SOLUTION OVERVIEW

DATA PROTECTION FOR VMAX

The Data Protection Continuum in action, safeguarding and migrating EMC VMAX data

**Solutions at a Glance**

**Non-intrusive backup**
- Direct backup from primary storage to industry leading Data Domain protection storage
- Reduce data protection cost and complexity

**Active-Active availability**
- Delivers an active-active data availability infrastructure and fast array migration capability

**Mission critical point in time recovery**
- Provides concurrent local and remote replication
- Continuous data protection + recovery to any point in time for mission-critical applications

**A single pain of glass for snaps and recovery**
- Centralizes and simplifies management of snapshots and backups

Today’s Enterprise customers demand primary storage infrastructures that are known for the scale, performance, and mission-critical availability that the new VMAX³ and the previous generations of VMAX are famous for delivering. The new VMAX³ is purpose-built for hybrid cloud scale and provides one-click service level provisioning as well as the industry’s first storage hypervisor and OS to deliver an open application platform for running data services.

EMC also offers best-in-class data protection solutions for primary storage like VMAX. EMC’s data protection products far exceed enterprises’ requirements for ease of use, performance, and non-intrusive, automated protection of data, regardless of whether your data resides on local storage or is cloud-based.

**Achieving faster non-intrusive backups**

ProtectPoint provides faster, more efficient backup while eliminating the impact of backup on application servers. By enabling direct backup from VMAX³ to EMC Data Domain storage, ProtectPoint eliminates the need for traditional backup applications, which reduces overall cost and complexity.

With ProtectPoint, users gain the performance of snapshots with the functionality of backups. ProtectPoint streamlines the data protection infrastructure and introduces unparalleled efficiency by eliminating backup impact on the local area network (LAN) and minimizing storage area network (SAN) bandwidth requirements by sending only unique data from primary storage to protection storage.

In addition, by protecting all data on a Data Domain system, ProtectPoint enables reliable recovery and reduces backup storage requirements by 10 to 30x.

**Active-active availability and faster migrations**

VPLEX, the industry leading continuous availability and data mobility platform, supports the new VMAX³ enterprise storage systems, delivering an active-active infrastructure and continuous operations for mission-critical applications, including VMware, Oracle RAC, and SAP. VPLEX enables non-disruptive data migrations to new storage arrays for technology refreshes, allowing faster time to value when installing a VMAX³ storage system into an existing environment, without application or scheduled downtime.
Mission-critical point in time recovery
Complementing VPLEX, EMC RecoverPoint is an operational and disaster recovery solution, providing concurrent local and remote replication with continuous data protection with recovery to any point in time for mission-critical applications. Together, VPLEX and RecoverPoint deliver MetroPoint topology, creating an industry-unique advanced continuous availability solution with a continuous disaster recovery configuration that provides continuous operations for two data center sites, remote replication to a third site, and the ability to sustain a two-site failure with only a single DR copy.

Single pane of glass for snapshot management and recovery
Management of snapshots and related policies is simple with NetWorker Snapshot Management. The NetWorker Management Console (NMC) provides a single pane of glass for data protection. A Configuration Wizard within the NetWorker Management Console simplifies configuration of both snapshots and backups through dynamic discovery of application objects based on user options. NetWorker discovers snap capable filesystems and database objects, automatically reverting to traditional backup options for objects found on direct attached volumes. NetWorker supports application consistent snapshots for DB2, Oracle, and SAP with Oracle. Wizard-based configuration for Oracle and SAP with Oracle snapshots eliminates the need for complex scripting and risk of error, and a validation option will check configured resources to determine whether the snapshot operation will complete.

 Recovering from a snapshot is also quite simple using the Recovery UI within the NMC. Data recovery can also be granular enabling backup administrators to choose a full recovery or to recover individual files or database objects.