EMC VMAX3™ FAMILY SOFTWARE SUITES

ESSENTIALS

- Unmatched and simplified service level provisioning and management
- Intelligent forecasting and hinting automatically optimizes FAST policy for Oracle, SQL and other enterprise applications
- Embedded management software eliminates the need for a separate server, software installation, and setup
- FAST.X™ extends VMAX3's enterprise data services and automated storage tiering to external arrays
- Mainframe users can take advantage of VMAX3' s data services including SLO management and zDP for snaps
- VVol support enables per-VM SLO management and automation for VMware users
- ProtectPoint offers up to 10x the speed, and up to 50% cost savings as it tightly integrates VMAX3 with Data Domain backup systems
- Simplify VMAX3 management with the power of Unisphere™
- Manage up to 200 VMAX arrays from a single consolidated view with Unisphere 360
- SRDF improved performance and efficiency achieves six 9s of availability, including 3-site Star configurations
- SRDF/Metro delivers synchronous active/active replication across metro distances
- High-performance, zero-impact local replication with reengineered TimeFinder SnapVX

IT administrators everywhere are under constant pressure to maximize performance and availability at the lowest cost possible. EMC® meets these challenges with a set of unique and powerful storage and embedded data management software solutions that are optimized for the EMC VMAX3 family.

HYPERMAX OS – Is the industry's first storage and hypervisor converged operating system. It includes Enginuity, a set of Migration tools, Solutions Enabler and mainframe capabilities. A HYPERMAX OS license is required with each VMAX3 array.

SOFTWARE SUITES

Base Suite – Includes FAST software that automatically optimizes for the highest system performance and the lowest storage cost simultaneously and includes a variety of migration tools. The Base Suite provides VMAX3 provisioning and management via the command line interface (CLI).

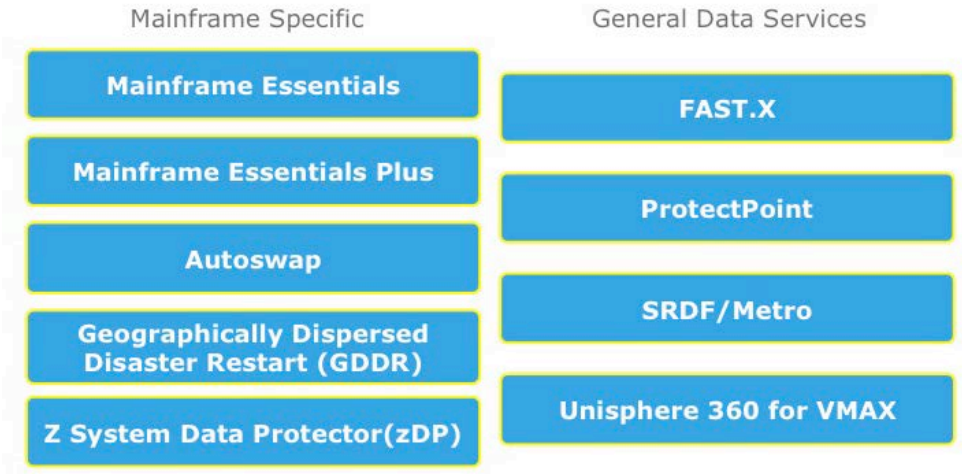
Advanced Suite – Our most popular Suite, includes our Unisphere GUI, plus advanced capabilities such as FAST hinting, Service Level Objective (SLO) Provisioning, support for VMware Virtual Volumes (VVols), and FAST. Achieve 1-click Service Level Provisioning for both block and file services within the array.

Local Replication Suite – Includes zero impact TimeFinder® SnapVX with cloud scalable snaps and clones to protect your vital data. SnapSure is available for file level local replication and Compatible Flash for mainframe.

Remote Replication Suite –Award winning SRDF® replication is designed to protect your data and applications in the event of a disaster with modes for block (synchronous, asynchronous, cluster edition), Replicator for File and Compatible Peer for mainframe data. Includes full 3-site Star mode and cascaded operation to optimize performance.

Total Productivity Pack - Includes the Advanced Suite, Local Replication Suite, and Remote Replication Suite, providing customers up to a 15% price saving compared with purchasing individual software products. Note that this Pack is only available for new VMAX3 orders and is not offered as an upgrade.

ADDITIONAL SOFTWARE OPTIONS



These standalone options provide specific data services not included in any of the software suites or the Total Productivity Package

SOFTWARE SUITES AND PACKAGES

BASE SUITE

The Base Suite includes all software required to provision and manage your VMAX3. The included FAST capability improves performance and maximizes storage efficiency 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.



