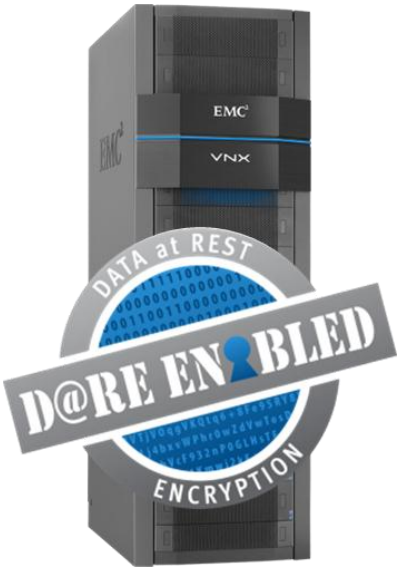
PROTECT YOUR INFORMATION WITH VNX DATA-AT-REST ENCRYPTION



VNX D@RE will be submitted for FIPS-140-2 Level 1 validation

1 PROTECTS DATA AGAINST THEFT OR LOSS

EMC® VNX® Data-At-Rest-Encryption (D@RE) uses a controller based encryption method to encrypt all data written to disk, protecting data access against unauthorized drive removal (lost or stolen drives). In some cases D@RE can eliminate the need for data erasure services.

2 PROTECT ALL DATA

VNX Data-At-Rest-Encryption, encrypts the entire array. All user data written to disk with standard I/O is encrypted; irrespective of what the application is, irrespective of the access protocol (file or block) and irrespective of which VNX2 platform. All user data is encrypted before it is written to disk.

3 ENCRYPT ALL DRIVES

VNX Data-At-Rest-Encryption, encrypts at the drive level, i.e. every drive will have its own unique encryption key that is managed through an embedded encryption key manager. All current and future VNX drive types (SSDs, SAS and NL-SAS), drive speeds and drive capacities are supported with VNX D@RE.

4 SUPPORT FOR ALL VNX FUNCTIONALITY

VNX Data-At-Rest-Encryption supports all the rich data services the VNX2 has to offer. Services like: Fully Automated Storage Tiering (FAST™), replication, snapshots, deduplication/compression, etc. All data services are supported on a VNX2 system and all the associated data is also fully encrypted with VNX D@RE.

5 SIMPLE NON-DISRUPTIVE D@RE OPERATIONS

All VNX2 systems (VNX5200, VNX5400, VNX5600, VNX5800, VNX7600 and VNX8000) are VNX D@RE enabled. All the VNX2 systems have the controller-based encryption hardware already built in. Starting in Q3 2014, VNX2 systems can easily be upgraded, non-disruptively with a software update, to allow data in place enablement of the VNX D@RE functionality.

VNX D@RE also comes with a centralized embedded encryption key manager that automatically generates new encryption keys, stores the keys, recalls the keys and deletes them when necessary. All encryption keys stay in the key manager within the physical array.

CONTACT US

To learn more about how EMC products, services, and solutions can help solve your business and IT challenges, contact your local representative or authorized reseller—or visit us at www.EMC.com/vnx.

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