

OPTIMIZE DATA PROTECTION FOR DELL EMC CONVERGED INFRASTRUCTURE

INTEGRATED DATA PROTECTION

ESSENTIALS

Dell EMC Converged Solutions offer a robust set of capabilities to support data protection requirements, with Backup/Recovery, Replication, Archive, Business Continuity, and Application Mobility for mission-critical environments.

SOLUTIONS INCLUDE

- Dell EMC Data Domain
- Dell EMC Data Protection Suite for Backup (including Avamar and NetWorker)
- Dell EMC RecoverPoint/RecoverPoint for VMs
- VMware Site Recovery Manager
- Dell EMC VPLEX

MAXIMIZE BUSINESS OUTCOMES WITH THE RIGHT LEVEL OF PROTECTION FOR EACH APPLICATION

Your business has tiers of applications and data. The protection needs of that information extend across a spectrum—starting with basic low-cost daily backup and ranging up to zero data loss with zero downtime. Along that spectrum, compliance requirements must also be met.

Dell EMC believes customers are best served with a family of products that deliver precisely the right level of protection for each business need. Dell EMC further believes that customers need a way to deploy and scale data protection in a manner that reduces overhead, time, cost, and risk. To meet these needs, we developed the concept of integrated data protection.

INTEGRATION DEFINED

Legacy data protection “bolted-on” to a new converged or hyper-converged system may work, but it is not optimum. A complete converged infrastructure includes truly integrated data protection. It starts with architecting a best-practice solution that is designed to scale. The data protection components are then fully assembled in the Dell EMC factory, either into stand-alone Dell EMC cabinets (as a system that’s networked and configured with related Dell EMC VxBlock Systems or Dell EMC VxRack Systems) or integrated within a Dell EMC VxRail Appliance. True integration also means customers receive support for the converged infrastructure AND the data protection with just a single phone call.

Dell EMC offers a flexible family of solutions for streamlined backup and recovery, data replication, business continuity, and workload mobility to deliver reliable, predictable, and cost-effective availability for Dell EMC converged infrastructure. In other words: The right level of data protection for each service-level need.

INTEGRATED DATA PROTECTION FOR CONVERGED IS SIMPLE, COMPLETE, AND FLEXIBLE

- **Simple**—Dell EMC supplies the precise level of data protection needed, backed by responsive, expert support. This reduces your administrative burdens and frees IT personnel for more strategic tasks.
- **Complete**—End-to-end solutions ranging from basic backup and recovery to business continuity are integrated and validated by Dell EMC in controlled environments prior to delivery. This ensures timely, optimum functionality and performance of the data protection for each business application.
- **Flexible**—Manage risk by choosing from cost-effective daily backups, or continuous data replication with flexible rollback options to better align with desired recovery time objectives and Recovery Point objectives (RTO, RPO), or zero-data-loss business continuity for applications that demand continuous availability. This makes our Integrated Data Protection ideal for any organization that has made, or is about to make, the transition from disparate servers, network, and storage to a Dell EMC converged system.

BACKUP, ARCHIVE, AND RECOVERY

Dell EMC provides optimized VMware backup, archive, and recovery. The optimized solutions deliver increased scalability, reduced costs, and lower complexity when compared to legacy backup solutions. The Dell EMC backup system is built upon the industry's best of breed solutions: Dell EMC Data Protection Suite for Backup and Dell EMC Data Domain.

Dell EMC Data Protection Suite for Backup plus Data Domain—Data Protection Suite for Backup is an industry-leading backup and recovery software solution that includes Avamar, Networker, and other products, while Data Domain hardware easily and efficiently deduplicates and stores the backups to a dedicated disk. Data Protection Suite for Backup also includes exactly what you need for comprehensive backup monitoring, analysis, and reporting. Of course, long-term retention and backup to public or private cloud are supported, too. In addition to industry-leading high reliability and unmatched scalability, the combination of Data Protection Suite with Data Domain yields

- Up to 95 percent reduction in network utilization
- Up to 99 percent reduction in backup time
- Up to 38x reduction in backup storage utilization

Dell EMC integrated backup systems are also available with Data Domain as a stand-alone offering, giving you the flexibility to incorporate non-Dell EMC backup and recovery software into the solution.

