Hewlett Packard Enterprise

Data sheet

HPE Operations Agent for NonStop software

Improves the Management of Large and Cross-platform Enterprise Solutions

HPE Operations Agent for NonStop software manages HPE NonStop servers and brings NonStop event data into larger enterprise management views.

Highlights

- HPE OMi support
- Ease of use for NonStop monitoring
- Event management
- Object management with HPE Operations Manager
- Integration with other enterprise management products
- Automatic discovery of objects
- Monitoring HPE NonStop RDF
- OVNM service maps
- Automatic and manual recovery actions
- Failover recovery
- Multiple node support
- HPE Operations Agent for NonStop application plug-ins

Introduction

HPE Operations Agent for NonStop software (formerly called OpenView NonStop Server Management, and still known as OVNM) is designed as an out-of-the-box solution to provide seamless integration for managing an HPE NonStop server-only environment or to bring NonStop server data into larger multi-platform management systems. OVNM offers a comprehensive and efficient management solution that helps businesses to monitor, control, report on, and automate corrective actions, thus ensuring the health of all parts of a business' managed infrastructure. OVNM brings NonStop server data into enterprise-wide management views, such as those driven by HPE Operations, IBM Tivoli® software, BMC Performance Manager (formerly PATROL) software, etc. In addition, it provides a complete NonStop server-only management solution.

With OVNM businesses can create specific views for a given enterprise solution. These views not only enable operations staff to detect functional problems quickly, but also provide a systematic approach to isolate the actual cause(s) and to associate that problem with a particular service.

HPE Operations Agent for NonStop facilitates event integration, and policy/service template setup, along with both operator-initiated and automated actions from multi-platform management consoles, or from its own OVNM Console. It offers automatic discovery and mapping of the entire NonStop server environment with an online graphical display of the status of every server object, giving the business a cost-effective and timesaving way to incorporate a NonStop environment rapidly and successfully into service delivery infrastructure of a business.

OVNM software includes a NonStop server component and a management server component. The NonStop server component monitors the status and health of the NonStop server and interfaces with the management server using TCP/IP. The management server component presents NonStop server status information to various enterprise-wide management systems as depicted in Figure 1.

