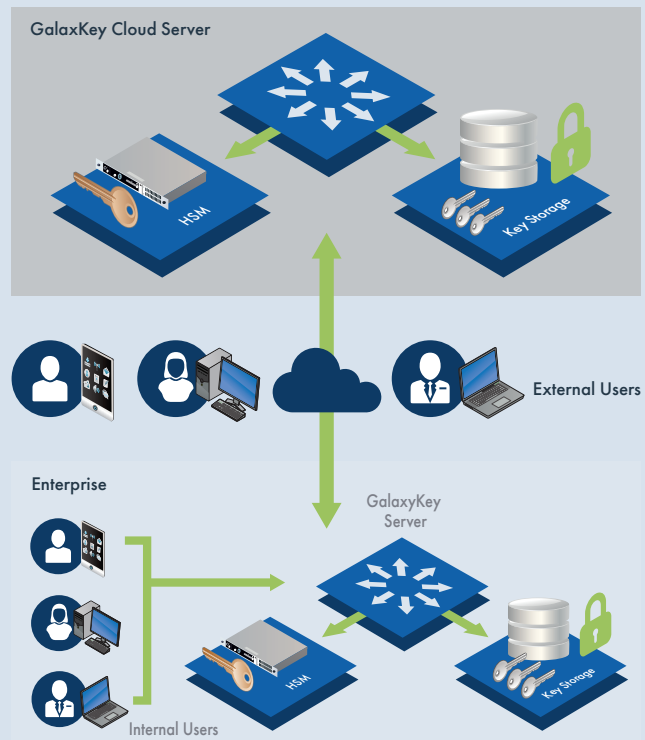
# Galaxkey and nCipher protect confidentiality and integrity of corporate enterprise data

### THE PROBLEM: ENTERPRISE E-MAIL AND FILE SHARING APPLICATIONS HAVE BECOME DEFAULT FORMS OF COMMUNICATION IN THE WORKPLACE, YET THEIR SECURITY HAS OFTEN BEEN NEGLECTED

Organizations continuously exchange e-mails and files that often contain commercially, and even nationally sensitive information. Securing the confidentiality and integrity of the data contained within this traffic continues to be a problem. Knowing when data is leaked, or if malicious code is parsed is important, but so is the rising concern over the data itself, and how it could be used if it were to fall into wrong hands.

### THE CHALLENGE: ENFORCING THE SECURITY OF SENSITIVE DATA IN A MORE VIRTUAL AND DISTRIBUTED ENVIRONMENT

As more e-mail and file sharing applications are hosted in virtual, cloud-based, and hybrid platforms, protecting the confidentiality and integrity of the enterprise data can be difficult. Encryption solutions often require specialized knowledge and configuration, which cause operational barriers to security practices.



nCipher nShield Connect HSM safeguards and manages the master keys used to lock down the Galaxkey Server and Galaxkey Cloud Server key storage.

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## THE SOLUTION: STRONG DATA PROTECTION WITH CONVENIENT AND SECURE KEY STORAGE AND MANAGEMENT

Galaxkey is an easy to use enterprise encryption platform that enables organizations and individuals to encode and control access to their e-mails and files. The platform enables users to continue to utilize their existing methods of communication and storage, while ensuring their data remains secure. Galaxkey applies an encryption and access control layers to enterprise data, ensuring that if it ever falls into the wrong hands, its confidentiality and integrity would be maintained. The platform's architecture enables organizations to store and control their own encryption keys that protects sensitive data. Being able to show that the customer is ultimately in control of encryption keys facilitates security and regulatory compliance.

Galaxkey Server and Galaxkey Cloud Server integrate with the nCipher nShield Connect hardware security modules (HSMs) to protect critical master keys. nShield Connect safeguards keys from compromise by securely storing them within a secure FIPS 140-2 Level 3 and Common Criterial EAL4+ certified boundary.

## WHY USE NCIPHER NSHIELD CONNECT HSM WITH GALAXKEY SERVER AND GALAXKEY CLOUD SERVER?

Cryptographic keys underpin the security of an encryption system. Keys handled outside the security boundary of a certified HSM are significantly more vulnerable to attack, which can lead to compromise. HSMs are the only proven and auditable way to secure valuable cryptographic material. With more enterprise services being hosted from virtual and cloud-based environments, ensuring that corporate information does not leave the extended enterprise infrastructure becomes a challenging endeavor. nCipher nShield Connect safeguards and manages the keys used by the Galaxkey Server and Galaxkey Cloud Server right from the customer's own premises providing the control and the root of trust required to ensure the security of the entire system.

Using nCipher nShield Connect HSMs, Galaxkey can leverage strong hardware based key management to protect the encryption process, and combine it with an easy to use platform for e-mail and file encryption, they lower resource overheads and overall costs.

## NCIPHER

nCipher nShield Connect HSMs provide a hardened, tamper-resistant environment for performing secure cryptographic processing, key protection, and key management. nCipher HSMs:

- Deliver high performance cryptographic services for mission-critical applications
- Enforce key use policies, separating security functions from administrative tasks
- Interface with applications using industry-standard APIs (PKCS#11, OpenSSL, JCE, CAPI, and CNG)

## GALAXKEY

Galaxkey is leading a change within the encryption market, providing easy to use, secure methods of sending and storing e-mails and files. Galaxkey solutions:

- Allow secure sharing and storage of data, inside and outside of the network
- Automate cryptographic processes to make encryption easier to use
- Address B2B and B2C data security needs with the same platform

For more detailed technical specifications, please visit [www.ncipher.com](http://www.ncipher.com) or [www.galaxkey.com](http://www.galaxkey.com)