ADVANCED SUITE

The Advanced Suite, our most popular offering, provides VMAX3 customers with powerful, 1-click capabilities that are designed to reduce the time, complexity, and cost of provisioning your new array. The Advanced Suite offers Unisphere for VMAX, Unisphere for File, and Workload Planner software in addition to advanced FAST software and VVol storage support for ease of provisioning across different storage tiers.

With the Advanced Suite, you are just a click away from provisioning workloads to meet their service level objectives. VMAX3 service levels are tightly integrated with EMC's advanced FAST software to optimize agility and array performance across all drive types in the system.

Application-aware FAST hinting further accelerates mission critical applications by monitoring the read/write status of the current workload and sending hints to the array for data that is likely to be accessed in a given period of time.

All these capabilities are managed through Unisphere for VMAX, an intuitive management interface that allows IT managers to maximize administrator productivity by dramatically reducing the time required to provision, manage, and monitor VMAX storage assets. Unisphere delivers the simplification, flexibility, and automation that facilitate transformations to a modern, converged data center. Unisphere for VMAX also makes reconfiguring the array even easier by reducing the number of steps required to delete and to repurpose volumes.

The Advanced Suite also includes the Unisphere Performance Viewer for detailed VMAX3 system performance analysis—available without the need for a live array connection. REST APIs simplify programmatic performance monitoring using cloud management and data center orchestration tools.

TOTAL PRODUCTIVITY PACK

The VMAX3 family software is available in a comprehensive package to ensure customers have all of the necessary capabilities to protect and manage their information. The Total Productivity Pack includes the Advanced Suite, Local and Remote Replication Suites, in a cost-effective package.

SOFTWARE ADD-ONS

FAST.X

This radically new approach to enterprise storage architecture separates software-based data services from the underlying hardware, allowing VMAX3 capabilities such as SRDF, SnapVX, ProtectPoint, eNAS and storage tiering to extend to other EMC and third-party arrays, as well as to the cloud.

PROTECTPOINT

EMC ProtectPoint provides faster, more efficient backups while eliminating the impact on application servers. By integrating VMAX3 and Data Domain storage, ProtectPoint reduces cost and complexity by eliminating traditional backup servers and applications while still providing the benefits of native backups, faster recovery times, and instant access to application backups from Data Domain for simple granular recovery.

SRDF/METRO

Built upon SRDF/S, SRDF/Metro provides synchronous active/active replication across metro distances for non-stop data access and higher availability. This provides concurrent access of storage groups and LUNs for seamless data mobility and application failover.

UNISPHERE 360

Available as an independently purchasable offering, Unisphere 360 aggregates and monitors up to 200 separate VMAX systems within a single data center, facilitating better insights for users with multiple VMAX instances.

MAINFRAME-SPECIFIC SOFTWARE ADD-ONS

MAINFRAME ESSENTIALS

While mainframe capabilities are included in the Hypermax OS, this package provides greater mainframe integration and more extensive management tools.

MAINFRAME ESSENTIALS PLUS

An expanded version of Mainframe Essentials, this package also features zBoost PAV Optimizer for improved performance on zHPF multi-track I/O. Mainframe Essentials Plus pack is defaulted on mainframe configurations and is not included in any other software suites.

AUTOSWAP

Built to non-disruptively move mainframe application workloads around VMAX systems for better availability. AutoSwap can even move workloads from one VMAX to another and from legacy systems to VMAX3. AutoSwap is available as a standalone offering and is not part of any software suite. .

GDDR

Geographically Dispersed Disaster Restart (GDDR) is EMC's premier business continuity automation solution for both planned and unplanned outages. GDDR is designed for both planned data center site switch operations and restarting operations following disasters ranging from the loss of compute capacity and/or disk array access, through total loss of a single data center or a regional disaster, including the loss of dual data centers.

zDP

z Data Protector (zDP) is designed to address the problem of large scale recovery from logical corruption. zDP is an EMC z/OS-based application that utilizes SnapVX snapshots to enable rapid recovery from logical data corruption. By providing easy access to multiple different point-in-time copies of data precise remediation of logical data corruption can be performed using storage or application-based recovery procedures.

EMC STORE:
CONFIGURE AND COMPARE

Compare features and see options for the VMAX3 arrays.
Visit the EMC Store now.



store.emc.com/vmax

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 the EMC Store.

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