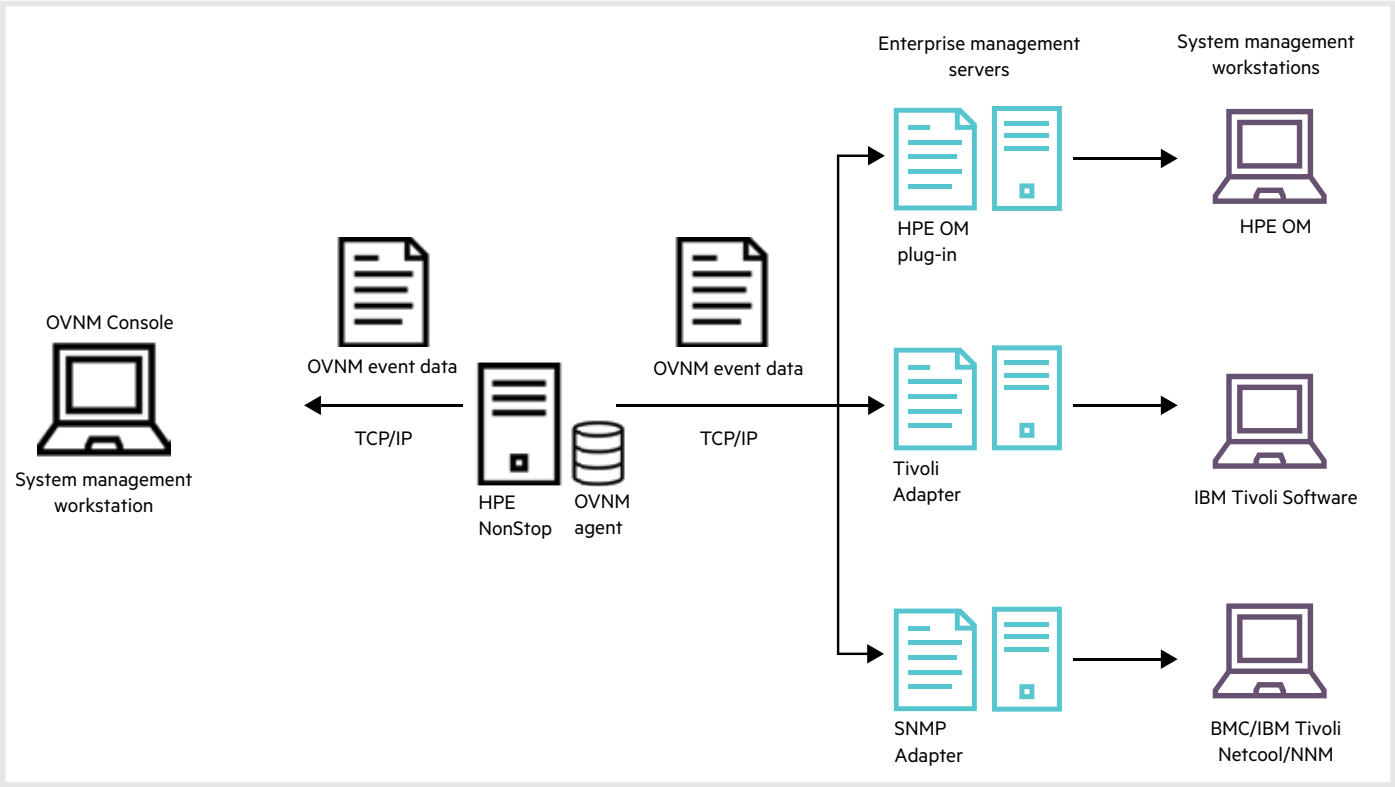

Figure 1. HPE Operations Agent not only manages the NonStop environment but also brings NonStop server data to the larger enterprise

Ease of use for NonStop monitoring

The Operations Agent makes it easy for NonStop application and system administrators to install and configure system alerts that will be sent to the OVNM Console or to various cross-platform enterprise management systems, such as HPE Operations Manager (OM). In configuring the HPE Operations Agent for NonStop requires very little prior knowledge of the HPE Operations Manager console.

With the supplied OVNM Console, administrators can configure and test NonStop object thresholds before the NonStop server is integrated into other server management production environments.

Event management

HPE Operations Agent for NonStop allows a user to selectively filter critical NonStop system and application events. You create policies based on certain criteria, easily customize alerts to meet specific needs, and then assign severity levels to events. This selected information can then be passed to various multi-platform management systems.

Using the OVNM Console, you create specific views of EMS messages for each type of key user who must review and take action. Using the OVNM ObjectMap facility, you create graphical displays that make it easy to identify problem areas and drill down to specific causes. In addition, with the powerful event management function, you quickly assign NonStop system processes and related events to user-defined views as depicted in Figure 2.

