

HP SiteScope software

When you can see availability and performance, you can improve it.



Improve the availability and performance of your IT environment

HP SiteScope software helps you to agentlessly monitor the availability and performance of distributed IT infrastructure and applications including servers, operating systems, network services, virtualization software, applications, and application components. SiteScope continually monitors more than 100 types of IT components through a Web-based architecture that is lightweight and highly customizable. With SiteScope, you gain the real-time information you need to stay apprised of problems and solve bottlenecks before they become critical.

Increased visibility can decrease your TCO

SiteScope reduces your TCO by:

- Offering a monitoring solution that does not require you to install and maintain agents on every box
- Enabling rapid ignition—easy installation of a monitoring solution—in less than one hour
- Providing templates and global change and replace capabilities, which reduce manual efforts associated with configuration changes
- Automating actions, initiated as a result of monitor status change alerts, that enable quick and efficient operations management
- Offering solution templates that include specialized monitors, default metrics, proactive tests, and best practices
- Community and Trial editions of the software allow you to “try before you buy”
- Predictive analytics anticipates potential problems before they impact your users
- Light-weight event console allows you to track real-time status of monitored environment, prioritize and dispatch events, and manage events lifecycle

Scale with your needs

SiteScope serves as an ideal starting point if you need a low-cost monitoring solution or have little to no monitoring of your IT environment in place today. With support for 64-bit servers, a single SiteScope server can easily scale to thousands of monitors, applications, and network connections.

Protect your investment

As your company changes—through growth, mergers, or acquisitions—so will your monitoring and management needs. That is where SiteScope offers investment protection. It is constantly being evolved to support technologies like virtualization and cloud computing and enhanced to better integrate a wide variety of other HP software products. In addition, the flexible licensing model of SiteScope supports reusing purchased capacity for different needs.

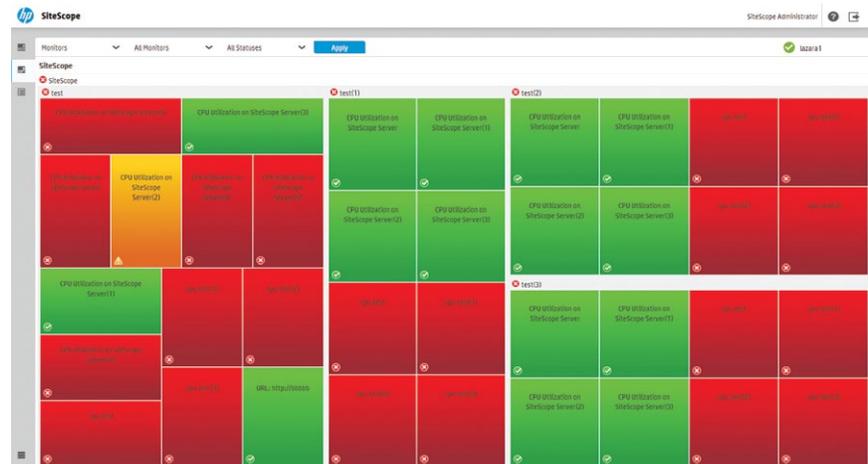
Key features and benefits

- Features an agentless, enterprise-ready architecture designed to lower your TCO
- Monitors more than 100 different target types for critical health and performance characteristics (e.g., HP Vertica, Hadoop, Cisco Works Monitor, Citrix® Monitor, Microsoft® Exchange Monitor, Oracle Monitor, SAP® Monitor, Siebel Monitor, WebLogic Monitor, and much more)
- Provides custom monitors that extend your SiteScope environment by enabling you to create new monitor types and customize existing monitors
- Provides alerting capabilities, based on customizable thresholds, so that you can fix problems before end users experience them
- Offers solution templates that feature built-in domain expertise in the form of specialized monitors, default metrics and thresholds, proactive tests, and best practices for a given application or component being monitored
- Provides a powerful Web-based user interface that enables easy configuration, installation, administration, real-time status, and reporting from one seamlessly integrated console
- Integrates with HP Operations Manager for those customers who need both agent-based and agentless monitoring
- Provides end-to-end monitoring through both top-down (applications) and bottom-up (infrastructure) monitoring
- Provides out-of-the-box monitoring for modern architectures with rapidly changing environments like virtualization and private and public cloud
- Predictive analytics detect behavioral changes on application metrics, send alerts before problems affect your business, and help speed problem resolution by providing details to assist with root cause analysis
- Lightweight Event Console simplifies the management of your IT environment and accelerates your ability to identify and resolve issues

