



# VXRACK™ SYSTEM WITH SDDC POWERED BY VMWARE CLOUD FOUNDATION™

Dell EMC and VMware have expanded the industry's broadest hyper-converged infrastructure portfolio to provide a turnkey rack-scale, hyper-converged system with VxRack SDDC. The VxRack SDDC series is a fully integrated hardware and software solution powered by VMware Cloud Foundation. A complete turnkey solution at rack scale, the VxRack SDDC provides industry-best lifecycle management and assurance for VMware SDDC solutions adding rack-scale capabilities to complement the Dell EMC Vblock® Systems and VxRail™ Appliances.

Together with VMware, only Dell EMC can provide a tightly integrated hyper-converged solution with networking, computing, and software. VxRack SDDC brings standardization, modular scale, lifecycle management, and industry-best support for on-demand IT services that further accelerate business outcomes and the transformation to cloud computing.

## VxRack SDDC Highlights:

- Fully integrated turnkey VMware SDDC solution with managed physical and virtual infrastructure included
- Standardized on leading Dell EMC PowerEdge servers
- Built for growth to easily expand your environment without operational complexity
- Full lifecycle management and assurance
- Integrated networking with built-in hardware and software defined networking
- Performance at scale with all-flash drive configurations and network density best practices included
- Simplify the complexity with a multi-rack architecture that can easily be built and managed at scale, including logical planning and physical connections management as needed
- World class 24/7 support of hardware and software from the industry leader with a single point of contact

## VXRACK SDDC EASILY CREATES A MODERN VMWARE SOFTWARE DEFINED DATA CENTER

Dell EMC VxRack SDDC system powered by VMware Cloud Foundation is a new class of hyper-converged integrated systems that provides the easiest path for a VMware software-defined data center. This turnkey solution is fully integrated and takes advantage of market leading hardware and software technologies. It includes all the necessary compute, networking, and storage components to deliver a complete self-contained and optimized VMware experience. VxRack SDDC with VMware Cloud Foundation will simplify digital transformation and future proof your data center by removing the focus on maintaining infrastructure. Leveraging VxRack SDDC you can now easily deliver a complete VMware SDDC at the speed your business requires. This new level of modern agility will be your competitive advantage by allowing you to provide services faster, deploy applications sooner, and reduce downtime.

## EASILY DEPLOY A MODERN NEXT GENERATION DATA CENTER

Dell EMC working closely with VMware brings together everything you need for a complete software defined data center. A complete VMware software stack including a new VMware SDDC Manager delivers a radically simpler user experience by automating day 0 to day 2 system operations. VMware Cloud Foundation includes:

- VMware vSphere™ (hypervisor)
- VMware NSX™ (network virtualization)
- VMware vSAN™ (software-defined virtual storage)
- VMware SDDC Manager (end-to-end automated lifecycle management)

VxRack SDDC software options are available and include VMware vRealize Suite and VMware Horizon for VDI providing additional VxRack SDDC operations and monitoring for Cloud and IaaS use cases.



## PHYSICAL AND VIRTUAL NETWORKING BUILT IN

A hyper-converged network can be difficult to build as needs arise and many solutions simply exclude network integration. These complex components consist of the physical top-of-rack switches as well as software-defined networking (SDN) technologies. Overlooking the network makes it difficult to plan for growth and as the environment scales, operational performance degrades.

VxRack SDDC integrates the latest in networking at rack scale—both physical and software defined. Physical networking consists of top of rack (ToR) and rack-interconnect switches. The VMware SDDC Manager within VxRack SDDC allows for configuration, control, and management of the physical network elements. In addition, software defined networking is managed through VMware NSX.

Each physical rack contains two physical network switches controlling network traffic, providing redundancy, and managing out-of-band connectivity. With scale-out across multiple racks, east-west traffic is fully self-contained and connectivity between racks uses two interconnect rack switches.

VxRack SDDC comes with industry best practices already applied. Oversubscription, switch density, switch ports, high density, wire rates, and other complex networking challenges are managed. Best in class Cisco switches provide 10 GbE or 40 GbE IP connectivity between VxRack SDDC and the external network. The built-in 10 GbE network switches eliminate the network bottleneck that normally limits the scale of other hyper-converged infrastructure solutions in the market and provides a continued path for future growth.

Enhanced VM security through software-defined networking with VMware NSX – included with VMware Cloud Foundation – offers automated and intelligent operations and delivery of security services, including firewall, data security, activity monitoring, and VPN (IPSEC, SSL).

## STANDARDIZED ON LEADING DELL EMC POWEREDGE SERVERS

By integrating industry-leading Dell EMC PowerEdge servers, Dell EMC VxRack SDDC delivers the entire hyper-converged infrastructure stack (from software through servers to storage) and provides even more operational value, enabling faster innovation while leveraging the Dell EMC world-class supply chain. IT organizations can now partner with a single vendor for end-to-end technology solutions that will modernize their data center.

VxRack SDDC built on PowerEdge servers offers new higher performing choices including all-flash storage and the latest family of processors to address new customer use cases for both traditional, high performance, and cloud-native workloads running in mission critical environments.

## DELL EMC TRUSTED

Dell EMC is a leading innovator of intelligent converged infrastructure systems with the broadest portfolio on the market including Dell EMC VxRail™ Appliances, VxBlock™ Systems, and VxRack Systems. Like the rest of the family, VxRack SDDC is engineered, manufactured, managed, supported, and sustained as ONE product. Dell EMC is the only provider authorized to provide support for both the hardware and software, including VMware, with a single point of contact for VxRack SDDC.

Every VxRack SDDC includes a Release Certification Matrix (RCM), a documented set of firmware and software releases for all VxRack System components, pre-tested and certified for interoperability, and regularly delivered to customers to simplify upgrades and keep systems stabilized and optimized for operational integrity.

### CONTACT US

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

### FOR MORE INFORMATION

Dell EMC VxRack: [www.dell EMC.com/vxrack](http://www.dell EMC.com/vxrack)

VMware Cloud Foundation: <https://www.vmware.com/products/cloud-foundation.html>

Dell EMC Converged Infrastructure: <http://www.dell EMC.com/converged-infrastructure/benefits.htm>