OPERATIONAL RECOVERY, DISASTER RECOVERY, AND MIGRATIONS

Operational recovery from an application crash should be efficient and pain-free. Migration of applications and data from a legacy server to a new consolidated infrastructure should be easy. The ability to recover from a site disaster should be proven and low risk. **Dell EMC RecoverPoint, Dell EMC RecoverPoint for Virtual Machines, and VMware Site Recovery Manager** are the right products for comprehensive replication capabilities. Dell EMC RecoverPoint provides complete replication functionality at the disk volume level. Dell EMC RecoverPoint for Virtual Machines provides complete replication functionality of entire VMware servers (VMDK level replication). VMware Site Recovery Manager provides simple and reliable recovery and mobility of virtual machines between sites. Together with Dell EMC's integration into the converged infrastructure, these provide the confidence to deliver the recovery services expected.

- Deliver zero data loss with local continuous data protection and/or synchronous replication to a second site
- Minimize data loss with asynchronous replications to a second site with unlimited distance
- Simplify testing of disaster recovery
- Roll back protected applications to any point in time
- Ensure recovery consistency for interdependent applications spanning multiple VMware ESXi clusters
- Minimize the amount of bandwidth required for replication

CONTINUOUS AVAILABILITY AND MOBILITY

DELL EMC VPLEX

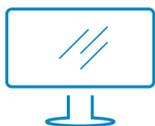
Dell EMC VPLEX is a unique virtual-storage technology that enables mission-critical applications to remain up and running during a variety of scenarios that would otherwise cause planned or unplanned downtime. Available factory-integrated with Block systems, VPLEX delivers data mobility and availability across arrays and sites. VPLEX permits painless, non-disruptive data movement, taking technologies like VMware and other clusters that were built assuming a single storage instance and enabling them to function across arrays and across distance. VPLEX also provides easy migrations, workload rebalancing, and dynamic upgrades of storage arrays. Users readily appreciate the ease of using vMotion and DRS to rebalance workloads between arrays without the complexity and time requirements of Storage vMotion and Storage DRS, and the ability to nondisruptively upgrade during normal business hours.

VPLEX enables the ability to do workload balancing or application migrations across multiple Dell EMC converged systems and across regional data centers, with zero downtime during a workload transfer.

DELL EMC CONVERGED SYSTEMS EXPERIENCE

Dell EMC is a leading innovator of converged infrastructure systems. Customers rely on our converged systems for the fastest deployment of data center infrastructure. Dell EMC converged systems are engineered to deliver the highest performance, operational simplicity, and scalability for the lowest TCO. Every system is a true converged infrastructure—each is engineered, manufactured, managed, supported, and sustained as ONE product and includes integrated data protection:

- Dell EMC's integration of data protection includes Professional Services to deliver a fully operational solution in the shortest possible time frame. Much of the configuration work traditionally performed at the customer site is done at the Dell EMC factory.
- Dell EMC converged systems are standardized architecture based on best-in-breed technologies.
- Every Dell EMC converged system is pre-integrated, tested, and validated in a Dell EMC factory environment, and rapidly delivered as a prepackaged solution.
- System Management with Dell EMC Vision Intelligent Operations is pre-installed on Dell EMC converged systems, providing a near real-time perspective of your system as a single object—to simplify managing system configurations and overall system health.
- Dell EMC converged systems are sustained with life cycle system reassurance. Dell EMC supplies the latest support matrices to ensure optimum system performance across every hardware and software component.
- Dell EMC engineering expertise delivers application optimization. Dell EMC continually tests a range of customer applications and use cases that have been configured according to industry best practices—to ensure optimum application and workload performance.



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