

# DELL EMC VXRAIL APPLIANCE



## ESSENTIALS

- Fully integrated, preconfigured, and tested hyper-converged infrastructure appliance that is the standard for transforming VMware environments.
- Proven to deliver an up to 30% TCO advantage over do-it-yourself HCI, and a 43% lower cost of serviceability with integrated end-to-end support.
- Multiple purpose-built platforms with build-to-order configurations to support a wide range of customer use cases including graphics-intensive VDI, big data and analytics, entry level and remote office, and high performance computing.
- Faster all-flash paired with a full suite of industry-leading enterprise data services including HCI-native data-at-rest encryption, compression, deduplication, erasure coding, replication, backup, and cloud tiering make VxRail ready for almost any application or workload.
- New enhanced stretched clusters and intelligent, one-click operations further lower cost for affordable site protection and simple day-to-day management.
- Start small, with a few as three nodes. Single node scaling, storage capacity expansion, and vSphere license independence enable growth that meets business demands.
- Single point of global 24x7 support for both the hardware and software.

## The standard in hyper-converged infrastructure

Organizations are in different states of readiness with varying IT transformation priorities. Your ability to accelerate transformation is influenced by business priorities, customer expectations, market drivers, budget realities, and the desired end state.

With Dell EMC, you can transform at a pace that aligns with your business objectives. Dell EMC VxRail™ enables you to buy business outcomes. It accelerates and simplifies IT through standardization and automation.

VxRail is the *only* fully integrated, preconfigured, and tested HCI appliance powered by VMware vSAN™ and is the standard for transforming VMware infrastructures. VxRail provides a simple, cost effective hyper-converged solution that solves a wide range of your challenges and supports almost any use case, including tier-one applications and mixed workloads. Dell EMC VxRail features purpose-built platforms that deliver native HCI security with data-at-rest encryption (DARE), data services, resiliency, and QoS, enabling faster, better, and simpler delivery of virtual desktops, business-critical applications, and remote office infrastructure.

## THE VXRAIL ADVANTAGE

Based on a study by Silverton Consulting, VxRail is proven to deliver an up to 30% TCO advantage over do-it-yourself HCI. Additionally, VxRail offers a 43% lower cost of serviceability with integrated end-to-end support. In short, VxRail enables you to do more with less and allows your IT staff to focus on more strategic projects instead of simply keeping the lights on.

VxRail starts at three nodes for a low barrier to entry while delivering the same enterprise features and VMware management alignment. A wide range of platforms, with Dell PowerEdge servers as the foundation, and configure-to-order hardware that includes GPU hardware, dense storage and high performance computing options are designed to address any use case. One-click software and firmware upgrades, as well as non-disruptive single node scaling and storage capacity expansion provide a simple, predictable, “pay-as-you-grow” approach for future scale up and out as your business and user requirements evolve. The VxRail portfolio includes:

- **G Series** – General purpose 2U/4Node chassis that is best suited for a broad range of hyper-converged use cases.
- **V Series** – VDI-optimized 2U/1Node appliance with GPU hardware for graphics-intensive desktop deployments.
- **S Series** – Hybrid only storage dense 2U/1Node appliance for applications such as virtualized Microsoft SharePoint, Microsoft Exchange, big data, and analytics.
- **P Series** – Performance intensive 2U/1Node appliances optimized for heavy workloads such as databases.

- **E Series** – 1U/1Node offering with the same features and performance for ROBO deployments.

Bring-your-own VMware vSphere® licensing further extends your flexibility by enabling you to apply the functionality you need at the hypervisor level, while increasing savings by leveraging your existing licenses or ELAs. Apply vSphere Enterprise Plus, Standard, or Horizon bundles when the appliance is dedicated to VDI.

## SECURITY AND PERFORMANCE

Based on VMware vSphere 6.5u1 and vSAN 6.6u1 software, and built with Intel Broadwell processors, VxRail adds vSAN encryption at the cluster level and supports all vSAN features, including space efficiency features such as deduplication and compression. VxRail supports 2-factor authentication (SecurID and CAC), allowing you to avoid limited options and high cost of self-encrypting drives. vSAN encryption is built for compliance requirements and offers simple key management with support for all KMIP compliant key managers. Additionally, all-flash VxRail Appliances deliver 50% increase in IOPS and still include efficient and in-line deduplication, compression, and erasure coding at no additional cost.

## USABILITY AND MANAGEMENT

VxRail delivers one-click software and firmware upgrades and an automated infrastructure lifecycle management experience for VMware environments that allows you to further simplify IT infrastructure and operations. All virtualization management is done with the familiar vCenter Server. Additional IT and Cloud automation can be provided with optional software like VMware's vRealize Operations and vRealize Automation allowing you to seamlessly integrate VxRail as the foundation of your datacenter infrastructure.

## BACKUP AND RECOVERY

Enhanced stretched clusters with local protection enables a robust stretched cluster with both site and local protection, offering enterprise-level availability where an entire site failure can be tolerated as well as local component failures, with no data loss and zero down time. As always, included VMware Data Protection (VDP), RecoverPoint for VMs, and CloudArray provide simple, efficient, and proven backup, disaster recovery, and seamlessly extends storage capacity to public and private clouds. Optionally, Data Protection Suite for VMware extends included data protection features with the industry's broadest capabilities including backup and recovery, continuous data protection, monitoring and analysis, and search capabilities.

## CONTACT US

To learn more about how VxRail™ Appliances can help solve your business and IT challenges, [contact](#) your local representative or authorized reseller—or visit us at the [EMC Store](#).

## WORLD CLASS SERVICE AND SUPPORT

With a single point of global 24x7 support for both the hardware and software, and backed by ESRS for dial-home secure remote connection for monitoring, diagnosis, and repair, VxRail provides the ultimate appliance support on the market.

