DELL EMC SOLUTION FOR SAP: DESIGNED FOR LANDCAPE CONSOLIDATION
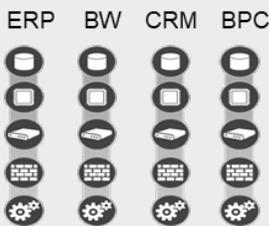
Invigorate legacy SAP applications, streamline SAP landscapes, and prepare for S/4HANA

ESSENTIALS

Lower TCO for SAP Landscapes

- Consolidate complex SAP landscapes running on "siloed" infrastructure

- Reduce cost for protecting "large" SAP data footprints

- Ensure maximum unitization of IT assets running SAP

SAP Business Suite

ERP   BW   CRM   BPC

Run "mixed" workloads on same IT Platform

- Deliver performance scale for highly virtualized SAP Landscapes

- Production and non-production systems

- OLTP / OLAP / Analytics / Big Data

Simplify SAP Landscape Management

- Increase productivity automating SAP system clone, copy and refresh operations

- Delivers full copies with the performance of SAP production instances

- Reduce storage costs for SAP copies via highly efficient data-reduction intelligence

Meet SLA's for Mission Critical SAP

- Enabling "always" on mission critical SAP in Digital Era

- Revision data protection for operational backups, archiving and long term retention

Today's Situation

SAP customers find themselves in a disruptive atmosphere.

CIOs and IT managers buck headwinds and downdrafts as they attempt to optimize legacy SAP landscapes while at the same time embarking on a journey to S/4HANA.

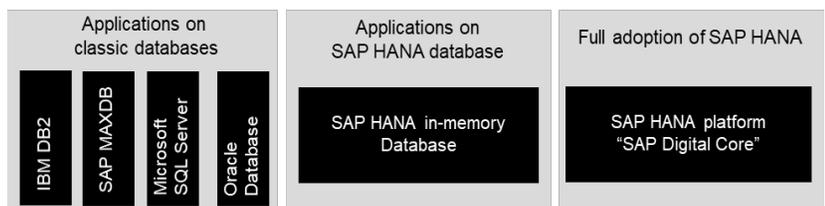### Cost of maintaining sprawling SAP Landscapes

It is common to have four, six, or even ten or more SAP applications running with each with its' own landscape comprised of development, test and quality assurance.

If you're like most organizations, 80% of IT budget trapped in operations and maintenance work[1]. Challenges can include,

- Difficulty scaling highly virtualized SAP environments

- Higher TCO running on "siloed" IT with large data footprints and,

- Long maintenance and upgrade cycles for SAP.

Preparing for SAP HANA

In addition to maintaining SAP Landscapes, IT needs to consider the implications of managing and maintaining traditional SAP ERP and SAP BW systems running on storage-based databases, while transitioning to an SAP HANA in-memory database and ultimately to SAP S/4HANA.

Applications on classic databases				Applications on SAP HANA database	Full adoption of SAP HANA
IBM DB2	SAP MAXDB	Microsoft SQL Server	Oracle Database	SAP HANA in-memory Database	SAP HANA platform "SAP Digital Core"

That means your SAP Landscapes most likely will include a mixed SAP workloads based on one or more of the following SAP deployment scenarios.

Invest in a solution that provides a modern infrastructure foundation designed to invigorate legacy SAP ERP with reduced cost and ready to power the Intelligent Enterprise with S/4 HANA.

