HP OpenView HP OpenView Omniback II Integration
Release Notes

Version A.01.00
for
HP OpenView Operations
Version A.06.00

Manufacturing Part Number: pdf only

November 2001

Legal Notices

HP OpenView Omniback II Integration - Release Notes

Announcement

The following is for version A.01.00 of HP OpenView Omniback II Integration.

The Omniback II Integration provides a solution to monitor Omniback II health, status and performance. It allows the user to proactively detect and solve technical issues with multiple Omniback II cells from a single console.

Omniback II is HP OpenView's backup product that provides reliable protection and high accessibility for data. It offers backup and restore functionality tailored for enterprise-wide and distributed environments.

Omniback II's component concept proves to be flexible in an environment where elements of the backup infrastructure are placed on different networked systems. It scales from a single system to thousands of systems on several sites. Multiple backup environments can be managed from a single management system (Cell Manager) and multiple administrators may access Omniback II using a graphical user interface (GUI) from various systems simultaneously.

HP OpenView Operations (OVO) is HP OpenView's operations and problem management product for multi-vendor systems. OVO is a distributed client/server solution to help system administrators detect, solve, and prevent problems occurring in networks, on systems, and in applications in a multi-vendor, enterprise-wide, and distributed environment. The client/server concept of OVO is based on agent processes running on managed nodes and management server processes running on a central management system. The agent processes collect and process data and events on the managed nodes, and forward relevant information as messages to the management server. The message is displayed in a browser on the management server and may be responded with an automatic action. Based on the Vantage Point Performance Agent performance data can be collected over a time interval, metrics can be displayed graphically and alarm messages are generated based on performance thresholds.

The HP OpenView Omniback II Integration for Omniback II is a software package that instruments the OVO Agent running on one or more Omniback II Cell Managers to collect events, monitor logfiles and watch for essential processes to run. In the event of problems arising, messages are displayed in the OVO consoles message browser and the Omniback II service tree in the OVO Service Navigator displays any impact to Omniback II in general.

What's in This Version

The HP OpenView Omniback II Integration comes with the following features:

- Centralized problem management using OVO agents at the Omniback II cell server. The use of a central OVO management server for multiple Omniback II cell servers avoids duplicated administrative effort

- Real-time event and configuration information - including on-line instructions - for fast problem resolution

- Powerful monitors to detect potential problem areas and to keep track of Omniback II events

- Performance data collectors to detect Omniback II performance bottlenecks

- Performance data collection, monitoring, and reporting

- Central data repository for storing event records and action records for all managed Omniback II cell servers

- Integrated Omniback II GUI for managing multiple Omniback II cells from a single point, the OVO Management Server.

Known Problems and Workarounds

There are no known problems in HP OpenView Omniback II Integration, version A.01.00.

Compatibility Information and Installation Requirements

This section lists the software and hardware prerequisites that you must fulfil for the management server and managed nodes, before you install HP OpenView Omniback II Integration, version A.01.00.

The HP OpenView Omniback II Integration is used to monitor and manage the health and performance of Omniback II environments. You can manage one or more Omniback II cells with the HP OpenView Omniback II Integration. It should only be installed in an environment consisting of:

- One or more systems running OVO management server
- One or more OVO agents running on systems with the Omniback II Cell manager

It is only guaranteed to work in these environments.

Before starting the Omniback II Integration installation process, make sure that the following requirements are met:

- Ensure that your system meets all requirements, as detailed in "Supported Platforms and Installation Prerequisites" on page 8.
- For each Omniback II server, note:
  — an Omniback II administrator 's username
  — the password assigned to the user.

Supported Platforms and Installation Prerequisites

The HP OpenView Omniback II Integration is used to monitor and manage the health and performance of Omniback II environments. You can manage one or more Omniback II cells with the HP OpenView Omniback II Integration. It should only be installed in an environment consisting of:

- One or more systems running OVO management server
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Before starting the Omniback II Integration installation process, make sure that the following requirements are met:

Omniback II Supported Versions

The Omniback II Integration is designed to work with HP OpenView Omniback II, version 4.1 on the following platforms:

Table 1   HP OpenView Omniback II Availability

Operating System	Omniback II Version 4.1[a]
HP-UX 10.20	✔
HP-UX 11.00	✔
HP-UX 11.11	✔
Microsoft Windows NT 4.0	✔
Microsoft Windows 2000	✔

a. English, French, German, and Japanese.

OVO Management Server System

HP OpenView Operations management servers are supported on the following platforms. The OVO server can run on a different host system from the system where the Omniback II Cell Manager is installed.