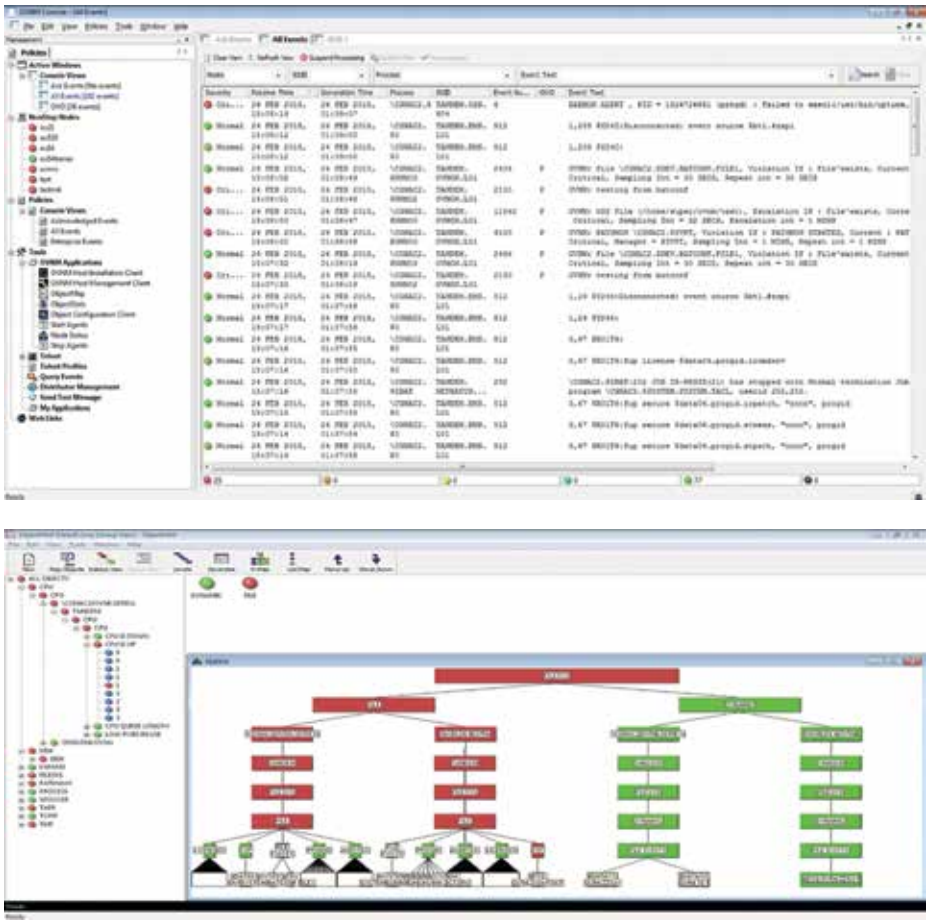

Figure 2. OVNM Console and ObjectMap showing graphical application

Supported applications and standards:

- ACI BASE24—EPS
- ACI BASE24 Classic
- eFunds fast payment

Object management with HPE Operations Manager

When NonStop servers are part of a larger enterprise managed by HPE Operations Manager software, a business can use OVNM's object management function to define objects such as processors, disks, files, processes, spoolers, communication interfaces, NonStop server subsystems etc. A business can thus set object thresholds to check availability and resource consumption, for example application availability or processor utilization. If a threshold is violated, the object management functionality generates an event, which is then reported to the HPE Operations message browser and its configured service view. See Figure 3.

