

# Dell EMC Ready Bundle for SAP Landscapes

Streamline and consolidate SAP landscapes while preparing to adopt SAP S/4HANA

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## Modernize your SAP landscape

SAP® landscapes are mission-critical environments that often sprawl over several systems. It can be very challenging to manage the master data across these systems while keeping the SAP application consistent across production, non-production, and test and development systems. So, how can you enhance efficiency while also creating capacity to innovate and introduce modern solutions?

You can start by consolidating onto modern infrastructure designed to deliver faster results with enhanced performance, agility and resiliency, and to put you on the road to adopting or expanding SAP S/4HANA®. The Dell EMC Ready Bundle for SAP Landscapes has been carefully designed to streamline SAP landscapes to reduce complexity and maintenance costs, while giving you better performance and investment protection for your mission-critical data.

Dell EMC has the knowledge, expertise and tools that make it easy for you to consolidate and modernize SAP landscapes. With the added flexibility of Dell EMC Professional Services, you can choose the combination of training, installation and application development that is right for your organization, and Dell EMC Financing makes it easier for you to get started, today.

### Streamline and reduce costs

#### Streamline and reduce costs

Streamlining the SAP application space makes it simpler to manage and helps reduce total cost of ownership (TCO). By spearheading SAP landscape modernization initiatives and refreshing outdated technologies with the latest cost-effective innovations, you can achieve greater performance agility and better efficiency — all while lowering operating expenses.

### Get faster results

#### Get faster results

The Dell EMC Ready Bundle for SAP Landscapes delivers compute, networking and storage in a single solution to reduce the time it takes to realize the benefits of a modern SAP infrastructure. The Dell EMC PowerEdge R940 Server maximizes application performance with the latest Intel® processors, while highly intelligent Dell EMC VMAX All Flash arrays deliver advanced storage technologies like compression, deduplication, RAID tiering, thin provisioning, and Symmetrix Remote Data Facility (SRDF) Metro and VMware® vSphere® High Availability (HA) to enable continuous availability and live migration within an SAP virtual infrastructure deployment.

### Prepare for the digital economy

#### Prepare for the digital economy

With digital infrastructure taking hold, the drive to move SAP landscapes from R/3 to S/4HANA is accelerating. The Dell EMC Ready Bundle for SAP Landscapes can help you chart a clear migration path to SAP S/4HANA. To take advantage of SAP HANA in-memory-based S/4, a digital infrastructure from Dell EMC is ideal. The Dell EMC Ready Bundle for SAP Landscapes also offers enterprise-class, certified protection options to ensure the data is always available. Some workloads need processing at the edge. Dell EMC's SAP-certified [Leonardo gateway device](#) allows for processing at the edge and data streaming back to the core. The Dell EMC Ready Bundle for SAP Landscapes enables new business processing and data driving insights leveraging SAP software.



## Are you experiencing any of the following challenges?

### Skyrocketing complexity and costs

Maintaining SAP infrastructure can be complex, time-consuming and costly. With limited budgets, most IT organizations tread water rather than innovate. Instead of using all the power of their software, applications and technologies to drive the business forward, IT organizations simply add more — more CPU, more storage, more spindles, more bandwidth and more software. Smart business leaders know that this strategy is not an enabling paradigm. It only increases complexity and costs, without significantly addressing performance, scale and growth needs.

### Running on slow, inefficient disk storage or non-optimized hybrid storage

Timely access to information is critical. With 24/7 transaction processing and users across the business demanding unfettered access to reporting functions, there's no time for storage bottlenecks. You need storage that can scale as data and users grow. That means modern storage solutions that modernize the data center and speed SAP performance.

### Preparing for the digital economy and modernizing your SAP landscape

The digital economy offers exciting new opportunities, but it also brings unprecedented IT challenges. As new software, hardware and other solutions are introduced, the old are discontinued and unsupported — and organizations that don't adapt and adopt quickly won't survive. A prime example is SAP S/4HANA. SAP has announced that it will only offer mainstream maintenance for SAP Business Suite 7 core application releases until the end of 2025. At that time, you'll need to be ready to transition to SAP S/4HANA. While every company's path to modernizing IT is unique, most share some common objectives in sustaining SAP ERP deployments while migrating to SAP S/4HANA. These objectives include the need to consolidate, automate and simplify IT to lower costs and increase the productivity of SAP administrators, database administrators (DBAs) and IT operations staff.