HP OpenView Operations and HP OpenView Service Navigator is installed and configured on a system running one of the following Operating systems:

Table 2   OVO Management Server Supported Versions

Operating System	OVO version OVO 6.0 and Service Navigator 6.0[a]
HP-UX 10.20	✔
HP-UX 11.00	✔

a. English only.

OVO Patches Please ensure that the following minimum patches are installed.

Table 3   Patches for OVO and Service Navigator (version A.06.00)

Operating System	Patch Number	Description
HP-UX 10.x	PHSS_24263	Consolidated Server Patch A.06.08
	PHSS_23605	Service Navigator Patch A.06.08
	PHSS_24050	NT Agent Patch A.06.08
	PHSS_24916	HP-UX 10.x Agent Patch A.06.08
	PHSS_24917	HP-UX 11.x Agent Patch A.06.08
	PHSS_24619	HP-UX 10.20 OV-PA Agent Patch A.03.35
	PHSS_24621	HP-UX 11.x OV-PA Agent Patch A.03.35
HP-UX 11.x	PHSS_24264	Consolidated Server Patch A.06.08
	PHSS_24741	Service Navigator Patch A.06.09
	PHSS_25090	NT Agent Patch A.06.08
	PHSS_24609	HP-UX 10.x Agent Patch A.06.08
	PHSS_24610	HP-UX 11.x Agent Patch A.06.08
	PHSS_24620	HP-UX 10.20 OV-PA Agent Patch A.03.35
	PHSS_24622	HP-UX 11.x OV-PA Agent Patch A.03.35

Software Prerequisites on the OVO Management Server

Please ensure that the following software is installed on the OVO management server system:

- HP OpenView Operations, version A.06.0x. The console is installed and configured on the HP OpenView Operations management server or other appropriate system.

- *The* HP OpenView Omniback II *Console is installed on the* HP OpenView Operations *management server system.*

  The **swlist OMNIBACK-II** command returns:

  OMNIBACK-II A.04.10

  OMNIBACK-II.OMNI-CC A.04.10

  OMNIBACK-II.OMNI-CORE A.04.10

Hardware Prerequisites on the OVO Management Server Please ensure that the following hardware prerequisites are met on the OVO management server system:

- 50 MB disk space on the HP OpenView Operations management server system to install components necessary for the Omniback II Integration.

Managed Node Systems (Omniback II Cell Manager)

A number of agents and the Omniback II Integration are required for the complete management of Omniback II environments. The required components that must be installed on the managed node system hosting the Omniback II Cell Manager are:

- HP OpenView Operations agent
- HP OpenView Performance agent

NOTE The OVO and OVP agent patches must be installed on the OVO management server and must be distributed by the OVO administrator to the manage node systems prior to the distribution of the Omniback II Integration.

Supported OVO Agent Versions

The Omniback II Cell Manager installation must be made on a platform for which the OVO Agent is available. Please refer to Table 4 for details of the available agent versions and ensure that the following minimum patches are installed:

Table 4   HP OpenView Operations Agent Availability

Operating System	OVO Agent Version
HP-UX 10.20, 11.00, 11.11	A.06.08
Microsoft Windows NT 4.0/2000	A.06.08

Supported OVP Agent Versions

If the OVP agent is to be installed, the Omniback II installation must be made on a platform for which the OVP Agent is available. Please refer to Table 5 for details of the available agent versions.

Table 5   HP OpenView Performance Agent Availability

Operating System	OVP 6.0 Agent Version
HP-UX 10.20, 11.0, 11.11	C.03.35
Microsoft Windows NT 4.0/2000	C.03.00

Additional Software for HP-UX Managed Nodes

SNMP Emanate Agent

The SNMP Emanate Agent is necessary to capture SNMP traps sent by the Omniback II Cell Manager on the same system and let the OVO Agent forward any matching SNMP trap events as OpC messages to the OVO management server. This is called *Distributed Event Interception*, since the SNMP traps are intercepted on a managed node and not on the OVO management server.

The advantages, especially for large enterprise environments with a high number of Omniback II Cell Managers, are:

- The solution scales better: Additional Omniback II Cell Managers do not put additional load on the management server as the processing of SNMP traps is done on the managed node.

- Any automatic action configured as a response to an SNMP trap can be triggered and run locally on the managed node without involvement of the management server.

- Since no SNMP trap is sent from the managed node to the management server, the network load decreases.

- The probability that SNMP traps are lost is significantly reduced as these are not transmitted over the network.

- Security over (public) networks is increased, since SNMP traps do not use a network and are sent, received and processed only on the managed node. OpC messages are sent by the OVO agent to the OVO management server using DCE/RPCs, which allows authentication and encryption.

