



# What's New in Veeam nworks Management Pack™ 5.5 for VMware

Version 5.5 of the nworks Management Pack is the result of customer feedback and continued close partnership with both VMware and Microsoft.

Version 5.5 introduces a brand-new PRO Pack for System Center Virtual Machine Manager (SCVMM) that automates corrective action in response to performance issues. The PRO Pack works in conjunction with the nworks Management Pack and is being introduced as an optional add-on to the Management Pack at no additional charge.

Version 5.5 also includes several enhancements to the Management Pack itself.

Veeam nworks Management Pack 5.5 for VMware is the new release of Veeam's leading-edge integration for distributed VMware infrastructure monitoring and management in Microsoft System Center. By bringing VMware to the Operations Manager console, the nworks Management Pack protects your investment in System Center and allows 24x7 monitoring of your VMware environment with existing staff and tools, eliminating the cost of retraining and retooling.

Version 5.5 includes new features and enhancements in the following areas:

## nworks PRO Pack

Version 5.5 includes a brand-new PRO Pack for VMware that extends nworks' reach into System Center Virtual Machine Manager (SCVMM) and enhances VMM PRO (Performance and Resource Optimization) Tips for the VMware environment.

The nworks PRO Pack uses the detailed and granular metrics from the nworks Management Pack to automatically optimize the placement of VMware virtual machines (VMs) using VMware VMotion and VMM Intelligent Placement. The nworks PRO Pack generates PRO Tips that optimize VM placement based on metrics such as memory swapping and disk IOPS (input and output per second).

The nworks PRO Pack works with SCVMM 2008 R2.

## Updated certifications

The nworks Management Pack has been certified by VMware for VMware vSphere and the new vSphere API under the VMware Ready program.

The nworks Management Pack has also been updated in the new System Center MP Catalog on Pinpoint, signifying that it has passed Microsoft's MP best practice analysis and guidelines.

## Configurable data collection

Version 5.5 features configurable collection intervals. Each individual data class can have its own collection interval, allowing maximum scalability and performance while still collecting all the drilldown metrics to give the full picture on VMware health.

## nworks Enterprise Manager

The nworks Management Center, the browser-based central console for managing multiple nworks collectors, has been renamed nworks Enterprise Manager. The new nworks Enterprise Manager features a cleaner UI (user interface) with many usability and functional enhancements. It is directly accessible from the Ops Manager console, and can also be integrated as a plug-in to the vCenter client.

Other enhancements include:

- High-availability failover groups: nworks collectors can now be assigned to groups to control failover, allowing for efficient management of large, geographically dispersed monitoring environments.
- Improved load balancing: Load balancing now uses an improved algorithm, allowing for smarter monitoring job placement to distribute the load across nworks collectors.
- New connection wizard: A new connection wizard in nworks Enterprise Manager provides built-in deployment advice. It employs the new load-balancing algorithm to recommend the number of nworks collectors required for the monitoring load, monitors license usage, and allows full flexibility in job placement within the new failover groups.

## Advanced Ops Manager features

To maximize flexibility and efficiency, version 5.5 leverages advanced features in Ops Manager 2007, including:

- Consecutive Sample Monitors: Choose to alert only on repeated or sustained threshold breaches to reduce "console clutter" caused by temporary spikes.
- Optimized Performance Providers: Use these smart providers to reduce the storage footprint in the Ops Manager database while still gathering all the same metrics.

## Derived metrics

The nworks Management Pack includes derived metrics that extend the rich source of performance metrics available from the vSphere API. Derived metrics are calculated in the nworks collector. Version 5.5 includes graphs and dashboards, new threshold monitors, and data warehouse reports on the following new or improved derived metrics:

- Disk IOPS: Total input and output operations per second for each VMHBA storage connection. Also provides rollups for hosts and VMs.
- Total disk traffic in KB: Calculated for VMs, for hosts, and at the cluster level.
- Total network traffic: Amount of data transmitted and received. Calculated for VMs, for hosts, and at the cluster level.
- Memory swap file I/O rate: Now calculated for every VM, clearly showing which VM is the reason for high host swap usage.
- Memory pressure: This enhanced metric now factors in memory overcommitment, TPS (transparent page-sharing) and memory utilization to give proactive warning of memory resource issues.



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