

DELL EMC SOLUTION: DESIGNED FOR SAP LANDSCAPE MANAGEMENT (SAP LAMA)

Simplify and accelerate SAP system clone, copy and refresh

ESSENTIALS

Increased Productivity

- Automate and orchestrate system clone, copy and refresh processes
- Free admins to focus on higher-value work versus system copy tasks
- Provide more copies on-demand using Dell EMC snapshots

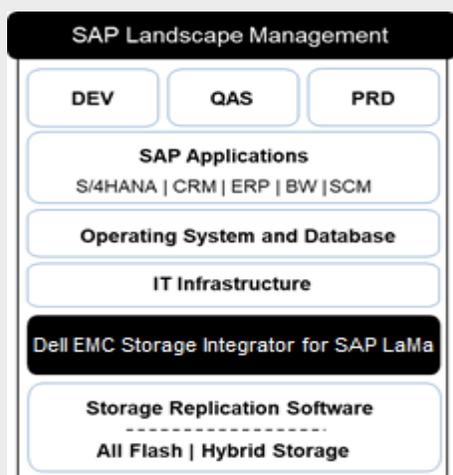
High Performance

- Copy data faster with no CPU overhead on the production SAP database server
- Deliver copies with the performance of SAP production instances

Lower Costs

- Reduce cost of storage for SAP copies via highly efficient data-reduction intelligence
- Instantly provision SAP copies with near-zero net-new storage

Logical Architecture



Today's Situation

In the digital era, enabling business agility for new initiatives while controlling costs is priority number one. Today, though, the CIO's biggest challenge is that 80% of the IT budget is trapped in operations and maintenance, with only 20% left for innovation. It is not surprising then, that simplifying management of complex SAP landscapes is a top priority.

Cut Time, Costs and Complexity for SAP System Provisioning

One area that's ripe for simplification is SAP system clone, copy and refresh processes. SAP Admins spend a great deal of time creating and managing copies of SAP production systems to support development, test, QAS and training environments.

The process can be time consuming with SAP system copy / refresh taking up to 10 business days. Most common challenges include:

- Coordination among storage, server and virtualization teams
- Manual, time-consuming, complex post-processing steps
- Risk of manual errors and quality of copy / refresh
- Large data footprints leading to increased storage costs

These challenges are the reason why organizations only make SAP production copies a few times in a year, slowing innovation and increasing the risk of data inconsistencies and corruption.

Dell EMC Solution for Managing SAP Landscapes

The Dell EMC Storage Integrator for SAP LaMa (ESI) solution brings SAP LaMa software together with Dell EMC storage-based local and remote replication software, providing a powerful platform to simplify management of SAP systems:

- SAP LaMa provides the central management dashboard to orchestrate the end-to-end process including post copy automation (PCA)
- Dell EMC ESI enables SAP LaMa to use powerful storage-based replication to deliver high performance SAP source system copies with economical space saving snapshots.

Dell EMC Solution: Designed for SAP Landscape Management (SAP LaMa)

DELL EMC VALIDATED USE CASES

- System clone
- System copy
- System refresh
- Restore-based system refresh with Data Domain
- System relocation
- End-to-end visibility and monitoring

SAP landscapes can have dozens of non-production systems, like development, training and sandbox. Automating the management of SAP system copies by using trusted storage-based cloning reduces Total Cost of Ownership (TCO) of an SAP landscape, resulting in:

- More productive SAP Admins, focused 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.

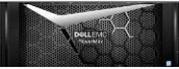
ESI for SAP LaMa Software Components

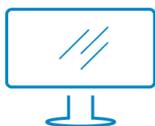
ESI for SAP LaMa software integrates Dell EMC storage systems with SAP LaMa. It supports physical (bare-metal) and virtual SAP systems, configured with physical raw device mapping (RDM) disks or Virtual Machine Disks (VMDK) on Dell EMC storage systems. ESI for SAP LaMa is delivered as an application on physical or virtual Linux hosts.

Components include:

- ESI plug-in — Dell EMC storage plug-in that integrates with SAP LaMa as a storage manager
- Unisphere REST API — storage-specific API commands used on Dell EMC PowerMax and Unity storage systems
- Enterprise High-level Storage Administration Console (EHAC) — GUI for access to Dell EMC storage systems
- Solutions Enabler (SE) with Enterprise Storage Library for SAP (ELSA) — provides integration between SAP instance-specific file systems and Dell EMC storage systems volumes connected through the SAN-FC protocol

Storage Platforms

 <p>PowerMax</p>	<p>Dell EMC's PowerMax provides unprecedented power and scale for consolidation, automation, and intelligent operations for mixed SAP and non-SAP workloads.</p> <p>SAP LaMa integration with PowerMax accelerates end-to-end automation of repetitive, time-consuming tasks for SAP system copy / refresh locally using advanced snapshot capabilities with SnapVX or remotely with SRDF/S.</p>
 <p>Unity All Flash & Hybrid</p>	<p>Dell EMC Unity represents the ultimate in storage simplicity and value in the midrange all-flash and hybrid storage by harnessing the performance of all-flash and the economic benefits of disk.</p> <p>SAP LaMa integration with Unity takes advantage of space saving thin clones for local copies.</p>



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