

# Dell EMC solutions for SAP Landscape Management (SAP LaMa)

Simplify and automate SAP system clone, copy, and refresh provisioning processes

## Benefits of Dell EMC solutions for SAP LaMa

### Increase Productivity

- Automate system clone, copy and refresh processes
- Free admins for higher-value work versus system refresh tasks
- Provide on-demand copies using Dell EMC storage snapshots or PowerProtect backups

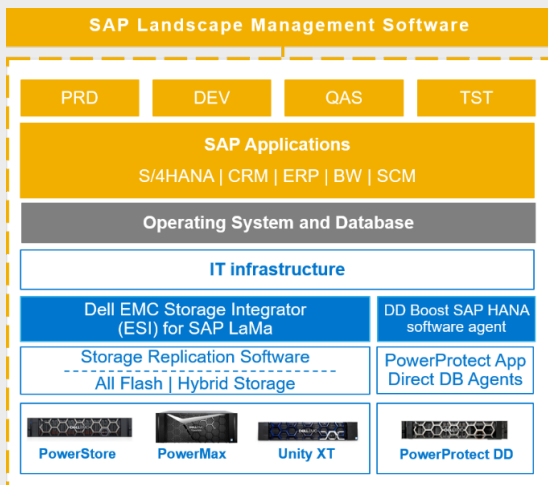
### Improve Efficiency

- Offload CPU overhead from the production server to Dell EMC storage system or Data Domain appliance
- Quickly create copies of production system

### Lower Costs

- Reduce costs for SAP copies via space-efficient storage snapshots or PowerProtect AppDirect restores

## 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 several business days. The 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 circumstances slow innovation and increase the risk of data inconsistencies and corruption – major reasons organizations are looking for new ways to improve the process.

## Dell EMC Solutions for Managing SAP Landscapes

SAP Landscape Management (SAP LaMa) is an automation and simplification solution that replaces manual or scripted processes that create a system clone, copy and refresh processes. The Dell EMC Storage Integrator (ESI) for SAP LaMa solution brings SAP LaMa software together with advanced Dell EMC storage-based local and remote replication services and data protection software, providing a powerful platform to simplify management of SAP landscapes:

- Dell ESI enables operations like SAP system relocation, snapshots and provisioning processes like system clone, copy and refresh.

Dell EMC Solution for SAP Landscape Management (SAP LaMa) Dell EMC Solution for SAP Landscap Management (SAP LaMa)

## Dell ESI for SAP LaMa Use Cases

- SAP LaMa system provisioning: system clone, system copy, system refresh
- SAP LaMa managed snapshots
- SAP LaMa system relocation
- SAP landscape-wide visibility and monitoring
- SAP LaMa restore-based system refresh with Dell EMC PowerProtect AppDirect and Data Domain

- Dell ESI enables SAP LaMa to use powerful storage-based replication to deliver high performance SAP source system copies with economical space saving snapshots
- Dell ESI supports SAP LaMa in physical, virtual, and cloud technologies providing a single pathway to manage most landscape configurations

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

## Dell ESI for SAP LaMa Software Components

Dell 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. Dell ESI for SAP LaMa is delivered as an application on physical or virtual Linux hosts.

Components include:

- Dell 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 PowerStore, PowerMax and Unity storage systems
- Dell EMC Enterprise High-level Storage Administration Console (EHAC) — GUI for access to Dell EMC storage systems
- Dell EMC 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

## Dell EMC Storage Platforms



Dell Technologies offers SAP enabled enterprises one of the industry's broadest portfolios of storage system options. Choose a solution from any PowerStore T, PowerMax, Unity, and Unity XT storage system models and get integration with SAP LaMa to improve management of your SAP landscape.



PowerStore

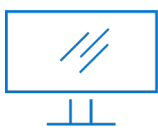
[Dell EMC PowerStore](#) all-flash, container-based enterprise storage system provides data-centric, intelligent, and adaptable architecture to support traditional and modern workload requirements while simplifying operations.

SAP LaMa integration with PowerStore automates management of SAP system copies and refresh by using trusted storage-based cloning technologies to save significant time and effort with reduced cost for SAP landscapes.

 <p>PowerMax</p>	<p><a href="#">Dell EMC PowerMax</a> enterprise platform provides unprecedented power and scale to consolidation, automate, and perform 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, remotely with SRDF/S to support redundancy/DR, and SRDF/Metro for high availability.</p>
 <p>Unity, Unity XT All Flash &amp; Hybrid</p>	<p><a href="#">Dell EMC Unity and Unity XT</a> represent the ultimate in storage simplicity and value in 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 and Unity XT takes advantage of space saving thin clones for local copies.</p>

For a complete list of supported Dell EMC storage systems refer to the [E-Lab Navigator](#), SAP section, Dell EMC ESI for SAP Landscape Management (LaMa) Simple Support Matrix

For more information, please visit: [www.DellTechnologies.com/SAP](http://www.DellTechnologies.com/SAP)



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