How HP SiteScope works

SiteScope provides a centralized, scalable architecture that is implemented as a Java server application and supports key functions, such as: data collection, alerting, event management, and reporting. Data collection is performed through remote monitoring and does not require agents to be installed and maintained on monitored nodes. SiteScope logs into systems as a user from the central server, where several connection methods are supported, including JMX, SNMP, HTTP, SSH, NetBIOS, and WMI.

Figure 1. View all your monitors from one location



Comprehensive monitoring of complex and dynamic environments

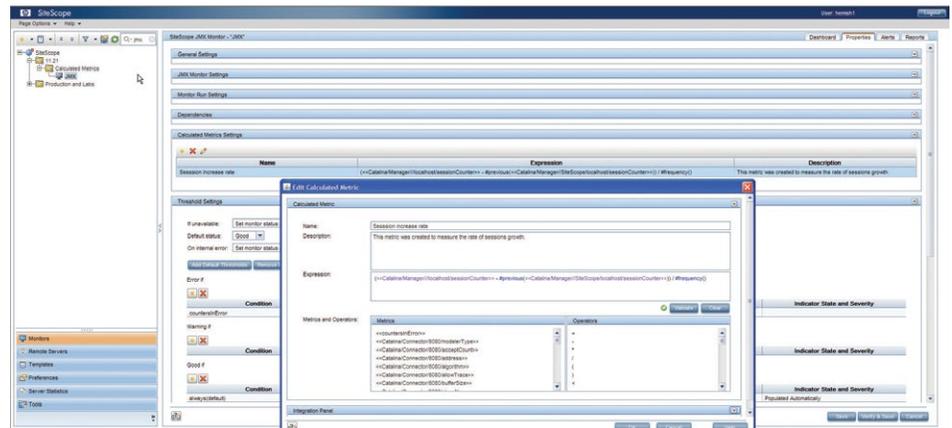
SiteScope provides more than 100 out-of-the-box monitors covering aspects such as utilization, response time, usage, and resource availability. These monitors span a variety of host types and application platforms including, but not limited to:

- Virtualization: Numerous monitors covering virtualization technologies from VMware, Microsoft, Citrix, and Oracle/Sun
- Cloud computing: Amazon Web Services monitor that enables monitoring of Amazon's Elastic Compute Cloud (EC2) and CloudWatch
- Heterogeneous environments: Monitors for Windows®, UNIX®, HP NonStop system and Linux systems
- Microsoft technologies: Monitors for SharePoint, Exchange, Active Directory, IIS, SQL Server, and Lync® Server (formerly OCS)
- Applications: Numerous monitors for Web application servers, databases, streaming technologies, networking, Web transaction monitors, and much more

Solution templates

SiteScope offers solution templates that don't require you to be an expert on the application. The benefit: Less effort and time are required to configure and deploy monitors for complex application environments. The templates feature built-in domain expertise in the form of specialized monitors, default metrics and thresholds, proactive tests, and best practices for a given application or monitoring component. The solution templates come with a best practices guide that specifies the most important KPIs and outlines steps for troubleshooting and are available for many popular enterprise applications.

