

EMC VNX HOST ENCRYPTION

Data protection anywhere outside the server

ESSENTIALS

- Protect your most sensitive data cost-effectively in EMC VNX storage environments
- Provide compliance and maintain confidentiality for data from the host to disk on storage where it resides
- Use RSA key management technology to centralize and manage your security keys
- Leverage optional, integrated hardware-assist HBAs to off-load encryption from host servers and maintain performance levels

VNX Host Encryption supported operating systems:

Linux
Solaris
Microsoft Windows

EMC Host Encryption supported EMC storage arrays:

EMC VNX series

VNX Host Encryption is specific to EMC VNX series arrays and only available as part of the VNX Security and Compliance Suite.

EMC® VNX™ Host Encryption is a host-based encryption solution in the VNX Security and Compliance Suite. VNX Host Encryption uses software agents on host servers and centralized RSA® Data Protection Manager appliances for key management to secure data from the host to disk on storage. It protects information in EMC VNX storage environments from being compromised through unauthorized access or disk removal. VNX Host Encryption enables compliance with internal, private, and government standards—including the Payment Card Industry Data Security Standard (PCI DSS), one of the most widely applicable compliance standards in use today.

Since it is a host-based solution, VNX Host Encryption lets you choose the LUNs or volumes that contain sensitive data and need to be encrypted. There is no need to encrypt the entire SAN or array, so management is minimized. Since data is encrypted as it leaves the host, your data is protected anywhere it goes outside of the server. With full support for replication, and no port dependencies or other hardware requirements, VNX Host Encryption removes the need for point products or numerous security appliances.

Table 1. Features and benefits of VNX Host Encryption

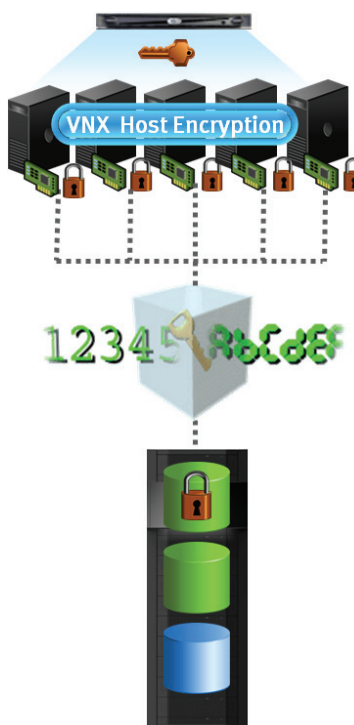
VNX HOST ENCRYPTION FEATURES	BUSINESS BENEFITS
Security compliance	Satisfy all data security compliance regulations (PCI, HIPAA, etc.) Remove risk of sensitive data loss and subsequent impact
Cost-effective encryption	Maximize ROI by selectively encrypting only your most sensitive data Reduce management cycles associated with controlling an entirely encrypted environment or the administrative burden of managing multiple encryption point products
Support for high availability	Eliminate the single-point-of-failure limitations of encryption appliances
Ability to scale	Leverage centralized RSA key management to grow your encrypted environment quickly and easily, and to add RSA security services
Ease of deployment	Add non-disruptively to production data center environments with transparency to hosts, applications, replication, and backup infrastructure

VNX Host Encryption offers a hardware-assist HBA option to offload encryption processes, which results in near-zero impact to the host CPU in CPU-intensive environments. And VNX Host Encryption manages the automatic interoperability between hardware and software encryption, effectively acting as an encryption process failover manager.

Table 2. VNX Host Encryption key use cases

USE CASES	BUSINESS/OPERATIONAL BENEFITS
Security audit compliance and regulation	Deploy technologies to support enterprise security strategy Align with internal policies and external government regulations
Service providers with consolidated storage	Protect data from unauthorized access and maintain confidentiality
Secure business continuity	Integrate encryption non-disruptively into an existing business continuity strategy Prevent replicated media from being compromised
Secure disk migration/rotation/upgrade	Prevent transported data from being compromised Protect data following its physical removal from a customer site Prevent discarded media from being compromised

VNX Host Encryption incorporates flexible, easy-to-use, centralized enterprise key management, and enables consistent encryption methodology in VNX storage environments.



CONTACT US

EMC VNX Host Encryption is an integral part of EMC's networked storage offering, making your IT infrastructure more secure. For more information on VNX Host Encryption, the VNX Security and Compliance Suite, and EMC information infrastructure security solutions, contact your EMC sales representative or authorized EMC value-added systems integrator. Or visit our website at www.EMC.com.

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