Dell EMC Solution for SAP Landscape Consolidation

Below are some key essentials that can be enabled with Dell EMC SAP landscape consolidation solution.
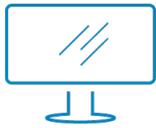
	Deliver predictable performance at scale for mixed workloads
	Eliminate "siloed" IT, by consolidating "mixed" SAP workloads (production and non-production) on a modern infrastructure platform designed to deliver predictable, consistent performance at scale for highly virtualized SAP landscapes including: • Mixed OLTP and OLAP systems concurrently handling high random reads and writes found in classic SAP NW ERP and SAP BW on storage databases such as Oracle and Microsoft SQL. • Delivers full copies with the performance of SAP production instances for Dev, Test, QAS systems. • Ready to run emerging SAP data analytics, big data, machine learning and IoT uses cases powered by SAP HANA in-memory database and S/4HANA.
	Simplify and accelerate SAP maintenance and upgrade lifecycles
	Automate management of SAP system copies by using a trusted storage-based cloning technologies, saves significant time and effort with reduced cost for SAP landscapes including. • Increased productivity by enabling SAP Basis Admins to focus on higher value work versus time consuming, error prone manual tasks • Faster delivery of high-performance copies with minimal-to-no impact on production • Lower costs by reducing the size of storage footprints for SAP copies via highly efficient data-reduction intelligence.
	Facilitating self-service application-driven data protection and retention
	Data protection for SAP not only addresses traditional challenges such as pressures on-backup windows, lack if visibility for SAP Admins, and cost associated with large multi-terabyte production systems, each with its' own landscape including Dev, Test and QAS, but also emerging scenarios with; • SAP Admins and DBA control for daily operational backup/restore • Faster backup with smaller data footprints for large SAP landscapes • Provide a path for longer term retention (LTR) on cloud-ready data protection storage locally of in a public cloud
	Strive for "always on" SAP
	Increasingly, in the digital era, business critical SAP systems need to be "always on". Revision and repurpose business continuity to eliminate single points of failure (SPOF) enabling continuous availability for SAP operations. • Deploying active-active data center environment to share resources across metro-locations • Re-purpose assets on demand, non-disruptively adding SAP resources helping to ensure no expensive resources are sitting idle as infrastructure at both sites is fully utilized. • Perform non-disruptive maintenance for tech refreshes
	Cloud-enabled Infrastructure
	Simplifying IT services for SAP is critical to business. Running SAP in a cloud operating model begins with cloud-enable virtual infrastructure. Dell EMC server, storage and data protection platforms are integrated with VMware enabling unified SAP applications and infrastructure management and operations.

Dell EMC Solution Infrastructure for SAP Landscape Consolidation

The solution focuses on traditional SAP landscapes while using SAP HANA certified Dell EMC servers and storage. Designed for SAP landscape consolidation the solution encompasses a variety of infrastructure design configuration and deployment options that are tailored to the requirements and preferences of individual organizations.

The solution compromises Dell EMC components, VMware components and SAP landscapes.

Component	Key Capabilities
PowerEdge Server	High performance servers are building block to start or scale SAP workloads. • Get performance for SAP workloads with a rich mix of components that deliver performance, density and power efficiency for both transactional processing and analytics. • SAP HANA certified for SAP TDI model • Be ready for growth with modular scalability for SAP HANA Scale-out deployments starting with high availability at 3TB RAM and grows to 48TB RAM without disruption. Easy scalability can improve TCO as application use evolves over the life of the system. • Scale in increments with no interruption and with no requirement to change architectures or remove existing system components.
PowerMax Storage Array	Deliver predictable performance for highly virtualized scale-up and scale-out systems landscapes. • Effortlessly handles mixed OLTP and OLAP systems handling the high random reads and writes SAP NW ERP and SAP BW on storage databases such as Oracle and Microsoft SQL. • SAP HANA TDI Storage certified for input/output all data and low-latency requirements for logs at the persistency layer. Minimize disruption to business operations with bullet-proof data services. • Enables active-active data center environment to share resources across metro-locations. • Enable application-consistent recovery to any point in time or any application event in time with consistency groups. • Protection against data loss by "going back in time" to the moment just before disruption happened enabling protection of critical business operations. Accelerate and simplify SAP system copy and refresh operations though automation • SAP LaMa Integration with PowerMax accelerates automation of repetitive, time-consuming tasks locally with advanced snapshots capabilities of SnapVX or remotely with SRDF/S. • Faster delivery of high-performance copies with minimal-to-no impact on production • Lower costs by reducing the size of storage footprints for SAP copies via highly efficient data-reduction intelligence.
Data Domain DDBoost Software Backup Storage	Deploying data protection models for near and long term retention strategies • SAP Admins and DBs get visibility and control with SAP certified DDBoost for Enterprise Applications integration with SAP BRtools for Oracle and SAP HANA Studio. • Leverage industry leading deduplication decreasing the size of SAP landscape backup footprint allowing for more backups with less storage with Data Domain Storage. • Perform faster SAP backups breaking through backup bottlenecks and gain worry-free protection with Dell EMC integrated solutions that can reduce virtualized SAP backup times. • Be ready to further lower cost minimizing physical footprint and management overhead for long- term SAP backups and archives with Data Domain Cloud Tier.

Learn More about Dell EMC SAP solutions

Contact a Dell EMC Expert

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