Figure 2. Define your own metrics with powerful Calculated Metrics feature



Alerts, notifications, and reports

From a notification perspective, both standard methods—email, SNMP trap—and additional methods, such as HTTP post and database alerts, are supported. Alerts are sent to IT administrators based on configured thresholds and defined schedules. SiteScope enables generation of daily, weekly, and monthly summaries of single and multiple monitor readings.

Automation for increased productivity and efficiency

Templates allow you to reuse configurations so you don't have to reinvent the wheel every time you are asked to monitor a certain application or infrastructure. You can easily do a mass deployment of templates using a simple CSV file or via SiteScope API. SiteScope can publish changes done to a template after it has been deployed, so you can easily automate the process of updating your monitors as requirements change.

SiteScope can leverage LDAP to define group-level permissions, create user roles, assign security groups based on role, and automate both local and remote user authentication when logging into SiteScope. LDAP support eliminates having to manually define each user in SiteScope, making management of user permissions more efficient. Furthermore, all users and roles are easily exported to other SiteScope installations.

To increase productivity when managing large, dynamic environments, such as those that exist in private clouds, SiteScope offers an extended WS (Web Service)-based API. With this API, you can run various scenarios automatically without using the SiteScope UI. Some examples include creating and deploying templates; enabling and disabling monitors, groups, and alerts; deleting monitors, groups, and remote servers; and accessing all monitoring related data.

Elastic configuration

Elastic configuration is a way to automatically adjust the SiteScope monitoring configuration based on changes that are happening in your IT environment. HP SiteScope provides VMware, Hadoop, Vertica, JMX, KVM and Disc space monitors that allow you to monitor CPU, memory, network, state, and storage-related counters of a VMware host server as well as guest virtual machines on the host server.

Extend HP SiteScope capabilities with custom monitors

You can now extend your SiteScope capabilities with custom monitors. By using custom monitors, HP customers and partners have the ability to develop solutions for environments not supported by existing SiteScope monitors. Custom monitors (and templates) can also be shared with other users by publishing them to the SiteScope community on the HP Live Network.

Monitor IT health from anywhere

Using SiteScope mobile access capabilities, you can access SiteScope from either an iPhone®, using SiteScope free iPhone application, Android, or an iPad®. With this capability, you can search SiteScope servers to view individual monitors and group statistics, perform actions on search results to mitigate issues, respond to email alerts when a problem is detected in the IT infrastructure, add selected monitors and groups to a favorites list, and generate ad hoc reports for monitors, groups, or alerts for specific time periods.

All access to SiteScope servers is authenticated by login information and SSL communication helps ensure secure transmission of sensitive information.

Figure 3. Monitor IT health from anywhere using HP SiteScope mobile access via iPhone and Android



These monitors dynamically update themselves over time by adding and removing counters and thresholds as virtual machines move from one host system to another. In addition, baselining is supported, where thresholds are dynamically changed based on historical monitoring data.

Painlessly grow your monitoring solution as your company grows

SiteScope provides the ability to easily grow your monitoring environment through:

- A highly scalable server architecture that allows 20,000+ monitors per server and thousands of monitor runs per minute
- Rapid updating, monitoring, and deployment across the entire enterprise using mass-deploy templates and the “Publish Changes” feature

As your organization grows and starts to use a wider variety of products from the HP Business Service Management suite of products, you can further leverage your SiteScope investment. Integration of SiteScope with these products allows you to manage several SiteScope instances from one place using advanced BSM tools and features like cross-SiteScope reports, HP Service Level Management, and customized dashboards.

Failover capability for monitoring mission-critical applications in high-availability environments

SiteScope offers failover support to give you added redundancy and automatic failover protection if a SiteScope server experiences availability issues. When the primary SiteScope server becomes unavailable, a secondary server takes over, providing uninterrupted monitoring. This capability does not require additional hardware and takes advantage of mirroring operations that enables rollback capabilities in the event of interruption.