Please check that the SNMP Emanate Agent is installed on the Omnibacck II Cell Manager node using the command:

`# swlist -l product -a description OVSNMPAgent`

You should see the following entry:

```
OVSNMPAgent         "SNMP Agent functionality"
```

Additional Software for Windows Managed Nodes

FTP Service

If you have the Omniback II Cell Manager installed on a number of Windows systems, you may consider installing an FTP service. The FTP service is part of the Internet Service Manager Windows Component.

Configure the:

`c:\Program Files\OmniBack\Config`

directory as a virtual directory with the name:

`OBCONFIG`

The `obusergrp.pl` tool needs precisely this name.

remsh Daemon

To run the `OmniBack Start Service`, `OmniBack Stop Service` and `OmniBack Status` applications, on a Windows managed node from the OVO `Application Bank`, a `remsh` daemon must be installed on the Windows system. You may use the daemon supplied with the Windows Resource Kit or another alternative, such as from the MKS Toolkit.

Disk-Space Requirements

Table 6 lists the disk space requirements for both the installation of the Omniback II Integration software and the Omniback II Integration's run-time files on the OVO management server and, in addition, on the managed node.

Table 6   Disk-Space Requirements

Machine	OVO Version	Operating System	Total
OVO Management Server	OVO 6.0	HP-UX 10.20, 11.0	5 Mb
OVO Managed Node	OVO 6.0	HP-UX 10.20, 11.0, 11.11	1 Mb
		Microsoft Windows NT 4.0/2000	1.5 Mb

Memory (RAM) Requirements

There are no specific requirements concerning the amount of RAM installed on either the OVO management server or managed nodes, beyond the requirements of OVO and Omniback II.

Installing the HP OpenView Omniback II Integration

The Omniback II Integration is delivered as a Software Distributor (SD) depot which is used to install the HP OpenView Omniback II Integration onto the OVO management server through SD. This installs all components required for the management server and the managed nodes. The agent software and the configuration data for these agents is then distributed by the OVO administrator to the managed nodes using OVO.

Installation

The Omniback II Integration software is split into SD filesets and include the following components:

- Monitoring and administration programs.
- OVO configuration data (including message groups, templates, and user profiles).
- Omniback II Integration applications.
- Omniback II Integration documentation.

To install the software on the management server, execute the following command on the management server:

HP-UX   `# swinstall -s <depot_location> SPI-OMNIBACK-OVO`

The following filesets are installed:

`SPI-OB-SRV-HP`	Binary and script files to be installed on an HP-UX 10.x or 11.0 OVO management server.
`SPI-OB-CONF`	OVO configuration data files.
`SPI-OB-AGT-HP`	OVO agent files for the Omniback II Cell Manager on HP-UX platforms.
`SPI-OB-AGT-NT`	OVO agent files for the Omniback II Cell Manager on Windows NT 4.0 and 2000 platforms.
`SPI-OB-DOC`	Documentation for Omniback II Integration in Adobe Acrobat pdf format.

The following directories are created on the OVO management server system:

`/opt/OV/OpC/integration/obspi/bin`	Binary and script files
`/opt/OV/OpC/integration/obspi/etc`	XML template files for Service Navigation tree
`/opt/OV/OpC/integration/obspi/lib`	Libraries and message catalogs
`/opt/OV/OpC/integration/obspi/vpp`	Configuration files for OV-Performance agent
`/opt/OV/OpC/integration/obspi/doc`	Documentation
`/var/opt/OV/log/obspi`	Log files
`/var/opt/OV/share/tmp/obspi`	Temporary and runtime files
`/var/opt/OV/share/tmp/OpC_appl/obspi`	OVO files in uploadable format
`/etc/opt/OV/share/obspi/conf`	XML files uploaded by Service Manager
`/etc/opt/OV/share/bitmaps/C/omniback`	Icons and bitmaps
`/etc/opt/OV/share/registration/C/OBSPI`	Application registration file

Installation Verification

Check the following logfiles for errors:

- `/var/adm/swagent.log`
- `/var/opt/OV/log/OpC/mgmt_sv/obspicfgupld.log`

Agent Installation

The agent software has to be distributed to the managed nodes in two main steps:

- Add the Omniback II Cell manager host system to the OVO managed environment as a managed node.
- Run the `Add Omniback Cell` application for each Omniback II Cell manager node
- Distribute software, actions, commands, monitors and templates to the Omniback II Cell Manager managed node.

Adding the Omniback II Cell Manager System as an OVO Node To add the Omniback II Cell manager host system to the OVO managed environment as a managed node:

1. Login to OVO as user `opc_adm`.

2. Open the `Node Bank`.

3. Select **Actions** → **Node** → **Add...**

4. Add the label and hostname of the node that you are adding in the `Add Node` window.

You now have the Omniback II Cell manager system as a node in the `Node Bank`.

Running the Add Omniback Cell Application To run the Add Omniback Cell application, as user `opc_adm`:

1. Open the `Node Bank` and the `OBSPI_Applications` window.

2. Select the Omniback II **Cell Manager** node from the `Node Bank` and drag and drop it onto the **Add Omniback Cell** application.

   This opens a terminal window where you are asked to input some information:

   As a result, a new node group is added to the `Node Group Bank` and a new layout group is added to the `OBII ALL CELLS` node hierarchy.

Distributing Software, Actions, Commands, Monitors and Templates to the Omniback II Cell Manager

To distribute software, actions, commands, monitors and templates to the Omniback II Cell Manager managed node (the appropriate assignments have been made during installation):

1. Login as user `opc_adm`.

2. Select the appropriate node group from the `Node Group Bank`. The node group `OBII ALL MGRS` contains all Omniback II Cell Managers.

3. From the `Node Group Bank`, select:

   Actions → **Agents** → **Install / Update SW & Config...**

4. Follow any instructions displayed in the terminal window.

5. Complete the following manual steps where appropriate.

SNMP Configuration

UNIX   To enable the OVO Agent on HP-UX nodes to receive SNMP traps from Omniback II:

1. Add one of the following lines to the `/opt/OV/bin/OpC/install/opcinfo` file.

    - If an `ovtrapd` process is running add:

      SNMP_SESSION_MODE   TRY_BOTH

    - If no `ovtrapd` process is running add:

      SNMP_SESSION_MODE   NO_TRAPD

2. Configure the SNMP Emanate Agent to send SNMP traps to the local OVO agent by adding the following line to the `/etc/SnmpAgent.d/snmpd.conf` file:

    trap-dest: 127.0.0.1

3. Configure Omniback II to send SNMP traps to the Omniback II Cell Manager host:

    a. Use the Omniback II GUI's **Reporting** context window to setup all Notification events to use:

        - SNMP as delivery method

        - Cell Manager host system as the destination

    b. Add the Cell Manager hostname as trap destination to the `OVdests` file.

    c. Disable filtering of SNMP traps by emptying the `OVfilter` file.

Windows   To enable the OVO Agent on Windows nodes to receive SNMP traps from Omniback II, using the "Distributed Event Interception" method, please follow the procedure for UNIX nodes above.

NOTE	You will require the OpenView Network Node Manager installed on the OmnibackII Cell Manager, since it contains an SNMP Emanate Agent.

However, we recommend that you configure the Windows system to forward it's SNMP traps to the OVO Management Server in the following way:

1. Add the following line to the `\usr\opt\OV\bin\OpC\install\opcinfo` file.

   SNMP_SESSION_MODE   NO_TRAPD

2. Configure the SNMP Service to send traps to the OVO management server.

   trap-dest: <OVO mgmt srv hostname>

3. Configure Omniback II to send SNMP traps to the OVO management server system:

   a. Use the Omniback II GUI's **Reporting** context window to setup all Notification events to use:

      - SNMP as delivery method

      - OVO management server system as the destination

   b. Add the OVO management server hostname as trap destination to the `OVdests` file.

   c. Disable filtering of SNMP traps by emptying the `OVfilter` file.

Please refer to the Omniback II Administrator's Guide for information on how to enable Omniback II's Notification with SNMP and how to edit the `OVdests` and `OVfilter` files.

Omniback II User Configuration

UNIX   For Omniback II on HP-UX nodes, check that the local root user is in the Omniback II's `admin` user group.

Windows   For Omniback II on Windows NT, add the local `HP ITO account` user to Omniback II's `admin` user group.

Miscellaneous Configuration

Windows   For Windows nodes, the system Variable:

                         OBHomeDIR

                         must be set with the Omniback II root path in order for the OVO Agent is able to find
                         the Omniback II logfiles to be monitored.

                         The default location is: `C:\Program Files\OmniBack`

NOTE   After changing a Windows system variable, the system must be restarted.

Program Identification

On UNIX Managed Nodes All Omniback II Integration programs and configuration files
contain an identification string which can be displayed using the UNIX command:

what(1):

The output is of the form:

`HP OpenView Omniback Integration into OVO A.01.00 (<build_date>)`

On Windows Managed Nodes All Omniback II Integration programs and configuration
files contain an identification string which can be displayed by:

1. Right-clicking the `ob_spi_backup.exe` file.

2. Select **Properties** from the popup menu.

3. Select the **Version** tab to display the program identification data.

Patches and Fixes in This Version

There are no patches or fixes included in HP OpenView Omniback II Integration, version A.01.00.

Software Availability in Native Languages

The HP OpenView Omniback II Integration, version A.01.00 software is available in the English language only.