

**SAP Solution Brief**

SAP NetWeaver Landscape Virtualization  
Management

Objectives

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Quick Facts

# Cut Costs and Improve Agility by Automating Common System Administration Tasks



The Best-Run Businesses Run SAP™

## Simplify management of software systems and landscapes

# Simplify management of software systems and landscapes

Your IT department needs to do more than just maintain the SAP® software used to boost efficiency and differentiate your business. Today, you're expected to [respond swiftly to support new initiatives](#) while controlling IT costs. Virtualization and cloud technologies have played a key role in helping IT achieve these goals – but there's still more that can be done.

Reaching these goals isn't easy. Most companies have to rely on an unwieldy number of management tools to support this work – for example, to manage traditional and virtual applications and their underlying infrastructure. This fragments and limits your view of what's happening, which leads to hidden inefficiencies and unexpected downtime.

To manage critical applications across complex, hybrid IT landscapes, you need a single, unified view and tools to monitor, manage, and control resources. You must plan accordingly

to minimize business impact. And you need to take steps to control IT costs and increase business agility – for example, by freeing staff to focus on more strategic work rather than manual, error-prone tasks.

With SAP NetWeaver® Landscape Virtualization Management software, you can do all this and more. Use it to centrally configure, deploy, monitor, and manage your SAP software systems and landscapes in both physical and virtual infrastructures.



# Use a single console to manage infrastructure and SAP software

## Use a single console to manage infrastructure and SAP software

Clone, copy, and refresh more easily

Centrally view and monitor applications and infrastructure

Automate administrative tasks

SAP NetWeaver Landscape Virtualization Management software gives you visibility into and control over SAP and non-SAP software running in physical and virtual infrastructures. By automating and simplifying common administrative tasks, the software also helps reduce the time, effort, and cost of operating your SAP software systems while improving IT agility. As a result, your IT department can be more responsive to new business needs and opportunities.

SAP NetWeaver Landscape Virtualization Management complements the SAP Solution Manager application management solution by providing insight into infrastructures as well as the applications running in them. The software works in conjunction with key infrastructure components such as the physical hosts, virtualization layer, storage, network, and operating systems to provide an end-to-end dynamic view that enables improved decision making and control over the environment.



Configure, deploy, monitor, and manage SAP landscapes more easily while reducing the time, effort, and cost of managing underlying infrastructure.



# Clone, copy, and refresh more easily

Use a single console to manage infrastructure and SAP software

## Clone, copy, and refresh more easily

Centrally view and monitor applications and infrastructure

Automate administrative tasks

SAP NetWeaver Landscape Virtualization Management reduces the time and effort required to clone, copy, and refresh systems. Using automated workflows, you can:

- **Clone** – Make an exact image of a source application, such as a storage-level clone or a virtual machine clone of the SAP ERP application, while retaining the system name and ID. This enables you to theoretically test a business-critical production system without shutting it down.
- **Copy** – Make a copy of an existing application in order to create a new system. The software enables you to make a clone of the source application and then change the system name and ID so that it operates as a new system. It also supports post copy tasks

for SAP Business Suite applications such as the SAP ERP, SAP Customer Relationship Management, and SAP Supply Chain Management applications.

- **Refresh** – Refresh business data in a nonproduction system by copying over the production system. SAP NetWeaver Landscape Virtualization Management exports all of the critical information about the target system (such as the system name and ID, connections, and user information) before performing a system copy operation. The exported system configuration information is restored after the copy is made, and the target system is returned to the configuration it had prior to the start of the refresh process – just with updated business data.



# Centrally view and monitor applications and infrastructure

Use a single console to manage infrastructure and SAP software

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**Centrally view and monitor applications and infrastructure**

Automate administrative tasks

Do you find that your IT department is using lots of tools to monitor SAP applications, third-party applications, and IT infrastructure? And does this fragment and limit visibility into application and server performance?

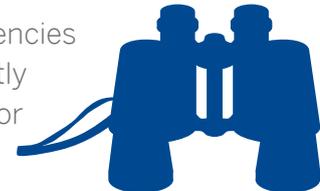
To address these issues, SAP NetWeaver Landscape Virtualization Management delivers centralized visualization and monitoring tools, dashboards, and reporting. Data about infrastructure and applications is collected in real time and then analyzed and published

through a "single pane of glass" so you can know exactly what's happening with managed systems and their associated infrastructure.