Integrate HP SiteScope with a wide variety of HP software products

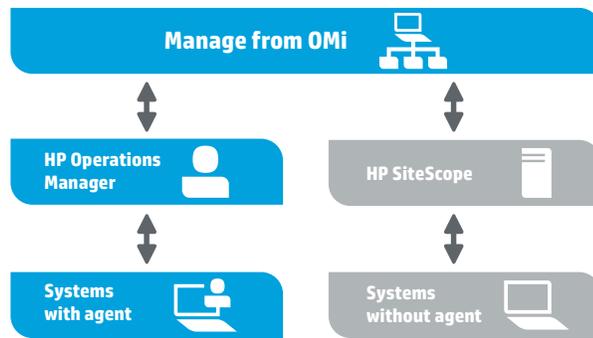
While SiteScope can be used standalone, its integration with a wide variety of other HP software products further demonstrates its unique differentiation in the marketplace, ability to be part of a much larger management solution, and ultimately its superior investment protection. The following paragraphs discuss a few of these integrations.

HP Operations Manager i (OMi) and HP Operations Manager (OM): combining agentless and agent-based monitoring

Many IT organizations use both agentless and agent-based monitoring for a variety of reasons. While SiteScope can be deployed standalone, in many situations it is used in conjunction with HP OMi and HP OM, such that a single console acts as a central repository for all discovered events. SiteScope collects events and metrics data and then logs it to an agent data store. This is accomplished with the assistance of the HP Operations Agent, which resides on the SiteScope server. This information is then forwarded to OM/OMi. Having this agent on the SiteScope server allows for easy setup and integration with OM and OMi. The integration also affords the following capabilities:

- SiteScope targets are added automatically to the OMS Map
- SiteScope alerts go directly to OM with full details
- SiteScope tools can be launched directly from the OM console
- SiteScope can be centrally managed from the OM console, allowing the transfer of configuration information from one SiteScope instance to another and synchronization of settings between multiple SiteScope servers
- SiteScope and OM template integration provides for centralized management of templates across multiple SiteScope instances via a unified administrative console

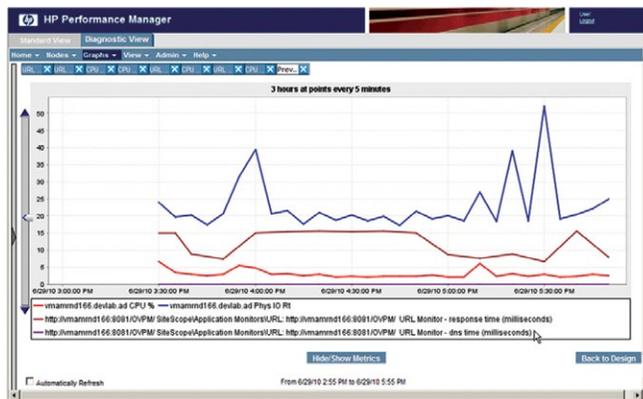
Figure 4. Combining agent-based and agentless monitoring into a single “pane of glass”



HP Performance Manager: View both agentless and agent-based data when monitoring performance

Using the Operations Agent that resides on the SiteScope server, you have visibility of SiteScope metrics in HP Performance Manager as well as the graphing component of OM.

Figure 5. Monitor both agent and agentless monitors within a single view



Integration with other HP software products

Data integration enables SiteScope reports to be displayed and the SiteScope UI to be hosted—all within HP Performance Center. You can also view SiteScope system level performance and availability information within HP Diagnostics. The ability to see SiteScope information within these two products provides greater context to help troubleshoot application performance-related problems. Integration with HP Continuous Delivery Automation provides the ability to deploy monitors in conjunction with application deployment.

Other integrations include the ability to send SiteScope events and metrics to HP Network Node Manager i (NNMi) and the automatic creation of monitors in SiteScope through its integration with HP Operations Orchestration. Lastly, SiteScope serves as the monitoring foundation for HP LoadRunner and Performance Center software, to better identify bottlenecks during the load testing phase.

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment.

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