HP OpenView

Guide for Upgrading to OpenView Operations for Windows Version 7.10

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Introduction

This guide provides information and instructions for upgrading to the latest version of OpenView Operations 7.10 for Windows (OVO 7). This guide is intended for existing OpenView Operations 6.x for Windows (OVO 6 also known as VantagePoint for Windows) customers who are upgrading from OVO 6.x to OVO 7.10.

If you have already upgraded from OVO 6.x to OVO 7.0, with our previous release, you should skip to the section in chapter 5 on upgrading from OVO 7.0 to OVO 7.10.

If you still have OVO 6.01, you need to first upgrade to OVO 6.10, following the instructions in the OVO 6.10 documentation, and then follow the upgrade procedures provided in this guide.

If you are running your Management server on Windows NT you will need change it to Windows 2000. This is because OVO 7 is not supported on Windows NT. See chapter 2 for options in moving to Windows 2000.

This guide covers three scenarios for upgrade:

- **In place upgrade** - Upgrade your existing OVO 6 Management server and consoles running on Windows 2000 to the new OVO 7 software.
- **Side-by-side upgrade** - Leave your OVO 6 implementation as is and install OVO 7 on a separate server. Then you can gradually bring systems under management with the new OVO 7 Management server.

- **Upgrade from OVO 7 to OVO 7.10** - If you have already upgraded to OVO 7.0 then you should skip to chapter 5 for instructions on just the steps you need to upgrade from OVO 7.0 to OVO 7.10..

For the first two scenarios, you should read this guide completely before starting the upgrade because it contains important information you need to know and steps you need to take prior to beginning the upgrade.

An upgrade process flow diagram is included at the end of this chapter.

About OVO for Windows

Additional information about HP OpenView Operations for Windows is available as follows:

- The *hp OpenView Integrated Service Assurance for Windows Concepts Guide*, a multi-media product overview, is available on a separate CD included with OVO 7. You can view the CD at any time, but will find the information most helpful before you begin installation.
- The *hp OpenView Operations/Performance for Windows Installation Guide* contains detailed OVO 7 installation information and an overview of how to use other HP OpenView products with OVO 7. This manual comes with OVO 7 in printed hardcopy form and in Adobe Acrobat .pdf format.
- HP OpenView Operations for Windows provides extensive online help with detailed information on using the software.

What You Need to Know Before You Upgrade

Before you upgrade it is important to be aware of certain changes in the OVO 7 product that may impact the upgrade requirements and process.

The following changes/requirements in OVO 7 affect the upgrade:

- Windows NT is no longer a supported platform for the OVO 7 Management server and consoles. There is still an agent for the Windows NT platform.
- There is a new web-based graphical user interface to provide easier access to your management data from anywhere in your enterprise.
- There is now a combined event/performance/discovery agent.
- There is a new common multi-platform performance agent component replacing the *Measurement Data Collector (MDC)*.
- A new reporting and graphing capability is now included in OVO 7.
- Seven policy types are supported in OVO 7. Measurement Data Collector policies and *Application Response Measurement* (ARM) policies are not used in OVO 7.
- The message database will not be retained during the upgrade.
- Some changes have been made to the Smart Plug-ins included with the OVO 7 product. The SPIs provided with OVO 6 do not work with OVO 7, so you will need to upgrade to the SPIs provided with OVO 7, if you are using SPIs.
- The default database has changed from Solid to the Microsoft SQL Server 2000 Desktop Edition (MSDE 2000) database.

Further information on these items is provided in this chapter. Not every new product feature is covered here. The OVO 7 online help provides complete information on product features.

Windows NT No Longer Supported for Management Server or Console

OVO 7 no longer supports running the Management server or consoles on Windows NT. This means if you are currently running the Management server or console on Windows NT, you will need to do one of the following:

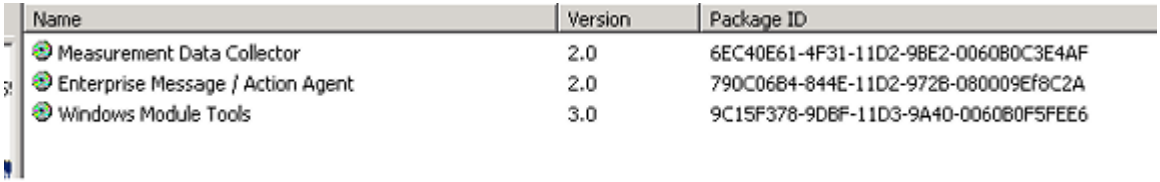
- Change your OVO 6 Management server and console systems from Windows NT to Windows 2000 SP2 prior to doing an in place upgrade from OVO 6 to OVO 7. Note that the console system can also be run on Windows XP.
- Re-install OVO 6 on a Windows 2000 system and then restore your runtime and configuration environment from the current OVO 6 Windows NT system. Then upgrade from OVO 6 to OVO 7 on the Windows 2000 system.
- Side-by-Side Upgrade: Upgrade from your Windows NT OVO 6 Management server to a new Windows 2000 OVO 7 Management server.

See the guidelines in chapter 2 for more information on the Windows NT to Windows 2000 upgrade. See chapter 4 for details on side-by-side upgrade.

Combined Agent

In OVO 6 there were two agents. The Enterprise Message/Action Agent processed events and actions and it was automatically deployed when you brought a node under management and deployed policies. The Measurement Data Collector (MDC) processed performance data and had to be specifically selected and deployed to managed nodes. With OVO 6 you see both agents listed in the package inventory.

Example of OVO 6.10 Package Inventory



Name	Version	Package ID
Measurement Data Collector	2.0	6EC40E61-4F31-11D2-9BE2-0060B0C3E4AF
Enterprise Message / Action Agent	2.0	790C06B4-844E-11D2-972B-080009Ef8C2A
Windows Module Tools	3.0	9C15F378-9DBF-11D3-9A40-0060B0F5FEE6

With OVO 7 there is only one agent. This new OpenView Operations Agent (OVO 7 Agent) combines event, discovery, and performance into a single package. This means there will only be a single deployment package for the OVO 7 Agent.

During the upgrade, on the Management server, the Enterprise Message/ Action Agent 2.0 is renamed to OpenView Operations Agent 2.0. After the server upgrade you will see both the new OpenView Operations Agent 7.11 and the renamed, old OpenView Operations Agent 2.0 in the package inventory

If the MDC was installed on a node before the upgrade, the MDC package will no longer be in the inventory of the node, after upgrade.

Example of OVO 7.10 Package Inventory

Name	Version	Description
ConfigFile policy package for Windows Nodes	1.1	Deployment of ConfigFile policies
ConfigFile policy dummy package for UNIX Nodes	1.1	Deployment of ConfigFile policies
OpenView Operations Agent	7.11	OpenView Operations Agent
OpenView Operations Agent	2.0	Enterprise Message/Action Package

You can take specific steps to prevent the loss of old data before you upgrade a managed node to the OVO 7 Agent. See the detailed instructions in chapter 3 for important steps you can take to save information before uninstalling OVO 6.

Performance Component

The OVO 7 Agent contains an embedded performance component that is a sub-agent. This performance component replaces the *Measurement Data Collector (MDC)* which is no longer used in OVO 7.

Unlike OVO 6, this performance sub-agent is deployed automatically as part of the OVO 7 Agent. It automatically provides collections of performance metrics for alarming, graphing and reporting.

You can view this performance data with the out-of-the-box reports and graph templates provided with OVO 7.

This new performance component provides a subset of the metrics collected by the full OpenView Performance Agent (OVPA, also known as MeasureWare). For additional functionality, such as support for Application Response Measurement (ARM) API data collection, you can use the OpenView Performance Agent since it coexists with the new OVO 7 performance component.

Approximately 30 of the metrics collected by the new performance component are common to most managed platforms, including, HP-UX, Solaris, Linux, AIX, Tru64, and Windows. This allows you to create a single threshold policy that works on all platforms. Additional platform specific metrics are also collected.

You can set alarms based on data collected by the new performance component and respond to the alarms through the Advanced Threshold Monitor.

The new performance component uses its own lightweight database rather than a full Relational Database Management System (RDBMS) as the OVO 6 Measurement Data Collector did. And it does not require Windows Management Instrumentation (WMI) or Microsoft Data Access Components (MDAC) on Windows managed nodes.

Configuration of the performance component is limited (no logfile sizing, no disk space allocation, no local export or extract functions). The collection interval is five minutes and cannot be changed. The data is kept in the data store for up to five weeks. After five weeks of data has been collected, the oldest data is rolled out one week at a time. More advanced features are available with the full OpenView Performance Agent.

If you have configured custom metrics, collections or MDC based threshold policies in OVO 6, these will no longer be usable in their current form in OVO 7. You will need to collect information in OVO 6 on this customization before upgrading. Once the upgrade is complete you can recreate policies in OVO 7. See chapter 3.

The new performance component does not support calculated metrics on the managed node. Calculated metrics may be recreated by using multi-source Measurement Threshold policies and performing the calculations in VBscript or Perl. You may then feed the combined metric into the performance component of the OVO 7 Agent using a command line interface (or COM object if available).

See the OVO 7 online help for more information on how to use the Measurement Threshold Policy editor, and for a list of metrics and definitions.

Reporting and Graphing

OVO 7 includes embedded reporting and performance graphing. You can access Reports and Graphs from the OVO 7 console tree or via the web.

Reporting

In OVO 6, you needed to purchase hp OpenView Reporter 2.0 (Reporter) in order to get reporting functionality.

In OVO 7, basic reporting functionality is included with the product along with numerous pre-defined reports. Smart Plug-ins (SPIs) add additional reports. Reports are automatically scheduled and created every evening.

Note that with this embedded reporting component you cannot configure reports or create your own custom reports. If you need to create your own custom reports, you can install Reporter 3.0. The Reporter product is included in the OVO 7 installation media kit and can be used for 60 days. A License to Use must be purchased to activate Reporter permanently.

As part of the upgrade, if you are currently using Reporter 2.0, you should upgrade to Reporter 3.0. See chapter 3 and 4 for more information on upgrading to Reporter 3.0.

Also if you are using hp OpenView Reporter 2.0 on a server that is different from the OVO Management Server, you can upgrade Reporter to 3.0 and install the SPI Reporter integration packages there as well. See chapter 3 and 4 for more details on integrating Reporter with OVO 7.

The embedded reporting component in OVO 7 can only graph data from the OVO 7 agent. If you want to report on OpenView Performance Agent (OVPA also known as MeasureWare) data, you will need to purchase the full OpenView Reporter product.

Graphing

In OVO 6 there was a performance graphing component. In OVO 7 this has been replaced with a new Java-based graphing component that allows you to select performance data collected by the OVO 7 Agent and view it in pre-defined graphs. You can also design or alter graph definitions with the Custom Graphs feature of the new graphing component. Java Graphs provide an interactive graphical display of some graph types. Smart Plug-ins add additional graph templates.

Graphs and Graph Templates can be used in operator initiated commands in Measurement Threshold policies.

Note that with the embedded graphing component in OVO 7 you can only graph data from the OVO 7 Agent. This also includes graphing Smart Plug-in data collected by the OVO 7 agent.

If you want to graph OpenView Performance Agent (OVPA also known as MeasureWare) data, you will need to purchase the OpenView Performance Manager 4.0 for Windows product.

Changes in Policies

During the upgrade, only policies and packages for the seven basic policy types are migrated for you from OVO 6 to OVO 7.

The seven policy types that will be migrated to OVO 7 are:

1. Open Message Interface (opcmsg)
2. Windows Management Interface (WMI)
3. Windows Event Log (NT eventlog)
4. Scheduled Command (Scheduled Task)
5. SNMP Interceptor
6. Logfile Entry
7. Measurement Threshold - Note that Advanced Threshold policies containing MDC (Measurement Data Collector) as a data source are preserved during upgrade but are not supported in OVO 7. This allows you to review the old policies, in order to manually recreate them using the embedded performance component as a data source.

The upgrade will automatically move data related to the seven basic policy types from the old database to the new OVO 7 database and automatically export supported OVO 6 policy files into the OVO 7 policy directory.

ARM policy type, Measurement Data Collector package, Advanced Threshold policies containing MDC as the data source, and VantagePoint Reporter default policies are not used in OVO 7. The SPI packages and SPI Config policy types are replaced with new versions in OVO 7.

If you need or want to use information from these policies to recreate new policies in OVO 7, you must go through some manual steps to gather information on these policies in OVO 6 before upgrading to OVO 7. See chapter 3 for more information.

Messages

The historical message database is not preserved in the upgrade.

Core Smart Plug-ins Included with OVO 7

In OVO 6, basic operating system monitoring was embedded as part of OVO and further extended with the Windows+ SPI. With OVO 7 this functionality has been bundled into several Core Smart Plug-Ins that are included with the product at no additional charge. The SPI for Windows OS in OVO 7 also encompasses functionality from some OVO 6 SPIs as described below.

Note that the SPIs provided with OVO 6 do not work with OVO 7, so you will need to upgrade to the SPIs provided with OVO 7.

The following three Core SMART Plug-ins are included in OVO 7:

- Smart Plug-In for Windows Operating Systems.

  The *SPI for Windows OS* monitors, controls and reports on the health of the complete Windows enterprise. It provides pre-configured policies, reports, and tools for managing the Windows 2000 and Windows NT operating environments, and the most common Microsoft applications on Windows server systems.

  The SPI for Windows OS encompasses most of the functionality of the following: The Winmodule and Win+ SPI from OVO 6, the Microsoft application policies from the hp OpenView Internet Services Passive Monitoring Component version 3.5, and additional policies to duplicate policy coverage found in the ManageX product and for monitoring Novell Netware.

  Policy names have been changed to add the prefix OSSPI. See chapter 5 for a mapping of policy names from the previous version to the ones included with OVO 7.

- Smart Plug-In for Unix Operating Systems.

  The *SPI for UNIX OS* monitors the availability and performance of typical UNIX-based operating systems. The SPI for UNIX OS provides pre-configured monitoring solutions for the most important types of UNIX operating systems. Where pre-configuration is either not possible or not necessary, this SPI can easily be adapted to suit specific needs. The SPI for UNIX OS integrates seamlessly with OVO 7. The integration provides significant extensions and improvements to existing OVO policies, tools and user roles. It also introduces a number of important new policies and a

powerful automatic service-discovery feature to help you monitor and manage your local and distributed file systems and processes.

See chapter 5 for a mapping of policy names from the previous version to the ones included with OVO 7.

- Smart Plug-In for Web Servers.

  Out-of-the-box, OVO 7 provides a number of pre-configured policies for monitoring the most common Web servers. Although support for the Stronghold Web server has not been carried forward in OVO 7, new features such as Discovery are now available for Apache and IPlanet Web Servers.

Note that you will need to follow a series of steps to prepare your OVO 6 based SPIs for upgrading to the new version of the SPIs in OVO 7. Refer to chapter 3 for more information on undeploying the SPIs prior to upgrading. Refer to the individual SPI documentation for important information on upgrading.

Other Smart Plug-Ins

The following SPIs are also available in the OVO 7 installation media kit.

Note that the SPIs provided with OVO 6 do not work with OVO 7, so you will need to upgrade to the SPIs provided with OVO 7.

- SPI for Microsoft .NET Enterprise Servers.

  This new SPI provides monitoring capabilities for IT environments using Microsoft .NET Enterprise Servers. Microsoft .NET Enterprise Server coverage includes: Application Center, BizTalk, Commerce Server, Host Integration Server, Internet Security and Acceleration Servers, and Mobile Information Servers.

- SPI for MS Exchange.

  This SPI has been updated and includes the following changes, also see chapter 5 for a mapping of policy names from the previous version to the ones included with OVO 7.

- The Exchange Topology Service Map replaces the Exchange Organization view.
- There is no Exchange Topology service map discovery tool. This is now handled in a policy.
- The Exchange Messaging View no longer requires a log-in dialog. It depends on the discovery mentioned above.
- The Quick Start Exchange policies are divided into two groups, one for Exchange 5.5 and the other for Exchange 2000. Policy names have changed as a result.
- All Quick Start policies take complete advantage of the OVO 7 technologies. For example metric collection can now be handled in one Measurement Threshold policy instead of two policies.
- All messages generated by Exchange policies are sent to an appropriate service.

- SPIs for MS SQL Server, Informix, Oracle and Sybase.

  The Database SPIs have been updated and include the following changes that impact the upgrade process:

  The ConfigFile policy type is no longer used for the Database SPI configuration. Configuration changes are made using a tool called the Configuration Manager. Any configuration information on UNIX managed nodes will be retained. However, configuration information on Windows (NT and 2000) managed nodes will need to be reentered because the location of the files has changed.

  NOTE: In the Database SPIs, User Defined Metrics are still configured using the ConfigFile policy. DO NOT delete these policies.

- SPI for mySAP.com.

Note that you will need to follow a series of steps to prepare your OVO 6 based SPIs for upgrading to the new SPI templates in OVO 7. Refer to chapter 3 for more information on undeploying the SPIs prior to upgrading. Refer to chapter 5 for SPI policy comparison tables detailing changes when upgrading. Refer to the individual SPI documentation for important information on upgrading.

MSDE Database

Microsoft SQL Server 2000 Desktop Edition (MSDE 2000) is the database used in OVO 7. The migration from the embedded database instances used in OVO 6 is handled automatically for you during the upgrade.

You can upgrade the MSDE 2000 database to SQL Server 2000 for larger data requirements.

If you are installing OVO 7 on a system that has SQL Server 2000 Service Pack 1 installed, the OVO 7 installation will fail since OVO 7 requires Service Pack 2. See the OVO 7 release notes for how to resolve this problem.

Managed Nodes

After the Management server upgrade and prior to upgrading managed nodes to the new OVO 7 Agent, you can still extract data from the old Measurement Data Collector (MDC). And if the node still has an old OpenView Operations Agent version 2.0 (check the inventory) you can still receive messages from the node and execute tools. This is so you can continue to manage nodes while upgrading groups of nodes over time.

However, as soon as you try to edit or deploy policies to a node you will be prompted to upgrade the agent to the newest OpenView Operations Agent version 7.11.

IMPORTANT NOTE: when you upgrade a managed node to the new OVO 7 Agent you will lose the performance data stored in the MDC.

Use the OVO 6 Measurement Data Collector's (MDC) extract capability to archive data or use hp OpenView Reporter to generate reports for your data ***before*** you upgrade the node to the OVO 7 Agent in order to retain a record of the historical performance data. See chapter 3 for more information.

Console

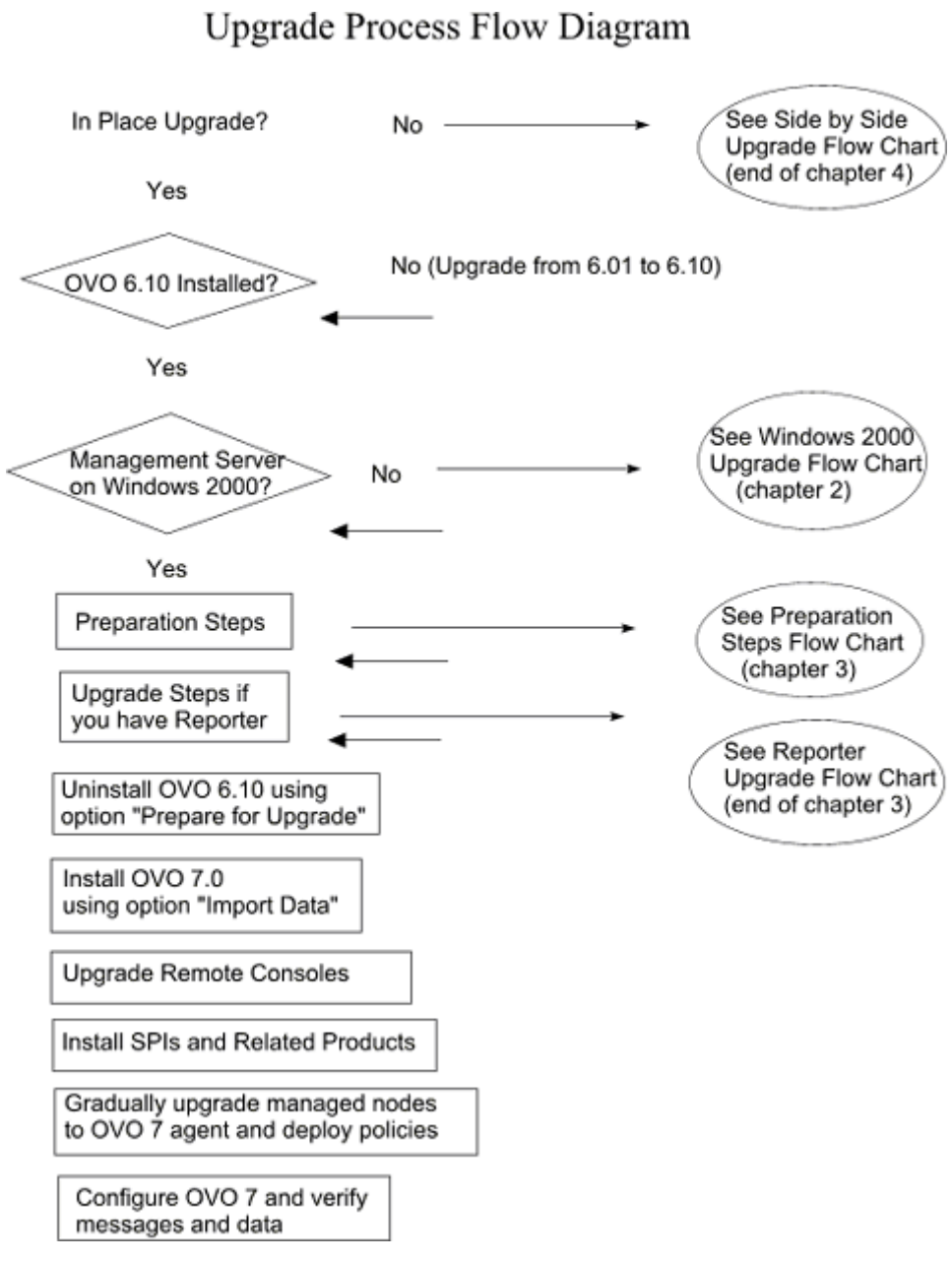
In OVO 6, when you customize a console, a .msc file maintains your settings. These .msc files are configuration files for the Microsoft Management Console (MMC). If you have created .msc files, they are not compatible with OVO 7. You will need to recreate the customization of the consoles in OVO 7.

Upgrade Process Overview

A flow diagram of the upgrade process is shown on the following page. This process flow can be described as follows:

1. Determine if you are doing an in place upgrade. If not, refer to the flow diagram for the side-by-side upgrade provided at the end of chapter 4.
   - **In place upgrade** - Upgrade your existing OVO 6 Management server and consoles running on Windows 2000 to the new OVO 7 software.
   - **Side-by-side upgrade** - Leave your OVO 6 implementation as is and install OVO 7 on a separate server. Then you can gradually bring systems under management with the OVO 7 Management server.
2. Determine if you need to upgrade to OVO 6.10.
3. Be sure you have your Windows 2000 system ready for upgrade. If you are running Windows NT, you need to upgrade to Windows 2000. Refer to the flow diagram for OS upgrade provided in chapter 2.
4. Gather information in OVO 6 and prepare the OVO 6 environment for upgrade. See the flow diagram for preparing to upgrade in chapter 3.
5. Prepare Reporter 2.0 for upgrade. See the flow diagram at the end of chapter 3.
6. On your OVO 6 server, uninstall to prepare for upgrade.
7. Install OVO 7 on the server. Check the *hp OpenView Operations/ Performance for Windows Installation Guide*. Prepare any prerequisites and follow the installation instructions.
8. Upgrade the consoles.
9. Upgrade to Reporter 3.0 if you are using Reporter. You may upgrade Reporter anytime after Step 5.
10. Install SPIs from the OVO 7 installation media.
11. Gradually upgrade agent packages on managed nodes. Deploy policies.
12. Configure OVO 7 and verify messages and data. Optional: Re-create any custom policies as needed. Optional: Set up Auto Deployment if desired.

Upgrade from OVO 7.0 to 7.10 - Skip to chapter 5 for steps.


Upgrade Process Flow Diagram
In Place Upgrade?
No
See Side by Side Upgrade Flow Chart (end of chapter 4)
Yes
OVO 6.10 Installed?
No (Upgrade from 6.01 to 6.10)
Yes
Management Server on Windows 2000?
No
See Windows 2000 Upgrade Flow Chart (chapter 2)
Yes
Preparation Steps
See Preparation Steps Flow Chart (chapter 3)
Upgrade Steps if you have Reporter
See Reporter Upgrade Flow Chart (end of chapter 3)
Uninstall OVO 6.10 using option "Prepare for Upgrade"
Install OVO 7.0 using option "Import Data"
Upgrade Remote Consoles
Install SPIs and Related Products
Gradually upgrade managed nodes to OVO 7 agent and deploy policies
Configure OVO 7 and verify messages and data

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Moving from Windows NT to Windows 2000

OVO 7 does not support Windows NT for the Management server or the consoles. Note that once OVO 7 is installed you may choose to use the new Web console on your Windows NT 4 console systems, although the Web console does not include the full console functionality.

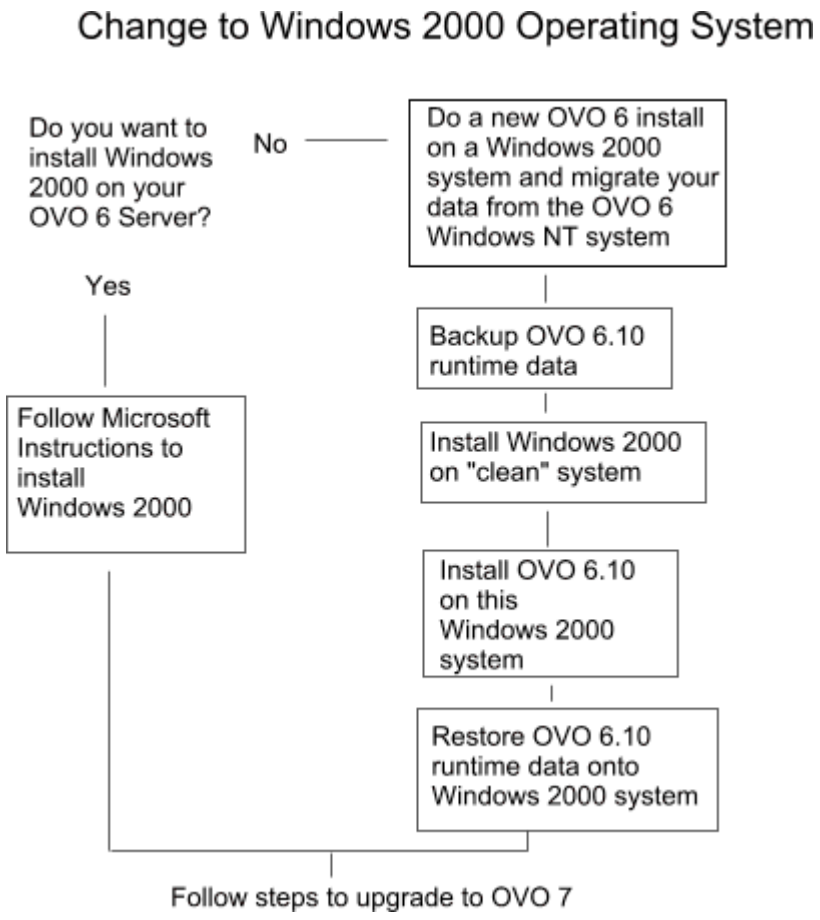
If your OVO 6.10 Management server is already running on Windows 2000, proceed to chapter 3 to prepare for upgrading to OVO 7.

If you are running Windows NT on your Management server you will need to change to Windows 2000. You can also change your console systems to Windows 2000 or Windows XP or you can just install OVO 7 consoles on new Windows 2000 or Windows XP systems.

To change to a Windows 2000 Management server do one of the following:

- Install the Windows 2000 operating system on the OVO 6 Management server system.
- Use the OVO 6.10 installation media to install the OVO 6.10 software on a "clean" Windows 2000 system and then restore your runtime and configuration data from the current OVO 6.10 Windows NT system.
- Side-by-side upgrade: Upgrade from your Windows NT OVO 6 Management server to a new Windows 2000 OVO 7 Management server. See the instructions at the end of chapter 4.

Once OVO 6.10 is running on Windows 2000, see chapter 3 to prepare for upgrading to OVO 7. See the flow diagram that follows for an overview of the process involved in a Windows 2000 operating system upgrade.



Install the Windows 2000 Operating System

To upgrade the operating system on your OVO 6.10 Management server or console systems from Windows NT 4 to Windows 2000 please refer to Microsoft documentation. Note that Windows 2000 Service Pack 2 is required for OVO 7. Note you can also run the console on a Windows XP system.

See the section below for a solution to an issue you may encounter in upgrading to Windows 2000. Also note that some applications installed on the system may need to be uninstalled prior to upgrading the operating system, for example PC Anywhere. You will be prompted by messages.

FQDN on Windows 2000

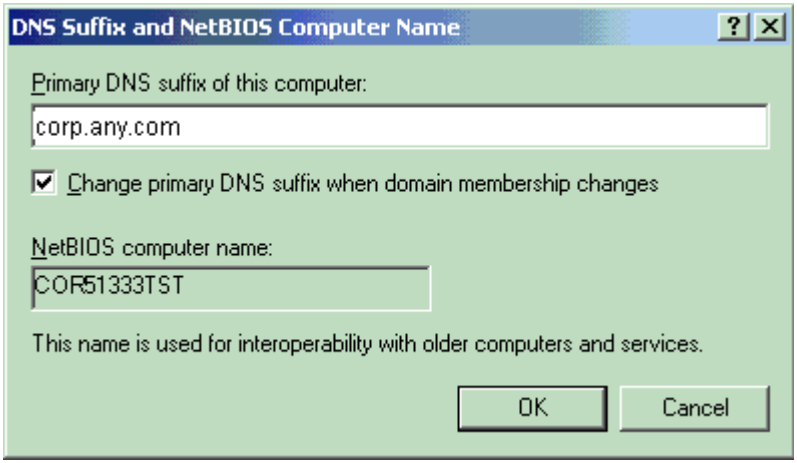
There is a difference between Windows NT 4 and Windows 2000 for `gethost` *FQDN* (Fully Qualified Domain Name). On a Windows 2000 system with a default installation, the system call `gethostbyname` will return the short hostname. The same call on a Windows NT 4 system will return the FQDN. This behavior can affect applications written to support Windows NT 4 and Windows 2000 with the same binaries.

To get the FQDN returned on Windows 2000 systems, the **Primary DNS suffix** can be set. After this is set and the system is rebooted, the `gethostbyname` call will give the same results on Windows NT 4 and Windows 2000.

To set the Primary DNS suffix, take the following steps:

1. Right-click the **My Computer** icon on the Windows 2000 desktop and select **Properties**.
2. Select the **Network Identification** Tab.
3. Select the **Properties** button to open the **Identification Changes** dialog. See the figure below for an example.
4. Select the **More** button in the Identification Changes dialog.
5. Add the correct DNS suffix in the **Primary DNS suffix of this computer** field.
6. Confirm your changes by pressing **OK**.

7 Reboot.



Reinstall OVO 6 on Windows 2000 and Migrate Data

You might prefer to have a new *clean* installation of Windows 2000 for your OVO 6 Management server, rather than changing the operating system to Windows 2000 with installed applications.

An overview of the process of doing a new installation of OVO 6 on a Windows 2000 system and migrating your existing OVO 6 data from the Windows NT system is shown below and details for each task follow. Note that these steps do not cover other OpenView products, just OVO and SPIs.

This is NOT an OVO 7 upgrade. You are migrating data and configuration from an OVO 6 system to a new Windows 2000 OVO 6 system. See chapter 3 and 4 for how to do an in place upgrade to OVO 7. Or see the steps at the end of chapter 4 for how to do a side-by-side upgrade from your Windows NT Management server to a new OVO 7 Windows 2000 Management server.

- Task 1: On the Windows NT OVO 6 Management server, stop all OVO 6 processes and services.
- Task 2: Backup all OVO 6 runtime and configuration data.
- Task 3: Set up a "clean" Windows 2000 system with the same name/ip-address as the Windows NT 4 server. Set up OVO 6 prerequisites.
- Task 4: On the Windows 2000 system, re-install OVO 6.10 from the original installation media.
- Task 5: Restore OVO 6 runtime and configuration data from the Windows NT Management server to the new Windows 2000 Management server.
- Task 6: Proceed with the documented OVO 6 to 7 upgrade.

Preparation:

Make a backup logical disk, share or tape available.

Have the media ready for the following:

- Windows 2000 server
- Windows 2000 service packs, Service Pack 2 is required for OVO 7
- OVO 6.10 (also known as VantagePoint for Windows) installation media

The process should take approximately 1-2 hours depending on the performance and time to reboot of the Management server system. During the process, the monitoring of the agent on the Management server is unavailable, however agents on managed nodes will buffer all events and forward them to the Management server once the process is completed.

Task 1: Stop Processes

1. Log off all OVO 6 consoles.
2. On the OVO 6.10 Windows NT Management server, stop all OVO 6 services and the WMI service from **Control Panel -> Services**.
   - OvDnsDiscovery
   - OvEpMessageActionServer
   - OvEpStatusEngine
   - OVMSDB
   - OvMsmAccessManager
   - OVSTODB
   - Windows Management Instrumentation

Task 2: Make Backup

1. Create directories to be used to backup your runtime and configuration data. Create a directory structure in a backup directory or on a share for example., `D:\vpw-backup`. In this directory you need to create the subdirectories listed below. It is necessary to create a subdirectory structure in the backup directory because in `\Store` and `\Data` the files have the same names.

   ```
   \Policies
   \Store
   \Data
   \PPP
   ```

2. From the OVO 6 Windows NT Management server, backup all OVO 6 files in `%VPW%\Policies`. The default installation path for the `%VPW%` value is `\Program Files\Hewlett-Packard\OpenView\VantagePoint`.
3. Backup the OVO 6 files `solid.db` and all `solXXXXXX.log` files from `%VPW%\store` directory.
4. Backup the OVO 6 files `solid.db` and all `solXXXXXX.log` files from `%VPW%\data` directory.
5. Backup the OVO 6 license file `LicFile.txt` from `\Program Files\Common Files\Hewlett-Packard\PPP`.

Task 3: Install Windows 2000

1. Install and set up the Windows 2000 system where you plan to re-install OVO 6.
2. Change the Primary DNS prefix (see details "FQDN on Windows 2000" on page 27).
3. Install SNMP Service (from C**ontrol Panel > Add/Remove Windows components > Management and Monitoring Tools > SNMP (Simple Network Management Protocol**).
4. Install Windows 2000 Service Pack 2. Note that SP2 is required for OVO 7.
5. Install and configure any other OVO 6 prerequisites.

Task 4: Reinstall OVO 6.10 on the Windows 2000 system

1. Reinstall OVO 6.10 including any SPIs previously installed, from the original media, onto the new Windows 2000 system.
2. On the Windows 2000 Management server, launch the OVO console (as a user with OVO administrator privileges).
3. Restore the license file as follows:
   a. Select **Get license** in the OVO Console.
   b. In the HP Auto-Pass screen select **No Connection to Internet**.
   c. Then select **Import File**.
   d. Import the previously backed up file `LicFile.txt`.
   e. Click the **View File Contents** button.
   f. Select all licenses to be imported by highlighting them.
   g. Click the **Import** button.
   h. The import successful message will display when completed.
4. Rename the Management server node to prepare for restoring the data from backup:
   a. On the OVO Windows 2000 server, in the console, select the node (Management Server).
   b. Right-click **All Tasks > Uninstall All**.

c Press **Yes** on the confirmation dialog.

d Open the **Node Configuration Editor**.

e Select the Management Server node and right-click to select **Properties**.

f Change the primary nodename to something like "Remove" (or any other string which does not represent a valid node name).

g Acknowledge the message about the system type not being discovered.

h Select the **General** tab.

i Change the Display Name to something like "Remove".

j Press **Ok**.

k Right-click the changed node and select **Delete**.

l Acknowledge the confirmation message.

m Close the Node Configuration Editor and exit the console.

Task 5: Restore Data

1 On the Windows 2000 Management server, stop all OVO 6 services and the WMI service (same as task 1) from **Control Panel -> Services**.

- OvDnsDiscovery
- OvEpMessageActionServer
- OvEpStatusEngine
- OVMSDB
- OvMsmAccessManager
- OVSTODB
- Windows Management Instrumentation

2 Restore the files obtained from the backup directory you set up in Task 2 into the following directories - replacing the existing files under `\Program Files\Hewlett-Packard\OpenView\VantagePoint\`.

```
\Policies
\Store
\Data
\PPP
```

3 Restart the services you stopped above.

Task 6: Proceed with upgrade to OVO 7

You are now ready to prepare for upgrade to OVO 7. See chapter 3 and 4. Note that you will have to install the OVO 7 prerequisites on this Windows 2000 system to prepare for upgrade. Software such as Microsoft Internet Information Services (IIS), WMI and any recent Windows patches will be required.

3

Preparing for Upgrade

This chapter explains what you need to know and do before upgrading.

If you have already upgraded from OVO 6.x to OVO 7.0, with our previous release, you should skip to the section in chapter 5 on upgrading from OVO 7.0 to OVO 7.10.

Requirements for Upgrade

You will need the following to complete the upgrade:

- OVO 7.10 installation media. Installation media for SPIs and hp OpenView Reporter 3.0, if you are using these.
- Windows 2000 Server system and all prerequisites for OVO 7 set up on the system. Note that Windows NT is no longer supported for the management server. See chapter 2 for some options in migrating to Windows 2000. See the *hp OpenView Operations/Performance for Windows Installation Guide* for detailed requirements and steps for installation. Be sure all OVO 7 prerequisites are installed and running.
- Working knowledge of OVO.
- It is recommended that you back up your OVO 6 systems before beginning the upgrade.

Preparation Before you Upgrade

Before you uninstall OVO 6, you need to gather necessary information and prepare the environment for upgrade. You may not have to do some of the steps documented, depending on what components you have implemented in your environment and what you have customized.

When you uninstall OVO 6 to prepare for upgrade,

- some information will be lost, so you may want to archive it.
- some policies will no longer be usable in OVO 7 so you may want to document any information you would need to recreate similar policies in OVO 7.
- some steps need to be taken to prepare the environment.

See the flow diagram that follows for an overview of the preparation required before you uninstall OVO 6 to prepare for upgrade. You should do this preparation if you are doing an in place upgrade.

For a *side-by-side* upgrade, the OVO 6 system remains as is, so you don't need to worry about information being lost of duplicated. So for this type of upgrade you can just archive the Measurement Data Collector (MDC) data and look at MDC based policies or other customization you may want to recreate in OVO 7. See "Side-by-Side Upgrade" beginning on page 70 for instructions on doing a side-by-side upgrade.

The preparation steps are as follows:

1. Create an Inventory Report of all policies and packages deployed.
2. If using the Measurement Data Collector:
   a. Archive performance data using OVExtract or hp OpenView Reporter.
   b. Inspect custom MDC policies using the MDC tool provided with OVO 7 and review custom policies in the Policy Editor.
3. If using Smart Plug-ins:
   a. Uninstall SPI deployment packages (and policies) from the Management server and managed nodes.

b Be sure SPI tools are deleted.

c Gather information from SPI configuration policies.

d Uninstall SPIs not used in OVO 7.

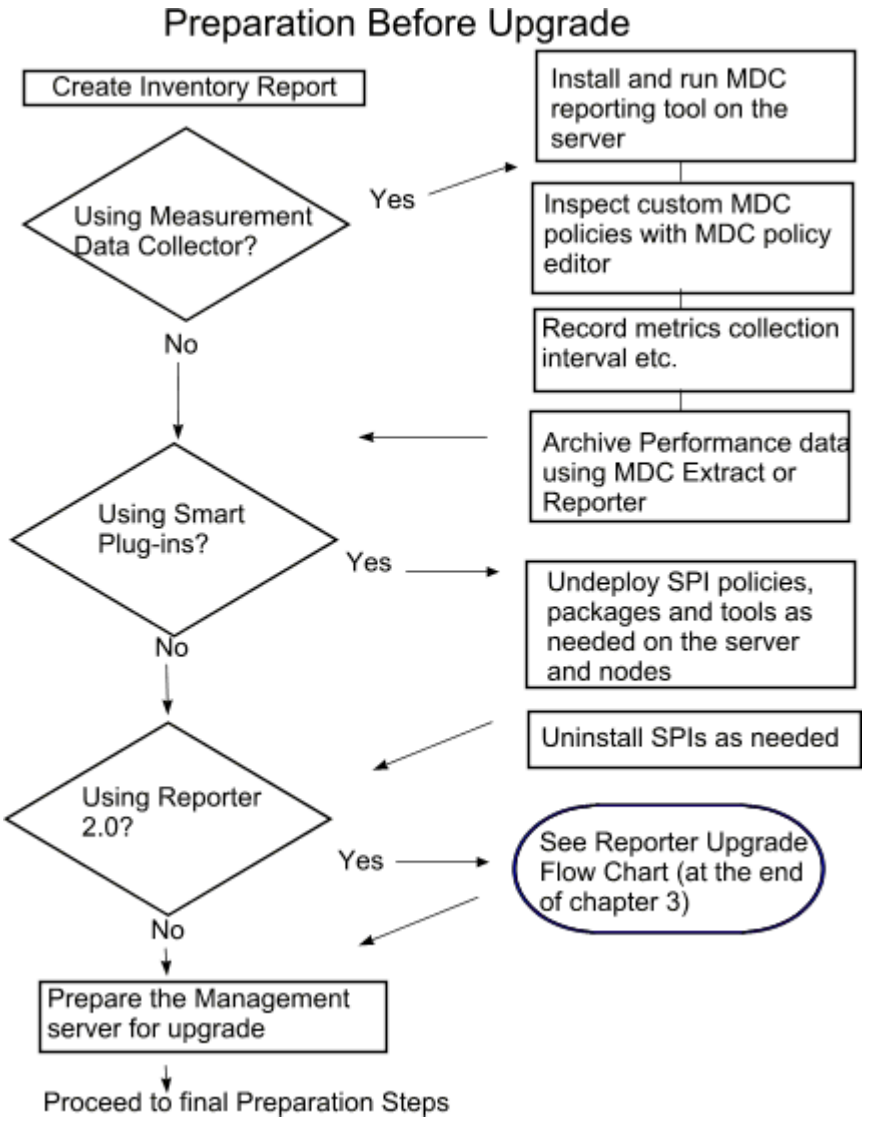
4 If using Reporter with SPIs:

a In Reporter's Installed Packages dialog, remove the SPI reporter packages.

b Be sure the SPI reporter packages are uninstalled.

5 Prepare the Management server for upgrade (including installing the VPW_00023 patch and preparing the Self Management and Windows modules).

6 Save any information in a location that won't be overwritten at upgrade. Shut down all local and remote consoles.


Preparation Before Upgrade
Create Inventory Report
Using Measurement Data Collector?
Yes
Install and run MDC reporting tool on the server
Inspect custom MDC policies with MDC policy editor
Record metrics collection interval etc.
No
Archive Performance data using MDC Extract or Reporter
Using Smart Plug-ins?
Yes
Undeploy SPI policies, packages and tools as needed on the server and nodes
No
Uninstall SPIs as needed
Using Reporter 2.0?
Yes
See Reporter Upgrade Flow Chart (at the end of chapter 3)
No
Prepare the Management server for upgrade
Proceed to final Preparation Steps

Task 1: Create Inventory Report

Create a Policy (and Package) Inventory Report so you will know what policies and packages are deployed onto which managed nodes. Print out the list and save the output (note the URL). This should also tell you where Smart Plug-ins are deployed.

Task 2: If Using the Measurement Data Collector

If you have deployed the *Measurement Data Collector* (MDC) then there is currently collected performance data on your managed nodes. When you upgrade these managed nodes to the new OVO 7 agent, this performance data will be removed. Note that the data is only removed when the node is upgraded to the OVO 7 agent, not when you upgrade the server to OVO 7. This allows you to take some time upgrading a number of nodes at a time.

To Save MDC Performance Data

If you want to save this performance data, you must do one of the following prior to uninstalling OVO 6.10 to prepare for upgrade:

- Use OVO 6's MDC OVExtract program to archive the performance data on each node.
- Use the hp OpenView Reporter 2.0 product, if you have it, to gather the performance data and generate a report you can save.

OVExtract

Go to each managed node and run `OVExtract.exe` to archive the performance data. This is a command line program located on the managed nodes in the following directory, `C:\%SystemRoot%\Hewlett-Packard\OVEnterprise\Agent\NgSB\{15EoA611-B4B0-11D2-B1D7-00105A991C93}`. Be sure to save the data in a directory that won't be overwritten during upgrade. See the OVO online help for how to use `OVExtract.exe`.

To Save OVO 6 Performance Data in Reporter

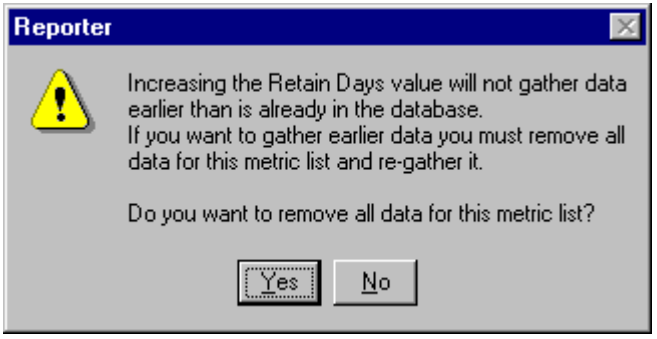
If you have hp OpenView Reporter 2.0 installed you can use it to collect the MDC performance data.

The following metric lists store the data gathered from OVO 6 managed nodes in the Reporter database. The default data storage time for these metric lists is 7 days. To save the OVO 6 data for longer than 7 days in Reporter, you can configure the following metric lists within Reporter.

VPR_ARMTRANSACTION
VPR_MEMORY
VPR_NETWORK
VPR_NETWORKINTERFACE
VPR_PHYSICAKDISK
VPR_PROCESSOR
VPR_SYSTEM

You have 2 choices:

1 Edit each of these metric lists and change the "retain days" to the number of days that you want to keep. When you change this field, you will be prompted to let Reporter remove all the data for this metric list and re-gather all that it can for the time period you have selected. If you respond **No**, then it will append new data, one day at a time until the metric lists grow past the number of retain days that you defined. A **Yes** response will fill up the metric list with the first gather (depending on how much data is on the managed node). See the figure below for an example.



2 Create a new metric list based on the OVO 6 data. Set the number of "retain days" to the amount you want to save. Remember to assign the new metric list to the systems you want to gather data from. Please refer to Reporter online help, *Working With Metric Lists*, for details on how to do this.

Note: every day that Reporter runs, it will clean out the data that is older than the number of "retain days" that you have chosen. If you want to

keep all this data, then you should use your database tools to archive it outside of the Reporter database. Another way is to set the number of "retain days" to a number way beyond the number of days you want to keep.

3 If you want to save the reports generated by Reporter, you can save a copy of the Webpages directory `<reporter-data-directory>\webpages` to a location where it won't be rewritten, before upgrading to Reporter 3.0 or OVO 7.

To Gather Information on MDC Based Policies

The Measurement Data Collector (MDC) is replace by the new performance component in the OVO 7 agent. If you have modified Measurement Data Collector (MDC) policies, or SPI Config policies based on MDC metrics or have created custom policies based on the MDC and you want to save information about these policies to recreate them in OVO 7, then you should gather information on them before uninstalling OVO 6.

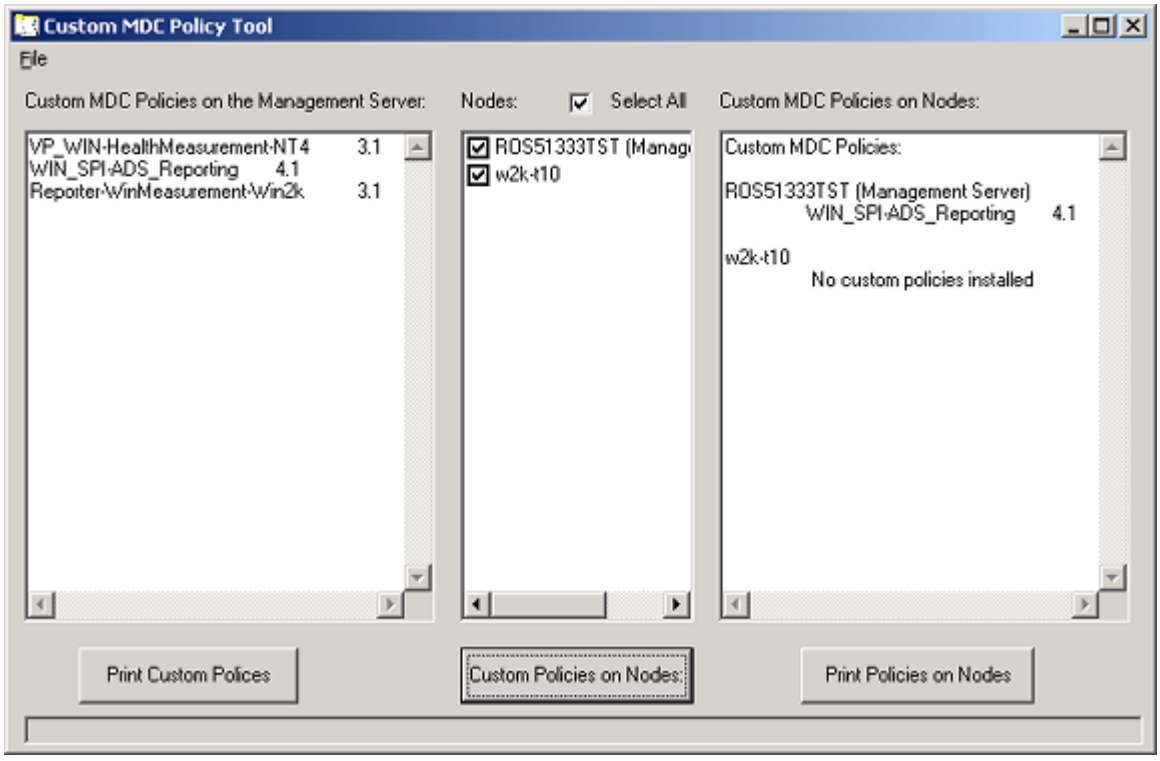
First identify any custom MDC based policies. Modified policies would have a higher version number than the out-of-the-box policies. Some of the default policy versions are as follows:

Reporter-ARMMeasurement Version 3.0
Reporter-WinMeasurement-NT4 Version 3.0
Reporter-WinMeasurement-W2K Version 3.0
VP_WIN-BaseMeasurementTemplate-NT4 Version 3.0
VP_WIN-BaseMeasurementTemplate-Win2K Version 3.0
VP_WIN-DiagnosticMeasurement-NT4 Version 3.0
VP_WIN-DiagnosticMeasurement-Win2K Version 3.0
VP_WIN-HealthMeasurement-NT4 Version 3.0
VP_WIN-HealthMeasurement-Win2K Version 3.0
VP_WIN-ARMBaseMeasurementTemplate Version 3.0
VP_WIN-ARMTransactionMeasurement Version 3.0

You can use the **MDC Policy Tool** *provided with OVO 7* to identify custom MDC policies and indicate the nodes where they are deployed.

MDC Tool

Run the MDC Policy Tool, which is a tool provided with OVO 7. You can install it from the `\Disk1\VantagePoint MDC Reporting Tool` directory on Disk 1 of the OVO 7 installation media by selecting `VantagePoint MDC Policy Tool.exe`. See the example below.



The MDC Policy Tool identifies any custom MDC based policies on the server and on any managed node. You can use this information to look up each custom MDC based policy in the Policy Editor and document the content of any of the custom MDC polices that you may want to recreate in OVO 7.

Note that performance data will automatically be collected via the OVO 7 Agent and out of the box reports and graphs of this data are included in OVO 7. So the MDC can be automatically replaced with the OVO 7 Agent and out of the box graphs and reports. It is only if you have custom MDC based policies that you want to recreate that you would need to collect this information before upgrading.

You can record the following kinds of information:

- Metrics name, version, comments
- Perflib object, counter and instance collected
- Collection information, logging interval
- Calculated metrics (including the formula)

Task 3: If Using Smart Plug-ins

If you have installed Smart Plug-ins (SPIs) with OVO 6 note that they will not work with OVO 7, so you will need to upgrade to the SPIs provided with OVO 7. Prior to upgrade, you need to prepare the SPIs as follows:

1. For any SPI packages and policies that have been deployed on the Management server, select to **Uninstall from** the Management server or **Delete from server**. For example, be sure to remove all Exchange SPI policies, version 1.0.
2. For any SPI deployment packages that have been deployed to managed nodes, select **Uninstall from** all the managed nodes.
3. Be sure all SPI tools have been deleted from the OVO 6 server.
4. The OVO 6 SPI configuration policy type is not migrated and is not compatible with the OVO 7 configuration policies. So for any SPIs using the configuration policy type for Windows nodes, open each policy and save the information in another document. This information can be used when reconfiguring the SPI after upgrade. Note that the new Database SPIs provide a Configuration Manager tool in the OVO 7 version of the SPI.
5. De-Install any of the following SPIs, if present, because they will not be needed in OVO 7:

   WIN+ SPI Reporter:

a Use Add/Remove Programs from the Control Panel. Select **HP OpenView VantagePoint Windows+ SPI Reports**.

b Click the **Change/Remove** button.

c Click **Yes**.

VPIS Passive Monitoring Component:

a Use Add/Remove Programs from the Control Panel. Select **HP OV VP Internet Services PMC A.03.50**.

b Click the **Change/Remove** button.

c Click **Yes**.

d Open the OVO 6 console to make sure the policy group **Internet Services** and the tools group **Internet Services** are removed. If not, please delete those.

e Open the service configuration editor and delete **Internet Services** under **Applications**.

f Check for policies beginning with **IS** under each of the folders in **Policy Management >Policies grouped by type**. If there are any, un-install these policies from the managed nodes and delete them from the server.

Task 4: If Using Reporter 2.0

OVO 6 required the hp OpenView Reporter 2.0 (Reporter) product in order to do reporting. OVO 7 includes an embedded reporting component shared by the full Reporter product.

If you have Reporter 2.0 installed, some, but not all, of the reporting components will be updated when you install OVO 7. You must upgrade to Reporter 3.0 to completely update the set of Reporter files. For example, Reporter 2.0 gathers data from the OVO 6 agent (MDC), Reporter 3.0 gathers data from the new OVO 7 agent.

If you have Reporter 2.0 installed on the same system as OVO 6, you must upgrade to hp OpenView Reporter version 3.0. You can upgrade to Reporter 3.0 either before or after you upgrade to OVO 7 or you complete the first part of the upgrade, that is, to uninstall OVO 6 to prepare for upgrade and then install Reporter 3.0 before completing the upgrade by installing OVO 7.

OVO 7 will be installed into the existing Reporter directory.

When you upgrade to Reporter 3.0, metric lists and tables for the OVO 6 agent (MDC) are still maintained in the Reporter database, preventing data loss for those continuing to collect data with the OVO 6 agent. The VPW System Group, created to contain systems with the OVO 6 agent, will not be deleted and reports will still be assigned to the group, if it exists.

Reports that previously supported combined data from OpenView Performance Agent (MWA) and the OVO 6 agent, or MWA exclusively, in Reporter 3.0 support OpenView Performance Agent and OVO 7 Agent. Report templates capable of supporting OpenView Performance Agent and OVO 6 agent are not deleted from Reporter's report templates directory, but they are not used by Reporter 3.0.

Reporter with SPIs

If you have Reporter 2.0 installed on the same system as OVO and you are using SPIs, then you need to do the following before upgrading to Reporter 3.0.

- Remove the SPI report packages from Reporter's "Installed Packages".
- Be sure the SPI report packages have been uninstalled.

If you have Reporter 2.0 installed on a different system from OVO and you are using SPIs, then you may want to do the following at some point in order get ready to integrate with OVO 7:

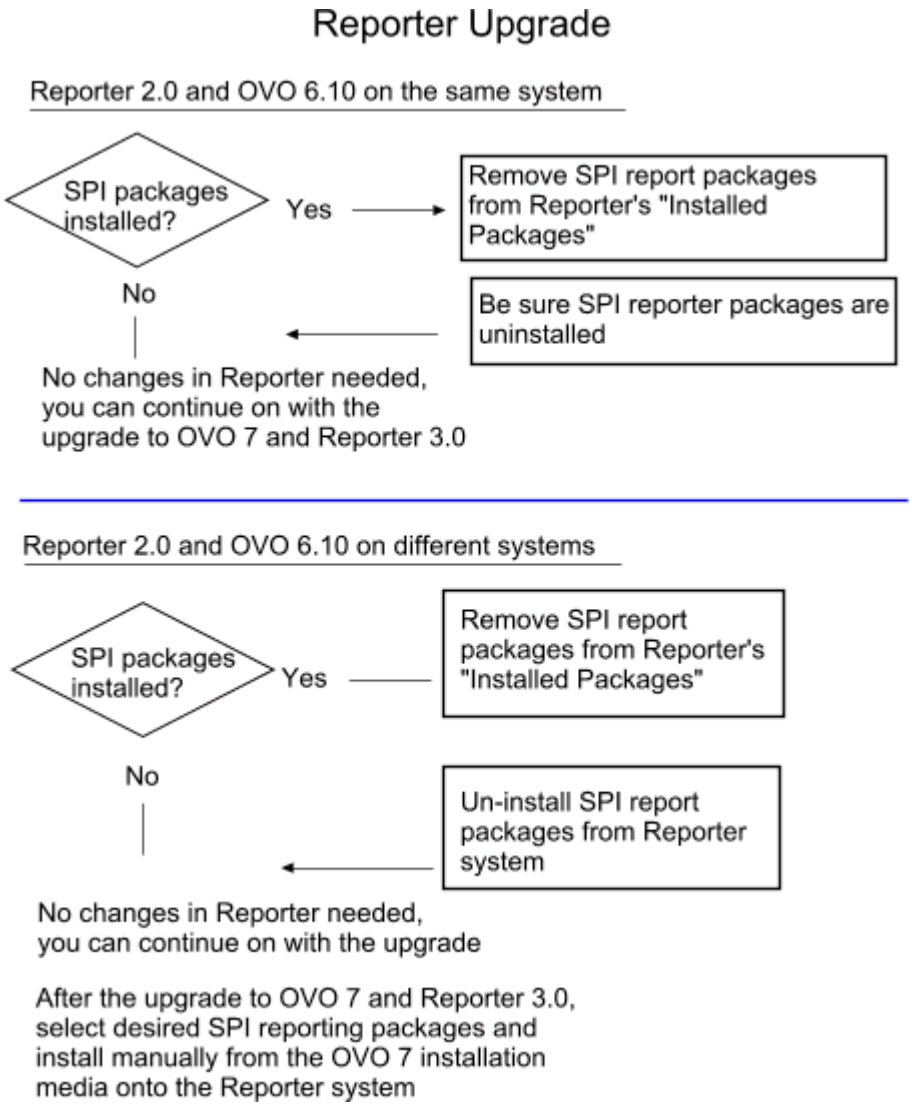
- Remove SPI packages from Reporter's "Installed Packages".
- Uninstall SPI packages from the Reporter system.

Note that with Reporter on a separate system, after upgrading to Reporter 3.0, you will need to select the desired SPI reporting packages from the OVO 7 installation media and install them manually onto the Reporter system. See the SPI documentation for how to do this.

See the flow diagram on the following page for an overview of the steps involved in upgrading and integrating Reporter with OVO 7.

After you finish upgrading to OVO 7 and Reporter 3.0, remove the V**P for Windows 6** package in the Reporter Installed Packages dialog.

Refer to the Reporter release notes for more detailed information.


Reporter Upgrade
Reporter 2.0 and OVO 6.10 on the same system
SPI packages installed?
Yes
Remove SPI report packages from Reporter's "Installed Packages"
No
Be sure SPI reporter packages are uninstalled
No changes in Reporter needed, you can continue on with the upgrade to OVO 7 and Reporter 3.0
Reporter 2.0 and OVO 6.10 on different systems
SPI packages installed?
Yes
Remove SPI report packages from Reporter's "Installed Packages"
No
Un-install SPI report packages from Reporter system
No changes in Reporter needed, you can continue on with the upgrade
After the upgrade to OVO 7 and Reporter 3.0, select desired SPI reporting packages and install manually from the OVO 7 installation media onto the Reporter system

Task 5: Prepare the Management Server for Upgrade

There are some steps it is recommended you follow in order to prepare the OVO 6 Management server and nodes for upgrade.

- Install the VPW_00023 patch on the OVO 6 Management server.
- Uninstall All from the Management server
- Remove Self Management, Core and Windows Module Tools
- Remove some Self Management and Windows Module policies
- Remove some Policy Group folders

It is recommended that you remove tools and some policies of the VantagePoint Self Management and Windows modules because if you don't, the old versions will be migrated at upgrade and you may end up seeing duplicate tools and policies in OVO 7.

At upgrade, the VantagePoint Self Manager will be replaced by the OVO Windows Self Manager Version 4; the Windows Module is replaced by the Windows OS SPI Version 7.

Install VPW_00023 Patch

In order to prepare your OVO 6 server for upgrade you need to install the VPW_00023 patch *prior* to uninstalling OVO 6.

Install the VPW_00023 patch on your OVO 6 Management server prior to uninstalling OVO 6 to prepare for upgrade. You can find this patch on the hp OpenView web site, www.openview.hp.com. From this web site select **Support**. Then select the **Software Patches** link in the Using Products section. In the pull down menu for selecting products, choose **operations for windows** and **->**. Then select **Release A.06.10**. The VPW_00023 patch will be listed. Instructions for installation are available with the patch.

Uninstall All from Management Server

Prior to upgrade you must remove all policies, tools and agents that have been *deployed* to the Management server as follows:

1. In the left pane of the OVO 6 console, open the nodes folder.
2. Select the Management Server node and right-click **All Tasks > Uninstall All**.

Remove Self Management, Core and Windows Module Tools

Also prior to upgrade it is recommended that you delete the tools of the VantagePoint Self Management and Windows Modules.

If you have customized these tools, document the changes so you can recreate them, as needed, in OVO 7.

In the left pane of the console tree, right-click either **Tools**, **Nodes** or **Services** and select **Configure Tools**. Select an individual tool or folder from the list below, and right-click **Delete**. See a list of tools/folders to delete below:

```
\Tools

    \Administration
    \Microsoft Windows
    \Reporting
    \Test Tools
    \VantagePoint Self Manager
    \VantagePoint Reporter
    Performance Grapher
```

Remove Self Management and Windows Module Policies

It is recommended that you remove the following Self Management and Windows module policies from the Management server prior to upgrade.

1. In the left pane of the console tree, open the **Policy Management > Policies Grouped by Type** folder, and select a policy type. For example, Measurement Threshold.

2 Sort on policy name by clicking on the top of the Name column. See the list of policies to be removed below.

- Measurement Threshold Server Policies - Version 3.0

  VP_SM-OvDnsDscvryService
  VP_SM-OvEpMsgActionServer
  VP_SM-OvEpStatusEngine
  VP_SM-OVMSDB
  VP_SM-OvMsmAccessManager
  VP_SM-OVSTODB
  VP_SM-Server_DBUsageMonitor
  VP_SM-WMI
  VP_SM-Server_EventLogEntries

- Scheduled Command Policy - Version 3.0

  VP_SM-Server_SyncAgentServices

3 Select the policies above to be removed.

4 Right-click and select **All Tasks > Delete From Server**. Click OK. Reply **Yes** to the message to confirm the delete.

Optional removal of these policies:

There are some additional policies you can remove now if you don't need to continue to monitor managed nodes with OVO 6 policies after upgrade.

Removing these policies will disable the self management functionality until you upgrade each node to the OVO 7 Agent.

If you plan to upgrade the managed nodes to the OVO 7 agent over an extended time and wish to continue to monitor these nodes with the OVO 6 agents do *not* remove the policies at this time.

If you don't remove these policies now you may remove these old policies after upgrading your nodes to the OVO 7 agent. But be sure you only remove the 3.0 version of the self management policies since some of these policies might have duplicates in OVO 7 with a higher version number.

1 Open the **Policies Grouped by Type** folder, and select a policy type. For example, "Measurement Threshold".

2 Sort on policy name by clicking on the top of the Name column. See the list of policies to be removed below.

- Measurement Threshold

  VP_SM-HP_Ito_Agent
  VP_SM-MDC-NT_DBUsageMonitor
  VP_SM-MDC-NT_OVMEDB
  VP_SM-MDC-NT_Ovnpcs
  VP_SM-MDC-NT_OVPVAdapterService
  VP_SM-MDC-NT_EventLogEntries

  All Policies starting with VP_WIN

- Scheduled Command

  VP_WIN-SyncServices

- Windows Event Log

  All policies starting with VP_WIN

3 Select the policies to be removed (for example all policies starting with VP_WIN) from the lists above.

4 Right-click and select **All Tasks > Uninstall from**. Select all nodes. Click OK. Reply **Yes** to the message to confirm the delete. Some policies may not have this option so continue.

5 Right-click and select **All Tasks > Delete From Server**. Click OK. Reply **Yes** to the message to confirm the delete. Some policies may not have this option.

Remove Policy Group Folders

It is recommended that you remove the following Policy Group folders prior to upgrade. If you still have policies from these policy groups deployed, the folders will get migrated to OVO 7 even though you try to delete them here. That is OK, you can remove the folders later after the upgrade is complete.

1 In the left pane of the console tree, open the **Policy Management > Policy Groups** folder. Select the folders in the lists below.

- \Microsoft Windows
- \VantagePoint Reporter

- \VantagePoint Self Manager

2 Right-click **Delete**.

Task 6: Final Steps

Before upgrading (uninstalling OVO 6 server) you also need to do the following:

- Save any files you created in a place that will not be removed or overwritten at upgrade.
- Shut down all local and remote consoles to prepare for upgrade.

Other Integrations

If you have any (self-made) integrations running that are accessing OVO 6 objects directly via the Windows Management Infrastructure (WMI) APIs then you will need to adapt the integration towards using the OVO 7.10 namespace `Root\HewlettPackard\OpenView\Data` (OVO 6 used `Root\HewlettPackard\OpenView\VantagePoint`). You should also check if all the classes you used are still available.

4

Upgrading to OVO 7

This chapter tells how to complete the upgrade to OVO 7.

If you have already upgraded from OVO 6.x to OVO 7.0, with our previous release, you should skip to the section in chapter 5 on upgrading from OVO 7.0 to OVO 7.10.

The first scenario documented is the In Place upgrade. At the end of this chapter is the Side-by-Side upgrade process.

- **In place upgrade** - Upgrade your existing OVO 6 Management server and consoles running on Windows 2000 to the new OVO 7 software.
- **Side-by-side upgrade** - Leave your OVO 6 implementation as is and install OVO 7 on a separate Windows 2000 server. Then you can gradually bring systems under management with the new OVO 7 Management server.

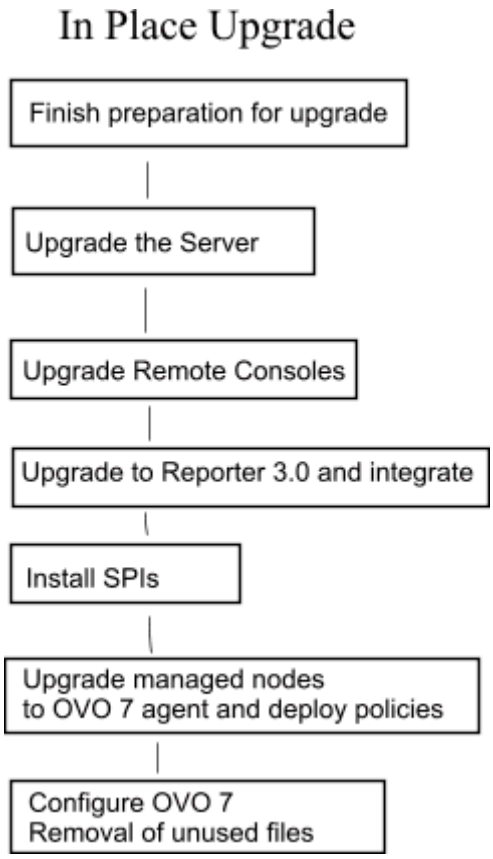
Note that you must upgrade to OVO 7 before installing any of the SPIs included with the OVO 7 media kit.

In Place Upgrade

The flow diagram below gives an overview of the steps involved in completing an **in place** upgrade.

First finish the preparation outlined in chapter 3, then the basic steps are as follows:

1. Upgrade the server.
2. Upgrade or install remote consoles.
3. If using Reporter 2.0, upgrade to Reporter 3.0
4. Install and configure SPIs.
5. Upgrade managed nodes to the OVO 7 Agent and deploy policies as needed.
6. Configure OVO 7. Remove unused files.



Task 1: Upgrade the Server

1 Exit all open OVO 6 consoles including any remote consoles.

WARNING: In the next step some information will be lost, be sure you have gathered all information needed from the OVO 6 server before you continue. See chapter 3 for details on preparing for upgrade.

2 On the OVO server select **Start > Settings > Control Panel > Add/ Remove Programs**. Select HP OpenView for Windows Enterprise Management (A.06.20), and select VantagePoint for Windows. Select **Change/Remove**. A list of options is displayed. Select **Prepare for Upgrade** to uninstall the software.

This will uninstall OVO 6 from the server and uninstall all SPIs.

3 After you uninstall, do the following to unshare the SPI-Share folder, if it exists:

In the Windows Explorer locate the SPI-Share folder:

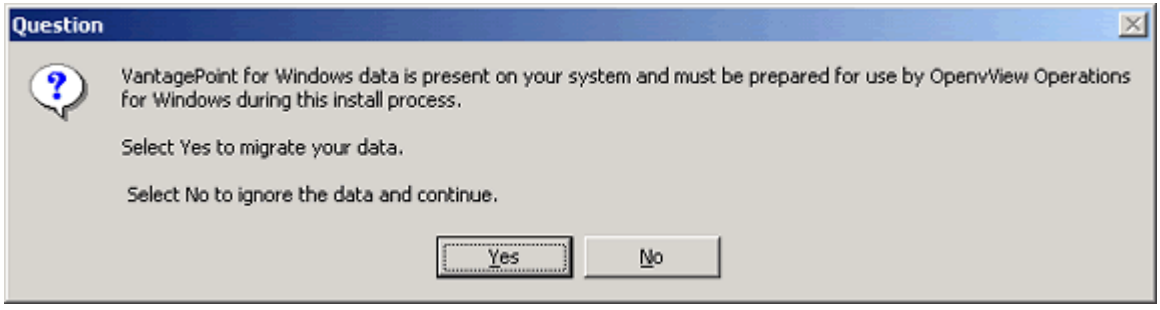
`\Program Files\Hewlett-Packard\OpenView\VantagePoint\SPI-Share`

Right-click on the SPI-Share folder and select **Properties**.

In the Properties window select the Sharing Tab and make a change to select the radio button **Do not share this folder**.

4 Refer to the *hp OpenView Operations/Performance for Windows Installation Guide* and follow the steps to use the OVO 7 media to install the software on the server (it will check to see if OVO was uninstalled to prepare for upgrade). Install the SPIs at a later time after the initial upgrade, see "Task 4: Installing SPIs" beginning on page 62.

5 Respond **Yes** when asked if you want to **Migrate (download) Data**. See the screen shot that follows.



6 You will see numerous errors in deployment jobs after you upgrade the server because the nodes have not been upgraded. See "Why there are Errors in Deployment Jobs for Windows Nodes" beginning on page 58

What Happens When you Upgrade the Server

The OVO 7 install runs a migration program to extract some OVO 6 model data, managed node data and policies and saves the data. This saved data is then uploaded to OVO 7 during upgrade.

The upgrade will automatically move data related to the seven basic policy types from the old database to the new OVO 7 database and automatically import OVO 6 policy files into the OVO 7 policy directory. See the overview in chapter 1 for more on the seven supported policy types in OVO 7.

- Out of the box tools and policies are replaced with an OVO 7 version
- Self Management Polices will have a new name (not starting with VP)
- In some cases user customization of the out of the box OVO 6 policies are saved, however there will be a higher number version available with OVO 7 that does not contain the customization.

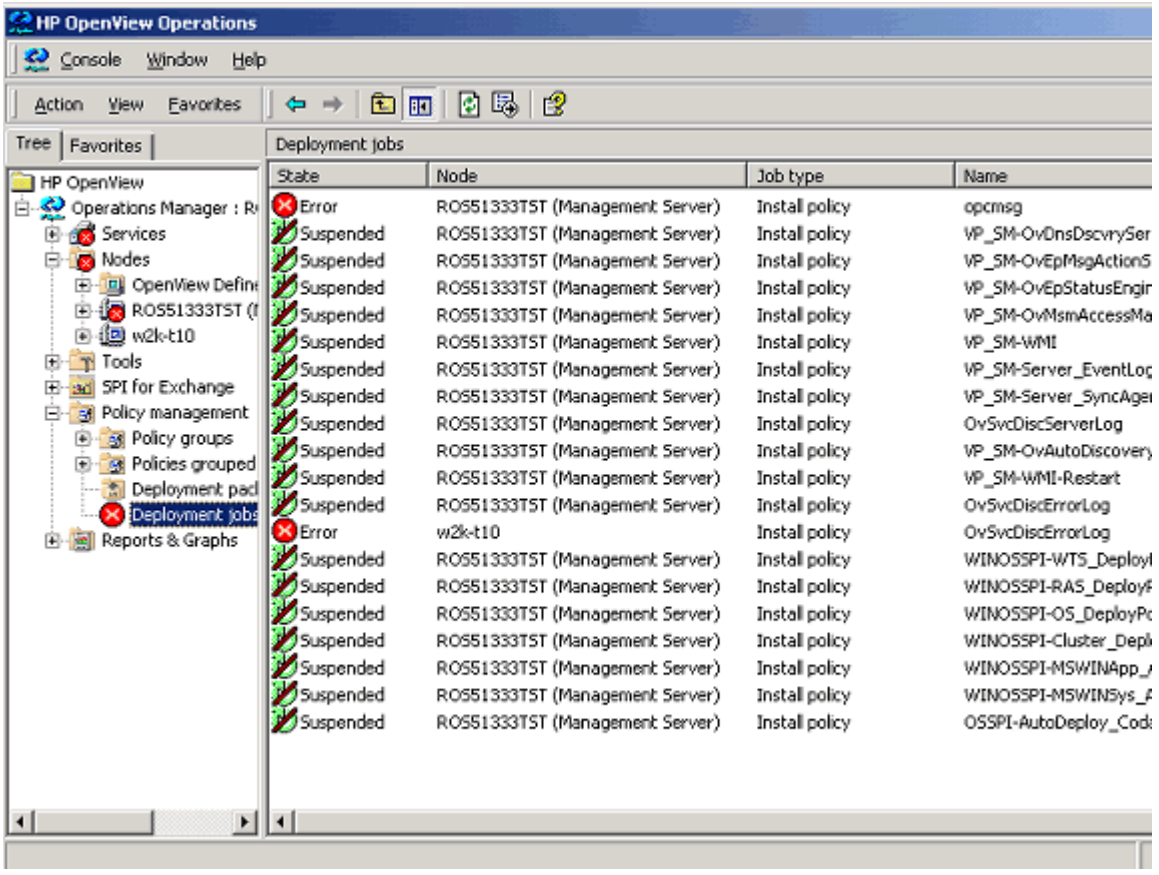
  For example: When the Database SPI with 6.10 is uninstalled all policies that have not been changed or deployed are removed. Modified policies are migrated to OVO 7. These migrated policies will have the version 4.x. After upgrade to OVO 7, all new Database SPI policies will be version 5.0.

After upgrade, as long as you don't upgrade the managed node to the new OVO 7 agent, you can still extract data from the MDC. And if the node still has an old Event/Action Agent (may be renamed to OpenView Operations Agent Version 2.0) too, you can still receive messages from the node and execute tools, but in order to deal with policies, you are asked to upgrade the managed node to the newest OVO 7 agent. Upgrading nodes from the old agent packages to the OVO 7 agent will result in the loss of existing data. See chapter 3 for more information on saving your collected data before upgrading to the new agent.

At upgrade, nodes are not automatically placed in platform subfolders under the OpenView Defined Groups folder, which sets up auto deployment of certain policies. If you want to set up auto deployment for a node see “Auto Deployment” beginning on page 67.

Why there are Errors in Deployment Jobs for Windows Nodes

After upgrade you will see errors in deployment jobs for each Windows managed node. This is because the nodes have not been upgraded to the OVO 7 Agent. If you click on the error you will see a message indicating that you need to Redeploy.



There are two solutions for these errors.

- You can cancel them and deploy the OVO 7 agent to the Windows nodes when you are ready. See "Task 5: Upgrade Managed Nodes" beginning on page 62.

- Or you can go ahead and upgrade the node by selecting to redeploy as described below. Note that when you upgrade a node to the OVO 7 Agent you lose any Measurement Data Collector (MDC) performance data on the node. See chapter 3 for how to save this performance data.

Steps to Redeploy OVO 7 Agent on Windows Nodes:

We recommend that you first upgrade from Reporter 2.0 to 3.0 or OpenView Internet Services (OVIS) 3.x to 4.0 on an OVO 6 managed node, before upgrading this node to the new OVO 7 agent. See "Task 3: Integrating with Reporter 3.0 and other Products" on page 60 for details on what you will see during a Reporter or OVIS installation if you upgrade these products after upgrading the node.

1. Select the node with the error, to be upgrade.
2. Right-click **All Tasks > Redeploy All**.
3. Scroll to the bottom of the deployment jobs. The Redeploy all job for this node is suspended.
4. Select the Redeploy all job and right-click **All Tasks > Restart Job**. Note this puts the job on top of the queue for this node.
5. After the Redeploy all job is completed, select the job with the error for the node and right-click **All Tasks > Restart Job**. This will deploy the OVO 7 Agent and upgrade the node.
6. Follow these steps for each Windows node with an error.

Task 2: Upgrade the Consoles

The OVO 7 consoles must be installed on a Windows 2000 system, Windows NT is not supported. You can either remove the old console and install the new OVO 7 console on the same Windows 2000 system. Or you can install the OVO 7 console on a new Windows 2000 system, there is no need for migration.

1. On any remote consoles, select **Start > Settings > Control Panel > Add/ Remove Programs**. Select HP OpenView VantagePoint 6.10 and select Remove.

2 Refer to the *hp OpenView Operations/Performance for Windows Installation Guide* and follow the steps to use the OVO 7 media to install the software on the console systems.

Since Console .msc files from OVO 6 should not be used in OVO 7, you may want to recreate your console configuration in OVO 7.

Task 3: Integrating with Reporter 3.0 and other Products

We recommend that you first upgrade from Reporter 2.0 to 3.0 or OpenView Internet Services (OVIS) 3.x to 4.0 on an OVO 6 managed node, before upgrading this node to the new OVO 7 agent.

However, if you have already deployed the new OVO 7 agent to a node, you can expect the following to happen during the upgrade of Reporter or OVIS. Reporter 2.0 and/or OVIS 3.x will already be installed into a location other than `\Program Files\HP OpenView\` since this installation directory was not used as a default directory with those versions. When you begin the upgrade installation of Reporter and/or OVIS, the Destination Folders window will display `c:\Program Files\HP OpenView\`. This dialog does not allow you to change the destination folder. The Reporter 3.0 and OVIS 4.0 installation programs detect that the OVO 7 agent is installed into this location and this is what you see displayed in this window. The actual installation will go into the correct directory, where you already have Reporter 2.0 and/or OVIS 3.x installed.

If you upgraded Reporter and/or OVIS BEFORE you upgrade the node from OVO 6 to OVO 7, then the Destination Folders window will display the directory where you already have Reporter 2.0 and/or OVIS 3.x installed.

If you were using Reporter 2.0, you should have already prepared for upgrade to Reporter 3.0 prior to uninstalling OVO 6. See chapter 3 for details.

You can upgrade to Reporter 3.0 before installing OVO 7 or after.

If you want to use Reporter to still gather and report on Measurement Data Collector (MDC) data and have already upgraded to Reporter 3.0, refer to the Reporter release notes for instructions on restoring OVO 6 compatibility in Reporter 3.0 so that you can report on the OVO 6 MDC data. Note: Reporter cannot report on both OVO 6 and OVO 7 nodes. Once you are ready to switch to reporting on nodes with the OVO 7 agent, you must undo the changes you made above to restore OVO 7 compatibility.

If you are installing Reporter on a system other than the OVO Management server and are using SPIs, you will need to select the desired SPI reporting packages from the OVO 7 installation media and install manually onto the Reporter system.

After you finish upgrading to OVO 7 and Reporter 3.0, remove the VP for Windows 6 package in the Reporter Installed Packages dialog.

Refer to the Reporter release notes for more detailed coexistence information.

OpenView Performance Agent (MeasureWare)

The embedded reporting and embedded graphing in OVO 7 will gather, report and graph data ONLY from OVO 7 agents. This integration is automatic.

OpenView Performance Agent (MeasureWare) will coexist on a node with the OVO 7 agent. But to report this OpenView Performance Agent data from OVO 7, you would need to purchase the hp Openview Reporter product. Full Reporter gathers data from both OpenView Performance Agent and the OVO 7 agent. The reports combine the data from the systems in the same reports. To graph this OpenView Performance Agent data from OVO 7, you would need to purchase the hp OpenView Performance Manager 4.0 for Windows product, which allows you to graph data from all agents in the environment.

Task 4: Installing SPIs

After upgrading the managed nodes to the OVO 7 Agent, follow the instructions in each Smart Plug-in's (SPIs) manual for installation and further configuration. See chapter 5 for information mapping SPI policies from the version supplied with OVO 6 to the version supplied with OVO 7.

Viewing Older Versions of SPI Policies

SPI policies from OVO 6 that you customized are saved, however there will also be OVO 7 SPI policies (with a higher version number) that do not contain the customization. In order to view the SPI policies you customized in OVO 6 the following steps need to be taken.

Modify filters so you can access the older version policies. Go to **Policies group by type** and to the policy type where the modified policies exist (for example Measurement Threshold, Logfile Entry etc.). Right-click on the Policy Type and choose **Set Filter...**. In the dialog that appears, select **All version of the policy below** and choose **<any>** in the drop down list box.

Look for policies with the older version number. These policies can now be copied to appropriate groups to deploy along with the newer version policies or by themselves. These older version policies should work fine with the newer version of the SPI.

Refer to the Database SPI manual for information on setting up the discovery/auto deployment features of the new Database SPI policies when deploying older versions of the SPI policies.

Task 5: Upgrade Managed Nodes

With OVO 7 there is a new single agent that replaces the Event/Action Agent and the Measurement Data Collector (MDC). During the OVO 7 installation, agents on managed nodes are not automatically replaced with the new agent. The timing of the upgrade to the new agent on managed nodes can be done at your discretion.

See chapter 3 for how to save performance data on managed nodes and gather information needed to recreate custom policies as needed. Note that you can still run OVExtract.exe on the node to archive MDC performance data. But if you have Reporter and have already upgraded to 3.0, you will need to manually reconfigure Reporter 3.0 to report MDC data. This is because Reporter 3.0 by default only reports data from the OVO 7 agent and the OpenView Performance Agent. See "Task 3: Integrating with Reporter 3.0 and other Products" on page 60 and the Reporter Release Notes.

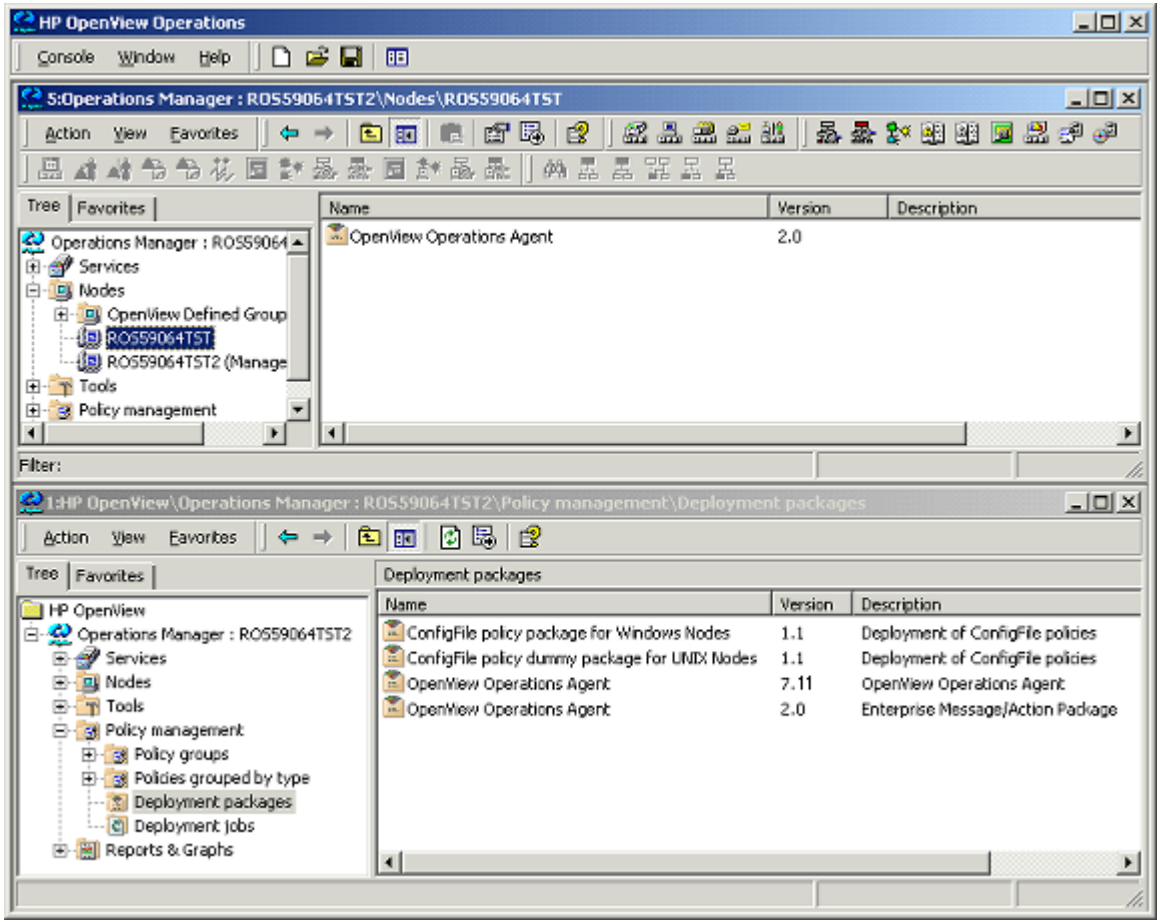
Note however that you will not be able to deploy or modify policies until you have upgraded to the new OVO 7 Agent.

At upgrade, nodes are not automatically placed in platform subfolders under the OpenView Defined Groups folder, which sets up auto deployment of certain policies. If you want to set up auto deployment for a node see "Auto Deployment" beginning on page 67.

Deploy/install New OVO 7.11 Agent Package On Windows Systems

Deploy/install the new OpenView Operations Agent Version 7.11 package on your Windows systems. This can be done via remote deployment or you can manually upgrade the managed nodes using the OVO 7 installation CD.

To deploy the new agent onto Windows systems, select **OpenView Operations Agent Version 7.11** from **Deployment Packages** and deploy this to the nodes you want to upgrade. See an example in the figure below. