Storage Resource Monitor
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The purpose of this document is to explain the value proposition of SolarWinds® Storage Resource Monitor (SRM). This detailed document will help you understand the key features of Storage Resource Monitor and how these features can benefit you in running your data center efficiently.

WHAT IS SOLARWINDS STORAGE RESOURCE MONITOR?

SolarWinds Storage Resource Monitor (SRM) is designed to provide multi-vendor, agentless NAS and SAN performance monitoring, as well as capacity monitoring and forecasting for your storage devices. Quickly and easily configure a full range of custom and pre-defined alerts and reports to help get a consolidated view of your storage solution. This can help prevent downtime and help ensure that your storage infrastructure is running at peak performance.

Problems SRM can help you solve

If you are facing any of the following pain points, SRM may be able to help.

» You have several storage vendors in your data center and no one tool to monitor them
» You have a manual capacity planning process
» You recently had to make a last-minute storage purchase
» You don’t have easy visibility into the information you need to justify new storage investments to management
» You experience performance issues on end-user applications caused by storage
» You don’t have visibility across IT infrastructure—application to storage—to pinpoint the cause and impact of performance issues

What makes SolarWinds SRM unique?

» SRM was built for unified storage monitoring: One tool for monitoring storage arrays from EMC, NetApp®, Dell®, Huawei®, Kaminario, and others.
» Resource savings: Save time and money with SRM’s automated storage capacity planning feature.
» Faster time to resolution: Having detailed visibility into storage arrays, RAID groups, and LUNs makes it easy to identify storage issues quickly and act faster.
» Make informed decisions: SRM offers hundreds of out-of-the-box reports that can help eliminate assumption-driven decisions.
» End-to-end IT monitoring: SRM is designed to provide a comprehensive picture of overall IT health. The AppStack™ dashboard can give you an instant view of your infrastructure, from application to storage.
» Cross-stack IT Systems and network data correlation to help discover and troubleshoot issues.
MONITORING STORAGE ARRAYS USING SRM

SolarWinds Storage Resource Monitor provides dashboards that are built for ease of use and customization that can help you identify critical performance and capacity information at the device (array/filer), pool, and LUN level. Combining SolarWinds Server & Application Monitor and Virtualization Manager to form the Application Stack view can help you identify and troubleshoot application issues quickly.

Unified Storage Monitoring

Understanding the health of your storage devices from different vendors can be challenging. Storage admins need to juggle multiple tools to ensure that the storage devices and systems are all functioning like they should. With a unified storage monitoring tool like SRM, you can have visibility into all your storage devices from a single tool. SRM’s home dashboard gives you an at-a-glance view of key storage metrics, such as usable capacity, raw disk summary, and highlights storage with performance risks. Also, SRM provides a list of alerts that need immediate attention and action.

The storage home dashboard shows critical storage issues in a snapshot, including performance problems, capacity risks, critical alerts, and events.
Storage Performance Monitoring

SRM was built to provide SAN and NAS performance monitoring and alerting to help you eliminate performance bottlenecks in your data center. Also, the unified view into storage performance can help simplify key tasks that are otherwise tedious and complex, including managing storage space consumption on RAID groups, mapping storage volumes back to host, and understanding how volumes are load balanced across storage arrays. SRM can help you determine whether all the objects in your storage environment are performing at their best or not. With the help of SRM, you can identify poorly performing LUNs, RAID groups, and disks.

Detailed Dashboards

SRM can help you navigate across all layers of storage, including arrays, storage pools, and LUNs. With just one click, you can seamlessly move from one layer to another. Each of these individual storage layers have a detailed dashboard that shows critical metrics indicating performance and health. With these features, you can quickly troubleshoot performance problems by isolating the actual hotspot and reducing unexpected downtime.
### Array Detailed Dashboard

Simple view of overall storage device performance and capacity.

Easily see array details from model, IP address, and firmware levels.

### Storage Pool Detailed Dashboard

Gives you the performance of the total pool. Quickly grasp the performance of individual LUNs under the pool.

The capacity summary shows you total pool capacity and how much capacity each associated LUN is holding. You can track how the capacity is being consumed at different levels.
LUN Detailed Dashboard

Automated Storage Capacity Planning

The storage capacity function in SRM is designed to track usage over time to help identify capacity issues in the array. You can also easily view growth trends and receive a forecasted view of when capacity will be reached. This helps administrators to plan when to add and when to re-allocate capacity. SRM can also reduce the complexity of storage capacity planning in both your virtual and physical infrastructure. Go deeper into the performance of datastores allocated to specific VMs in your environment. Trace dynamic relationships from apps, VMs, LUNs, pools, and arrays to discover capacity issues and whether the latency is really caused by storage performance. Identify which VMs are affected by storage issues and take necessary steps to proactively prevent VM downtime.

Get at-a-glance views of pools and LUNs/volumes to determine which are thick and thin. This helps you to identify capacity risks across all your devices.
STORAGE ALERTS AND REPORTING

Alerts

Receive alerts about performance issues with your storage devices, LUNs, storage pools/RAID groups, CIFS shares, and more. Set thresholds and generate proactive alerts that are customized to your business’s policies for usage and status information.

![Alert Details](image)

Receive easy-to-understand alerts that show which resources are triggering the alert, when it was triggered, and clear details on what the problem is.

Reporting

Get quick and insightful information on your arrays with pre-designed and custom reports. You can customize your reporting parameters to provide useful business insights. Out-of-the-box reports include enterprise capacity summary, RAID/storage pool group utilization, thin provisioning, free LUNS, asset information, and more. Reports can be scheduled, emailed, and even exported as CSV or HTML files for granular customization.
EVALUATION GUIDE: STORAGE RESOURCE MONITOR

Get easy-to-run executive reports across all storage resources.

EASY-TO-USE AND CUSTOMIZABLE DASHBOARDS

All SRM dashboards—Storage Summary, Capacity Dashboard, Performance Dashboard, and Detailed Views—are customizable. The drag-and-drop widgets allow you to design your dashboards to suit your needs.

Storage Summary Dashboard (Default)

Customize what is critical and remove what is not, ranging from storage performance to capacity concerns.
The above dashboard is a sample customized view.

**MONITOR IT SEAMLESSLY WITH SOLARWINDS ORION PLATFORM**

The Orion® Platform is a flagship proprietary platform on which SolarWinds network and systems management software products are built. The platform was built to provide a singular base for seamless integration between different products. The main objective of this platform is to facilitate end-to-end IT monitoring with absolute ease. Storage Resource Monitor (SRM) is part of the SolarWinds Orion Platform.

Being part of the Orion Platform helps you easily integrate SRM with other SolarWinds IT management software, such as Network Performance Monitor, Virtualization Manager, Server & Application Monitor, Web Performance Monitor, and more.

**Benefits of the Orion Platform:**

- End-to-end monitoring of your IT infrastructure
- A single platform that supports the varied needs of multiple IT teams (network, systems, virtualization, etc.)
- Centralized management and administration
- Consolidated monitoring data and context across various IT layers
AppStack Dashboard

The AppStack™ Dashboard in the Orion Platform is designed to give you a complete view of all storage layers and extended visibility into virtualization and application layers. With AppStack in place, you can drill down deeper across layers, and quickly identify root cause and take remedial action.

Quickly see key information by just hovering your mouse over the problem area. Drill down by simply clicking on the resource.

**HOW IS SRM LICENSED?**

SolarWinds Storage Resource Monitor (SRM) is licensed by the number of disks to manage. These are disks in the SAN or NAS devices, not physical servers.

Click here to view the SRM licensing tiers.

If you want to learn more about licensing, please reach out to us.

» Email us at sales@solarwinds.com

» Call us at (+1) 866.530.8100

» Generate an online quote
WHAT OUR CUSTOMERS ARE SAYING ABOUT SRM
(BY TECHVALIDATE®)

“Our organization uses everything available in Storage Resource Monitor, the very fact that once we installed it was operational in such a short time ‘right out of the box,’ with alerts, configurations, etc. It gave us instant visibility in a single pane of glass to see all the storage that we have.”
- Lazaro Vazquez, Systems Engineer, County of Santa Clara California

“With SRM I was able to solve severe disk bottleneck issues. I was able to pinpoint which LUN was causing the issue.”
- IT/Systems Administrator, Medium Enterprise, Construction Company

“The performance and ability for capacity trending and analysis alone is almost worth the price. I also like the co-joining of the SRM module with AppStack.”
- IT/Systems Administrator, Fortune 500 Energy & Utilities Company

“Storage is a black box to most server and network admins. SRM sheds light on that box and uncovers issues for all three teams—storage, network, and server—that might have otherwise gone unnoticed and uncorrelated without SRM.”
- Application Engineer, Large Enterprise Pharmaceuticals Company
ADDITIONAL RESOURCES

» Product Page »
» Supported Devices »
» Datasheet »
» Product Guide »
» Interactive Demo »
» Overview Video »

ABOUT SOLARWINDS

SolarWinds (NYSE:SWI) is a leading provider of powerful and affordable IT infrastructure management software. Our products give organizations worldwide, regardless of type, size or IT infrastructure complexity, the power to monitor and manage the performance of their IT environments, whether on-premises, in the cloud, or in hybrid models. We continuously engage with all types of technology professionals—IT operations professionals, DevOps professionals, and managed service providers (MSPs)—to understand the challenges they face maintaining high-performing and highly available IT infrastructures. The insights we gain from engaging with them, in places like our THWACK® online community, allow us to build products that solve well-understood IT management challenges in ways that technology professionals want them solved. This focus on the user and commitment to excellence in end-to-end hybrid IT performance management has established SolarWinds as a worldwide leader in network management software and MSP solutions. Learn more today at www.solarwinds.com.

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