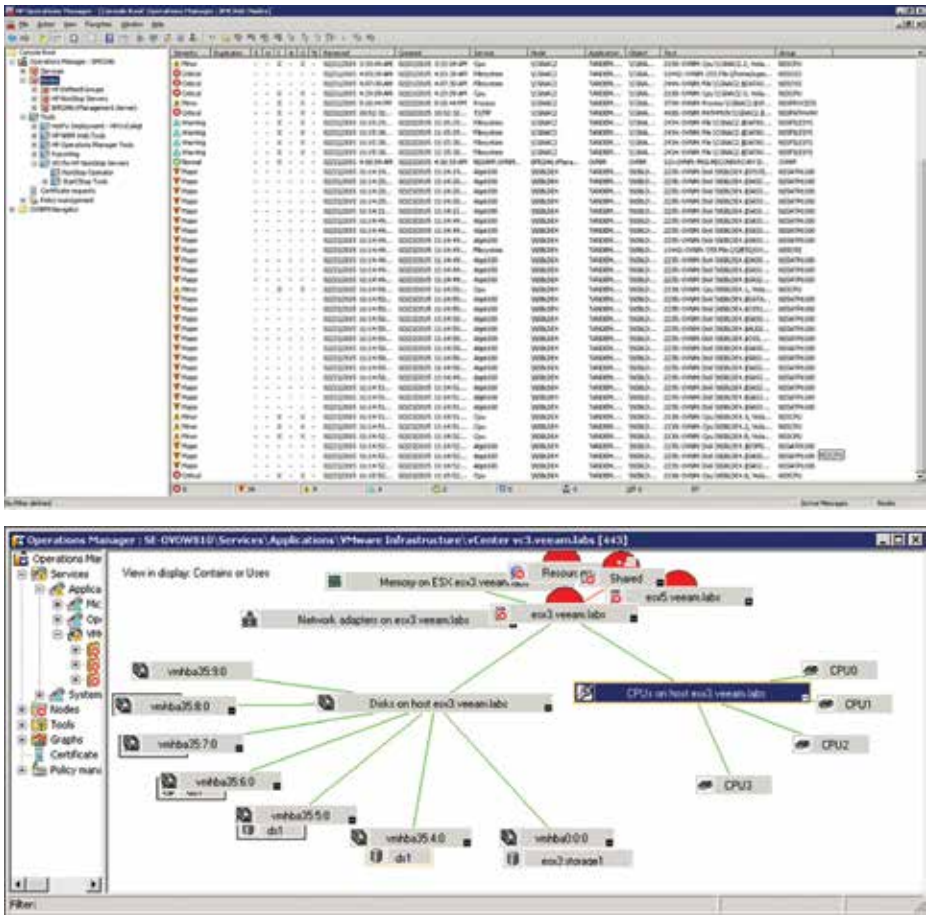

Figure 3. HPE Operations Manager Console showing system infrastructure status

Integration with other enterprise management products

The SNMP Adapter provided with the OVNM facilitates policy-based management of HPE NonStop servers that are parented to other cross-platform enterprise management systems that comply with SNMP Trap specifications. OVNM generated events from the HPE NonStop server are translated to SNMP events and are sent to SNMP-compliant management consoles such as HPE Operations Network Node Manager, BMC's PATROL, IBM's Netcool, etc.

Automatic discovery of objects

You use NonStop object threshold template of OVNM to set up automatic discovery of NonStop server objects, including hardware, middleware, applications etc.

OVNM's automatic discovery feature works the same for NonStop-only environments as it does for cross-platform enterprise management systems.

Support for HPE OMi Windows® and Linux®

- Support for monitoring more than 65000 NonStop Objects (CPU, Processes, files)
- Discovery of NonStop servers into the OMi RTSM
- Policies for monitoring the status and health of NonStop hardware and software peripherals and third party applications. Its collection sources span system messages, application messages, and log files.
- Tools to help users perform tasks such as launching corrective actions or running diagnostic checks (CPU utilization, EMS processes, Expand lines, free disk space, Tape Drive etc.)
- Tools to start and stop the OVNM agents

Monitoring HPE NonStop RDF

OVNM can be used to manage an HPE NonStop Remote Database Facility (RDF) environment to verify that all critical processes are up and running, to check for errors, and to report replication relative time delay (RTD).

Monitoring HPE NonStop CLIM

OVNM can be used to manage an HPE NonStop CLIM. The Cluster I/O Module (CLIM) provides the physical interface to the network or storage devices. The CLIM includes a ServerNet PCIe card with multiple ports that interface to the ServerNet fabric of the NonStop host system.

OVNM service maps

As mentioned earlier, OVNM maps NonStop server events into an application and system topology view within its Console ObjectMap panel.

OVNM brings server events into HPE Operation Manager's service maps automatically. This enables you to correlate events and performance thresholds to specific services from a customer standpoint, and construct service views that facilitate more efficient business systems management. These are user-defined views of managed objects, grouped by business category or any other relevant criteria. Service maps are key to successful monitoring of enterprise service-level agreements as in Figure 3.

Automatic and manual recovery actions

You can configure OVNM to automatically execute NonStop commands (scripts), and/or generate an email message when a specific object threshold is violated.

Additionally for HPE Operations Manager, OVNM provides out-of-the-box samples of manual operator-initiated commands that can be executed from the HPE Operations Manager without an operator having to possess knowledge of the specific syntax required.

Failover recovery

HPE Operations Agent for NonStop is designed to take full advantage of the NonStop server's fault tolerance. OVNM's unique design helps make sure that it delivers alert messages properly in the case of failures. Its software processes recover automatically to the backup process when the primary process fails. Moreover, OVNM accommodates alternate paths for delivery of alerts over TCP/IP, to safeguard against any communication loss.

Additionally, should a complete communication loss occur, OVNM stores all events and forwards them when communication has been re-established.

Multiple node support

HPE Operations Agent for NonStop is designed to manage up to 256 NonStop servers on its own or as part of a larger enterprise management framework. It allows a user to create and modify NonStop object thresholds across multiple NonStop server nodes.