## Dell EMC solutions

### Dell EMC Ready Bundle for SAP Landscapes technical specifications.



Compute	Dell EMC PowerEdge R940	OR	Dell EMC PowerEdge R740xd
Processor	Up to four Intel Xeon® SP, up to 28 cores		Up to two Intel Xeon SP, up to 28 cores
Memory	48 DDR4 DIMM slots, supports RDIMM/LRDIMM, up to 2666MT/s, 6TB max up to 12 NVDIMM, 192GB max		24 DDR4 DIMM slots, supports RDIMM/LRDIMM, up to 2666MT/s, 3TB max up to 12 NVDIMM, 192GB max
	Supports registered ECC DDR4 DIMMs only		Supports registered ECC DDR4 DIMMs only
HBAs	External HBAs (RAID): H840		External HBAs (RAID): H840
	External HBAs (non-RAID): 12Gbps SAS HBA		External HBAs (non-RAID): 12Gbps SAS HBA
Drive bays	Front drive bays: Up to 24 x 2.5” SAS/SATA (HDD/SSD) with up to 12 NVMe PCIe SSD, max 122TB		Front drive bays: Up to 24 x 2.5” SAS/SATA (HDD/SSD) with up to 12 NVMe PCIe SSD, max 122TB
			Mid drive bays: Up to 4 x 2.5”, 25TB SAS/SATA (HDD/SSD) with up to 4 NVMe PCIe SSD, max 25TB or 4 x 3.5" max 40TB
		Rear drive bays: Up to 4 x 2.5” SAS/SATA (HDD/SSD), NVMe PCIe SSD, or 2 x 3.5" SAS/SATA HDD max 25TB	
Storage	VMAX 250, 450, or 950 or VMAX 250FX, 450FX or 950FX		
V-Bricks	1 or 2		
Cache	512GB–4TB (Cache per engine options are 512GB, 1TB or 2TB)		
Front end I/O modules	4 x 8Gbs 4 x 16Gbs		
eNAS I/O modules	2 x 10GbE		
Network	Dell EMC Connectrix DS-6610B FC SAN Switch	OR	Dell EMC Connectrix DS-6620B FC SAN Switch
Ports	8 (base) – 24		24 (base) – 48
Speed	16Gb		32Gb
Protection	Dell EMC Data Domain DD9300		
Throughput	24TB/hr		
Usable capacity	Up to 178TB		
Hypervisor	VMware vSphere 6.5 (purchased separately)		

**Dell EMC PowerEdge R740xd Server:** Maximum storage performance and scalability ideal for software-defined storage. With up to 24 NVMe drives, the R740xd ensures application performance scales to meet company demands.

**Dell EMC PowerEdge R940 Server:** Designed to power mission-critical applications and real-time decisions. With four sockets and up to 12 NVMe drives, the R940 provides scalable performance in just 3U.

**Dell EMC VMAX All Flash arrays:** Offer a combination of ease of use, scalability, high performance and a robust set of data services. The foundation of each VMAX All Flash array is the V-Brick, which encompasses a single VMAX engine.

**Dell EMC Connectrix DS Switch:** Designed to support the SAP requirements of small to medium environments with performance and economy.

**Dell EMC Data Domain DD9300:** Consolidate more of your backup, archive and disaster recovery on the Dell EMC Data Domain DD9300. This protection storage system offers performance and capacity for large enterprise workloads.

**Symmetrix Remote Data Facility (SRDF) Metro:** Active/active replication for transparent recovery time objective (RTO) / recovery point objective (RPO) cluster integration to automate failover/backup enables non-disruptive VMAX migrations.

## Why Dell EMC?

The combination of Dell and EMC brings together two industry-leading companies with strong reputations for value and innovation. Dell EMC holds leadership positions in some of the biggest and largest-growth categories in the IT infrastructure business, and that means you can confidently source your IT needs from one provider — Dell EMC.

