



## Optimize Data Protection for VxRail

**As customers look to create scalable hybrid cloud platforms that help drive innovation and competitive differentiation, Dell EMC data protection and VxRail appliances can support turnkey IT and digital transformation for your organization.**

In buying VxRail, you are not only buying a flexible infrastructure that can be easily expanded and scaled, but a foundation that can support future IAAS and PAAS requirements. Additionally, the transformation to virtualized data protection has changed the way data protection is managed. The trend is driving the need to reduce the complexity of management by simplifying and automating processes and self-service data protection has become the norm.

In a self-service model, backup admins are responsible for ensuring that the data protection solution conforms to the business requirements and application owners are taking responsibility of the backup and recovery for their applications. So ask yourself, does your software solution simplify and scale data protection for your VMware environments?

### Data Protection Suite for VMware + DD VE: Advantages



#### Simple: Scalable Protection

- vAdmins use their native VMware interfaces
- Simplified management
- Single solution vendor for complete data protection
- Centralized monitoring, reporting and search



#### Fast: Meet Backup Windows

- Get up and running within minutes and run on standard hardware
- Reduce virtual environment backup times by 50%
- Up to 30x faster recoveries than traditional image backups
- Automatic provisioning across the entire protection stack



#### Efficient: Reduce Costs & Management

- Flexible protection storage capacity from 500 GB
- Natively tier data to the cloud for long-term retention
- Up to 30x reduction in backup storage utilization
- Up to 99% less network traffic

## Simplify and Scale Data Protection for your VMware environments

Dell EMC's data protection portfolio for Dell EMC converged Infrastructure solutions is ideal for any organization looking for a next-gen IT environment. VxRail Appliance with Dell EMC data protection provide simple, fast and efficient protection of data and applications regardless of where they live, against whatever might happen, and at the right service level based on business value.

Dell EMC data protection for VxRail with Data Domain or DD VE with our Data Protection software provides backup and recovery, continuous data protection for any point-in-time recovery, proactive monitoring and analysis, reporting and backup file search capabilities.

## Data Protection for Virtualized and Cloud Environments

Dell EMC Data Domain appliances deliver the most trusted protection storage in the market. Data Domain Virtual Edition (DD VE) is a software-defined solution of Data Domain appliances, thereby maintaining all the core differentiating features of Data Domain appliances.

DD VE is fast and simple to download, deploy and configure. DD VE can be up and running in minutes on any standard server, converged or hyper-converged. DD VE can provide data protection to multiple virtual server environments and can protect data, backup and restore between virtual machines on the same server, across multiple servers or in the cloud too. It can serve protection across multi-tenant environments too.

DD VE can protect applications running in any cloud environment – AWS, Azure, and VMware Cloud. It can also scale up to 96 TB instances. DD VE can be downloaded from AWS and Azure Marketplaces too. DD VE also supports the ability of backing up VMware instances in an AWS environment.

### When you need fast backup and recovery

Client-side deduplication reduces network traffic by up to 99%, speeds backup times by up to 50%, and reduces backup storage utilization by an average of 36x. Recovery is simple, while providing fast access to backup data. Instant access to a VM image enables rapid deployment of production images into test and development environments, as well as full image recovery for disaster recovery.

### When you need seamless data protection

Dell EMC data protection is the only data protection solution with integration into all VMware interfaces. Backup and VMware Administrators manage data protection leveraging the VMware interfaces they already know. And, automated replication of backup data ensures that you have reliable off-site recovery, including long term retention.

## Benefits of DD VE for VxRail

- The same services extended across physical Data Domain systems and SDDC
- All improvements in DD OS will be available across the product line
- IT staff can leverage current knowledge and skills about DD across SDDC, ROBO and traditional data centers
- Physical DD system for high performance environments while DD VE for ROBO/small capacity software environments, service providers, and in a converged environment with VxRail
- DD Management Center can be used for managing both physical and virtual environments
- With DD VE, you can start small and grow as needed
- Flexibility in usage – standard hardware, distribution of licenses as desired and regrouping when needed

**When you need efficient backup and recovery**

Being able to recover data is the goal of all data protection solutions. Dell EMC data protection offers flexible and reliable recovery options. Application consistent backups ensure you can restore your mission-critical applications. Fast file-level restore ensures business continuity with minimal latency. And, to help prepare for disaster recovery, you have the option to perform automated restore rehearsals to validate your DR readiness. Data is encrypted during backup and replication, ensuring data is secure.

**When you need any point-in-time recovery**

Protect virtual machines with automated provisioning and orchestration capabilities for disaster and operational recovery with VM-level granularity. VMware Administrators can easily protect and replicate VMs with continuous replication for any point in time recovery – enabling inter-dependent application consistency. The solution is 100% software and is hypervisor-based – and includes automated disaster recovery integrated into VMware vCenter. And, it provides local and remote replication over any distance with synchronous or asynchronous replication.

**When you need unified analytics and insight**

Monitoring, reporting, and real-time analytics are needed to provide your organization with unified visibility and insight into utilization, effectiveness, and compliance of data protection. By collecting and analyzing information across the entire infrastructure, you have the ability to automate manual tasks, and enable faster problem solving, while simplifying management.

Centralized collection of the data provides a single, comprehensive view of your data protection environment and activities. You can perform monitoring and reporting on the configuration, status and performance of your replication and be notified of unprotected VMs.

Management and monitoring capabilities offered by Dell EMC data protection for VxRail significantly reduces time spent on audits, compliance and other reporting requirements. You will be better prepared to make informed decisions faster, while reducing cost and building efficiency.

If you don't see a path from traditional IT to next-gen IT, you'll get stuck in the past and need to rip and replace the protection environment in a couple of years to transform. You need a partner who can help you modernize the environment, laying the technical and business foundation for the next-gen environment AND who can then help you transition workloads to that next-gen environment seamlessly – across technology, people, and process.

## Data Protection Suite for VMware and Data Domain Virtual Edition for VxRail

Capability	Benefit	VxRail Data Protection <sup>2</sup>	DP Suite For VMware + DD VE
<b>Software-Only Data Protection</b>	Simplified deployment of backup and replication. Protect data and applications with VM granularity for any point-in-time disaster and operational recovery	✓	✓
<b>Integration with Cloud Orchestration Platforms</b>	Automatically apply backup & recovery when provisioning applications through vRealize Automation (vRA)	✓	✓
<b>Full VM and File-Level Recovery</b>	Recovery flexibility and control for complete VM or partial VM restores at the file level	✓	✓
<b>Application Consistency</b>	Support for Exchange, SAP, SQL, SharePoint, Oracle, DB2, Sybase, and IBM Domino for backup, as well as for replication	Exchange, SQL, SharePoint for backup	✓
<b>Flexible Protection Storage Capacity</b>	Scale from .500 GB per instance and grow as needed in as little as 1 TB increments		✓
<b>Cloud for LTR</b>	Natively tier deduplicated data to the cloud for long-term retention		✓
<b>Secure Multi-tenancy</b>	Enable data protection as a service with Data Domain systems in private or public cloud		✓
<b>Local &amp; Remote Protection of VM's</b>	Protect single or multiple VMs locally or remotely to target site. Scale business continuity data protection to match your VM growth up to 1000 VMs		✓
<b>Unified Data Protection Management</b>	Ensure data protection via proactive, cross-domain monitoring and alerting, reporting, chargeback, and automatic notification of unprotected VMs		✓
<b>Real-Time Analytics</b>	Performance and utilization optimization, plus capacity planning.		✓
<b>Unified Search</b>	Enterprise-wide data protection search with web-based recovery.		✓

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