HPE Operations Agent for NonStop application plug-ins

The following business application management plug-ins are included with the product:

- Performance monitoring: HPE Performance Agent for NonStop
- Banking applications: ACI BASE24 plug-in

HPE Tivoli Adapter for NonStop software

An optional product, HPE Tivoli Adapter for NonStop, provides open-system event monitoring of the NonStop server environment through the Tivoli Enterprise Console. Event details and types are mapped to corresponding Tivoli event space and severity slots, respectively. The Tivoli Adapter for NonStop helps ensure that an HPE NonStop environment is fully integrated into this centralized system management structure. The result is improved policy-based management through a reliable, scalable, and open enterprise-level solution.

Optional Migration Services from HPE—Strongly recommended

Changing an intricate server management system that has been in place for some time with hundreds of policies and business rules, can be a challenge. If business wishes to move from the current enterprise manageability environment to take advantage of OVNM's features and capabilities, HPE offers a service to estimate the scope and complexity of the migration effort and HPE installs the system at the site of the business. Thus, when a business moves to HPE Operations Agent for NonStop, it will have a new and highly efficient management system in operation.

Technical specifications

	Hardware	Software
HPE Operations Agent for NonStop host component	HPE Virtualized NonStop servers HPE Integrity NonStop X servers or HPE Integrity NonStop BladeSystem Servers or HPE Integrity NonStop NS-series servers	HPE NonStop operating system starting at Release Version Updates (RVUs) L15.02, J06.15, H06.26 or later. If using Virtualized NonStop servers then L17.02 or later. BE098AC or Q9086 or H9086—HPE NONSTOP MEASURE SW **Optional:** BE149AC or BE149ACE—HPE NONSTOP PERF AGENT or QOV02V1 or HOV02V1—HPE PERFORMANCE AGENT FOR NONSTOP BE150AC or BE150ACE—HPE NONSTOP OPS PERF AGENT or QOV03V3 or HOV03V3—HPE OPERATIONS AGENT-NONSTOP BUNDLE (Ops + Perf agents) BE152AW or BE152AWE—HPE NONSTOP TIVOLI ADAPTER WS or QOV08V1 or HOV08V1—HPE TIVOLI ADAPTER FOR NONSTOP
HPE Operations Agent for NonStop client	2.5 GHz Windows-based PC (500 MB disk space min.)	Windows XP, Windows 2000, Windows 2003, Windows Vista, Windows 7, Windows 8, and Windows 10

Ordering information

HPE Virtualized NonStop server

Product ID	Description
BE147ACE	HPE NONSTOP OPS AGENT
BE149ACE	HPE NONSTOP PERF AGENT (optional)
BE150ACE	HPE NONSTOP OPS PERF AGENT (bundle) (optional)
BE152AWE	HPE NONSTOP TIVOLI ADAPTER WS (optional)

HPE Integrity NonStop X-series server

Product ID	Description
BE147AC	HPE NONSTOP OPS AGENT
BE149AC	HPE NONSTOP PERF AGENT (optional)
BE150AC	HPE NONSTOP OPS PERF AGENT (bundle) (optional)
BE152AW	HPE NONSTOP TIVOLI ADAPTER WS (optional)

Ordering information (continued)

HPE Integrity NonStop BladeSystem

Product ID	Description
QOV01V5	HPE Operations Agent for NonStop software
QOV02V1	HPE Performance Agent for NonStop software (optional)
QOV03V3	HPE OPERATIONS AGENT-NONSTOP BUNDLE (Ops + Perf agents) (optional)
QOV08V1	HPE TIVOLI ADAPTER FOR NONSTOP (optional)

HPE Integrity NonStop NS-series server

Product ID	Description
HOV01V5	HPE Operations Agent for NonStop software
HOV02V1	HPE Performance Agent for NonStop software (optional)
HOV03V3	HPE OPERATIONS AGENT-NONSTOP BUNDLE (Ops + Perf agents) (optional)
HOV08V1	HPE TIVOLI ADAPTER FOR NONSTOP (optional)

Learn more at
hpe.com/info/nonstop

4AA1-1043ENN, May 2017, Rev. 7

Hewlett Packard Enterprise