- #1 converged infrastructure<sup>1</sup>
- #1 in traditional and all-flash storage<sup>2</sup>
- #1 virtualized data center infrastructure<sup>3</sup>
- #1 cloud IT infrastructure<sup>4</sup>
- #1 server virtualization and cloud systems management software (VMware)<sup>5</sup>
- #1 in data protection<sup>6</sup>
- #1 in software-defined storage<sup>7</sup>

### SAP infrastructure market share leader

- #1 in external enterprise storage for applications<sup>8</sup>
- #1 in external enterprise storage for virtualized applications<sup>9</sup>
- Dell EMC PowerEdge R940 holds the four-socket world record on SAP Sales and Distribution (SD) Benchmark<sup>10</sup>
- Up to 44% faster performance with the Dell EMC PowerEdge R940 Server with Intel Xeon Scalable Platinum 8180 processors, compared to the Dell EMC PowerEdge R930 Server with Intel Xeon E7-8893-v4 CPUs in an SAP Sales SD Sybase environment<sup>11</sup>

<sup>1</sup> IDC WW Quarterly Converged Systems Tracker, June 2016, Vendor Revenue — EMC FY 2015.

<sup>2</sup> IDC WW Quarterly Enterprise Storage Systems Tracker, June 2016, Vendor Revenue — EMC CY 2015.

<sup>3</sup> Dell EMC Annual Report, 2015.

<sup>4</sup> IDC WW Quarterly Cloud IT Infrastructure Tracker, Q1 June 2016, Vendor Revenue — EMC FY 2015.

<sup>5</sup> IDC WW Virtual Machine and Cloud System Market Shares 2015, July 2016.

<sup>6</sup> Dell EMC Pulse, "Gartner Recognizes EMC as a Leader in the 2016 Data Center Backup and Recovery Software Magic Quadrant," June 2016.

<sup>7</sup> IDC white paper, "Software-Defined Storage: A Pervasive Approach to IT Transformation Driven by the 3rd Platform," November 2015.

<sup>8</sup> Dell EMC, IDC multi-client study, "Storage User Demand Study, 2017" — Fall Edition, September 2017. Based on 1H2017 vendor revenues for external storage.

<sup>9</sup> EMC, IDC multi-client study, "Storage User Demand Study, 2015" — Fall Edition, December 2015. Based on 1H15 vendor revenues.

<sup>10</sup> Based on Dell EMC internal testing using the SAP Sales and Distribution Benchmark test, June 2017. SAP Published: [www.sap.com/benchmark](http://www.sap.com/benchmark).

<sup>11</sup> Based on Dell EMC internal testing using the SAP Sales and Distribution Benchmark test, June 2017. Actual performance will vary based on configuration, usage and manufacturing variability.

## Services and financing

### Dell EMC Professional Services

Solutions customized for your needs

Leverage on-site integration or application implementation with [Dell EMC Professional Services](#).

#### Support is always on for you

The Dell EMC Ready Bundle for SAP Landscapes comes with three years of award-winning [Dell EMC ProSupport](#) services and a three-year extended hardware warranty. You receive 24x7 phone support, escalation management, and collaborative assistance leveraging Dell EMC's global ProSupport infrastructure of over 30,000 technicians supporting more than 100 countries in 55 languages. Dell EMC's ProSupport Mission Critical services accelerate rapid resolution by providing quick delivery of on-site parts and labor and providing access to Dell EMC's proven and reliable Critical Situation process.

#### Deployment assistance when you need it

You can trust Dell EMC to deploy the equipment in your data center, including network cabling, operating system, firmware and hypervisor with [Dell EMC ProDeploy](#).

#### All-flash deployment and support

Dell EMC Services help you realize the return from your VMAX All Flash technology by providing an optimally deployed and supported solution that delivers a trusted mission-critical architecture ideally suited for your business and technical needs. [VMAX Services](#) include planning and design, implementation and installation, from data migration to support.

### Dell EMC Financial Services

- Full-service leasing and financing solutions are located throughout the US, Canada and Europe.
- Dell EMC Financial Services can finance the total technology solution.
- Electronic quoting and online contracts offer an efficient purchase experience.

Learn more about [Dell EMC Financial Services](#).

## Take the first step, today

Don't wait to have a streamlined and consolidated SAP landscape that puts you on the road to adopting SAP S/4HANA. Call your Dell EMC or authorized partner representative to find out more.

### Contact us

To learn more, visit [dell EMC.com](http://dell EMC.com) or contact your local representative or authorized reseller.