For example, the software provides a real-time, hierarchical, and graphical view of all your managed SAP software systems and the architecture of the infrastructure they run on. At any time, you can drill into your IT landscape and see the resources and networks that are in use. Visualizations are always up-to-date, accurate, and instantly accessible.

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Because you can see the dependencies between systems, you know exactly what will be impacted if you start or stop a particular application.



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Prebuilt dashboards give you a visual summary status of all activities, systems, physical and virtual hosts, diagnostic messages, and more. These visualizations are dynamic, configurable, and asynchronous. The software comes with preconfigured “pods” that include monitoring functionality for different metrics. Simply select the pods you want for a custom view of metrics and move them in and out of dashboards as needed. You can also select pods specific to a chosen entity – such as an application, virtual machine, or virtual host.

The software goes beyond visualizations and dashboards by delivering full health and performance monitoring of the infrastructures – both physical and virtual – and applications.

For example, you can see response times and number of users for each application, as well as memory and CPU usage of the hosts the applications are running on. And you get a single, integrated view of everything in your landscape – down to the lowest level of detail or component.

SAP NetWeaver Landscape Virtualization Management also supports consolidated management–style reporting. At any time, you can instantly see how many systems are being managed, their peak load usage, and how many systems IT has copied or refreshed. The software includes eight predefined reports with filters that allow you to target the data that you want to see.



# Automate administrative tasks

Use a single console to manage infrastructure and SAP software

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## **Automate administrative tasks**

SAP NetWeaver Landscape Virtualization Management gives you a framework for automating the tasks required to monitor and manage SAP applications and their supporting infrastructure. For example, using automatic capacity management, you can specify service-level agreements (SLAs) based on application response times; the software will automatically add or remove application servers from systems as needed to help ensure you meet SLAs. With two modes of operation (automatic or approval-based), you have full control over how and when you respond to fluctuating system capacity demands. Automation reduces the risk of human error, speeds response times, and

lowers infrastructure costs by eliminating costly overcapacity.

The software also includes a task planner for scheduling tasks related to the operation and management of SAP software systems. For example, you can schedule a system shutdown to occur at night without the need for human oversight. Moreover, the software alerts you when dependencies between applications require that you shut down systems in a particular order. An intersystem dependency framework captures the dependencies between SAP applications, which helps minimize risk when performing system operations.



## Realizing the benefits

### Realizing the benefits

With SAP NetWeaver Landscape Virtualization Management, you gain a single, unified view of your traditional and virtualized landscape – and the monitoring and management tools to keep everything running optimally and responsively for the business. You can:

- **Reduce time and effort to transition to virtual and cloud environments** – by using the software to copy from a physical host to a virtual host
- **Respond to and support new business needs** – for example, by customizing or extending the built-in functionality to better suit the needs of a particular environment

- **Radically simplify management of SAP landscapes** – by automating and scheduling tasks and gaining a single, unified view of what's happening with applications and architecture
- **Reduce operational costs for your SAP software systems** – because the software automates manual tasks, which saves time and makes the execution of tasks more reliable and predictable, and less prone to errors

It's never been easier to automate repetitive tasks, gain visibility and control over applications and infrastructures, and cut IT costs.





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Objectives

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**Summary**

Companies often spend too much time and effort configuring, deploying, monitoring, and managing SAP® software systems and landscapes. With SAP NetWeaver® Landscape Virtualization Management software, you can automate repetitive tasks and gain full visibility of and control over SAP and non-SAP software systems and their physical and virtual infrastructures. You'll make your system landscape ready for the cloud, as well as boost efficiency and agility and lower operating costs.

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**Objectives**

- Simplify management of SAP software systems and landscapes (physical and virtual)
- Monitor application and infrastructure metrics and status in real time
- Support new business initiatives quickly and cost effectively
- Reduce IT costs

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Solution

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Benefits

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**Quick Facts**

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**Solution**

- Customize functionality via custom cloning, validations, and notifications
- Visualize, monitor, and manage SAP software systems and infrastructure
- Enable automatic or approval-based provisioning and deprovisioning of application servers
- Schedule execution of tasks and system starts and stops

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**Benefits**

- Greater operational continuity via central management, visibility, and control of all infrastructure and software
- Less time, effort, and cost to administer SAP software systems
- Greater agility via faster clone, copy, and refresh processes and autoresponses to workload fluctuations

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**Learn more**

To learn more, call SAP today or visit us online at [www.scn.sap.com/community/it-management/virtualization](http://www.scn.sap.com/community/it-management/virtualization).



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