

Dell Enterprise Storage Integrator Plug-in for SAP Landscape Management

Automate and simplify management of SAP LaMa provisioning processes to save time and reduce costs

Benefits of Dell ESI 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 storage snapshots or PowerProtect backups

Improve Efficiency

- Offload CPU overhead from the production server to Dell storage system or PowerProtect DD Series appliance
- Quickly create copies of production system

Lower Costs

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

The big picture

An organization's digital transformation strategy has never been more critical than it is today. To keep ahead of the competition, organizations of all sizes need to transform IT to drive performance and efficiency and reinvest cost savings in innovation. Automating mundane repetitive, low value SAP landscape management processes is one way to free up resources to focus on new, high-value tasks and breathe more innovation into the business.

One area that's ripe for automation and simplification is repetitive 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 solution for managing SAP landscapes

SAP Landscape Management (SAP LaMa) is an orchestration solution that can help simplify, automate, and centralize the management and operations of your SAP landscapes. The solution replaces manual or scripted processes that create a system clone, copy and refresh processes. The Dell Enterprise Storage Integrator (ESI) Plug-in for SAP LaMa brings SAP LaMa software together with advanced Dell 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 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

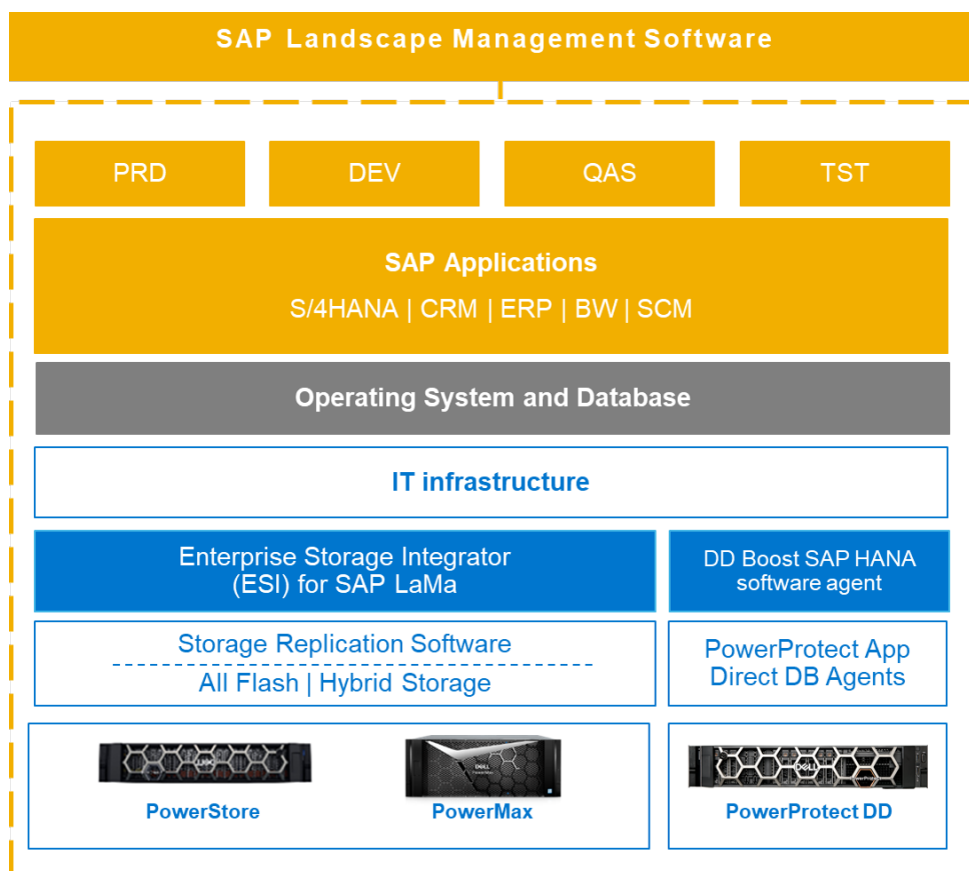
Dell ESI for SAP LaMa Use Cases

- 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 PowerProtect Application Direct Database Agent and PowerProtect DD Appliance series

SAP landscapes can have multiple 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

Logical Architecture



Dell ESI for SAP LaMa Software components

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

Dell storage platforms

Dell Technologies offers SAP enabled enterprises one of the industry's broadest portfolios of storage array options. Choose a solution from any PowerStore or PowerMax, storage system models and get integration with SAP LaMa to improve management of your SAP landscape.



PowerStore

The [Dell PowerStore](#) family of all-flash, container-based enterprise storage systems eliminate traditional tradeoffs in performance, scalability and storage efficiency, with a data-centric, intelligent, and adaptable architecture that transforms traditional and modern workloads 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.



PowerMax

The [Dell PowerMax](#) delivers new levels of performance, efficiency and scale with a future-proof architecture to consolidation, automate, and perform intelligent operations for mixed SAP and non-SAP workloads.

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.

PowerProtect DD Series Appliance



The [Dell PowerProtect DD Appliance series](#) enables organizations to protect, manage, and recover data at scale across diverse environments to minimize the risk of data loss and leverage the value of protected data.

SAP admins can perform their own SAP backup and recovery using PowerProtect DD that adds simplicity and efficiency to the process by integrating SAP HANA and BR*T Tools with Dell technology.

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

Take the next step

The Dell Technologies team of SAP specialists have experience analyzing SAP workloads and designing solutions to maximize the SAP experience for our joint customers. To learn about best practices for SAP LaMa with Dell storage, visit the [Dell Workloads Solutions Info Hub](#).



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