

# EMC VNX SERIES SOFTWARE SUITES

Boost application performance, protect critical information, and reduce storage costs with comprehensive software from EMC

## ESSENTIALS

- Optimize SLAs for both the lowest cost and the highest application performance automatically
- Enforce retention at the file-level for compliance
- Recover and repurpose applications locally and remotely
- Protect any host or any application from any disaster
- Manage Microsoft Exchange, SQL Server, SharePoint, and Oracle application copies and prove compliance with protection policies
- Manage VNX software via Unisphere™

IT administrators everywhere are under constant pressure to do more with less: shrinking budgets, fewer resources, and less infrastructure. EMC meets these challenges with a set of unique and powerful storage and data management software solutions. Designed to work with the EMC® VNX® series of storage platforms, these advanced features dramatically improve efficiency by simplifying and automating many storage tasks.

**FAST Suite**—Automatically optimize for the highest system performance and the lowest storage cost simultaneously.

**VNX Events and Retention Suite**—Keep data safe from changes and deletions

**Local Protection Suite**—Practice safe data protection and repurposing.

**Remote Protection Suite**—Protect data against localized failures, outages, and disasters.

**Application Protection Suite**—Automate application copies.

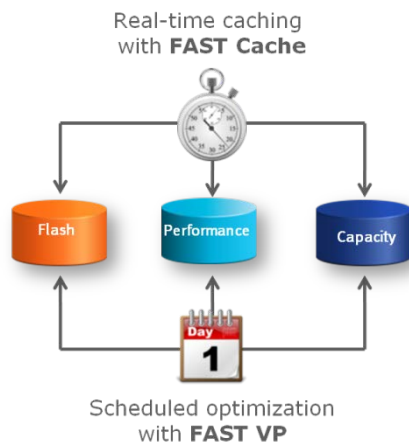
**Unisphere Management Suite**—Monitor and manage multiple VNX systems with full visibility across the virtual stack.

**Data at Rest Encryption**—Not part of any VNX software suite/pack, VNX offers controller based data at rest encryption (D@RE)

**Storage Analytics**—Not part of any VNX software suite/pack, this delivers the storage-only features and functionality of VMware vCenter Operations Manager

## FAST SUITE

The FAST Suite improves performance and maximizes storage efficiency by enabling customers to deploy a FLASH 1<sup>st</sup> strategy. Using the FAST suite and just a small number of Flash drives, a FLASH 1<sup>st</sup> strategy lowers storage costs and delivers higher performance levels for your most important applications by automatically tiering and serving data from the most cost-effective drive type, based on the data's need. Customers define how and when data is tiered using policies that dynamically move active data to high-performance drives, and less active data to high-capacity drives, in 256 MB increments for both block and file systems. For inconsistent, high-demand workloads, an extendable cache of up to 4.2 terabytes ensures that data is served from the highest performing Flash drives for as long as needed. With a FLASH 1<sup>st</sup> strategy, customers never have



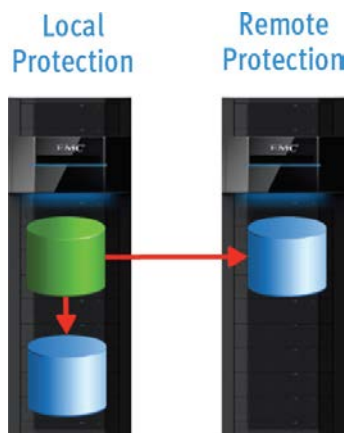
Set-it-and-forget-it performance optimization for application workloads

## VNX EVENTS AND RETENTION SUITE

The VNX Events and Retention Suite helps customers ensure that data is protected from unwanted changes and deletions. Maintain data confidentiality for selected data at rest and enforce retention at the file-level to meet compliance requirements. Integrate with third-party anti-virus checking, quota management, and auditing applications for added data protection, security, and peace of mind.

## LOCAL PROTECTION SUITE

Practice safe data protection and repurposing with the Local Protection Suite. This suite gives customers any point-in-time recovery with DVR-like roll-back capabilities for business continuity on block-based storage, allowing recovery of production applications with minimal data exposure. Application owners can tune recovery point objectives based on the criticality of data, and perform faster recovery through self-service capabilities. Create point-in-time copies to instantly restore production data residing on file- and block-based storage as well as use production copies for development, testing, decision support tools, reporting, and point-in-time backups.



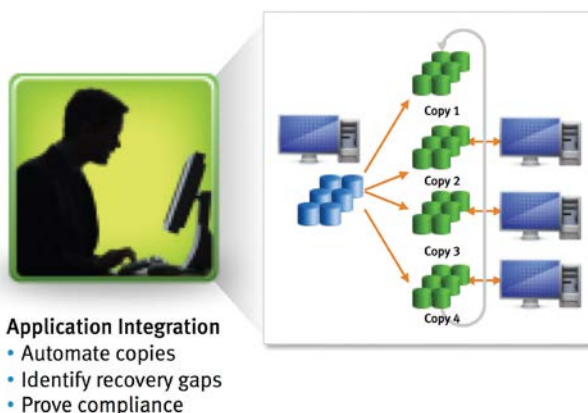
Local copies for instant recovery and repurposing  
Immediate disaster recovery at a remote site or restore back to production

## REMOTE PROTECTION SUITE

The Remote Protection Suite offers protection against localized failures, outages, and disasters. It lets customers deliver disaster recovery protection for any host and any application on block-based or file-based storage—without compromise—and with immediate DVR-like rollback to a point-in-time. Capabilities include compression and deduplication for WAN bandwidth reduction and application-specific recovery point objectives. Replication options are available for “many to one” fan-in replication for centralized backup operations, as well as “one-to-many” disaster recovery configurations.

## APPLICATION PROTECTION SUITE

With the Application Protection Suite, automate application-consistent copies of Microsoft® Exchange, SQL Server®, SharePoint® and Oracle, and prove recovery for defined service levels. User roles enable self-service protection, while improving visibility for all application recovery points. Alerts are generated automatically, enabling fast resolution to recovery gaps.



[Automate application copies and prove protection compliance](#)

## UNISPHERE MANAGEMENT SUITE

Unisphere Management Suite helps you monitor and manage multiple VNX systems with full visibility across the virtual stack - one suite that includes Unisphere, Unisphere Central and VNX Family Monitoring and Reporting.

Unisphere is the next-generation unified storage management platform for the VNX series that provides intuitive user interfaces with a task-oriented approach. VNX Family Monitoring and Reporting provides performance and capacity trending capabilities for VNX & VNXe storage systems. Unisphere Central allows VNXe and VNX customers to monitor the health, alerts and performance of large numbers of VNXe and VNX systems across a central console.

## THE INDUSTRY'S MOST EXTENSIVE STORAGE SOFTWARE OFFERINGS

The VNX series software is available in two comprehensive packages to ensure customers have all of the necessary capabilities to protect and manage their information. The VNX Total Protection Pack includes replication capabilities, point-in-time recovery features such as snaps and clones combined with automated application copies for assured recovery, along with monitoring and alerting for compliance with protection policies. The VNX Total Efficiency Pack includes all of the protection features plus “set it and forget it” performance optimization. VNX software is managed through Unisphere.

VNX Packs	VNX Suites	Function	
VNX Total Efficiency Pack	<b>FAST Suite</b> Automatically optimize for the highest system performance and the lowest storage cost simultaneously.	Dynamically tier data across drives	
		Extendable cache for performance boost	
		Trend analysis and reporting	
		Monitor and achieve performance objectives	
	<b>VNX Events and Retention Suite</b> Keep data safe from changes, deletions, and malicious activity.	Disk-based WORM functionality	
		Anti-virus integration and alerting	
	VNX Total Protection Pack	<b>Local Protection Suite</b> Practice safe data protection and repurposing.	DVR-like recovery for block storage
			Block storage snaps and clones
			File system snaps
		<b>Remote Protection Suite</b> Protect data against localized failures, outages, and disasters	Unified storage replication with DVR-like recovery
Integrated WAN deduplication and bandwidth reduction			
Granular file system level replication and recovery			
<b>Application Protection Suite</b> Automate application copies.	Application copy management		

## 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 at the [EMC Store](#).

EMC2, EMC, Unisphere, VNX, and the EMC logo are registered trademarks or trademarks of EMC Corporation in the United States and other countries. All other trademarks used herein are the property of their respective owners. © Copyright 2010, 2013, 2014 EMC Corporation. All rights reserved. Published in the USA. 8/14 Data Sheet H8509.9

EMC believes the information in this document is accurate as of its publication date. The information is subject to change without notice.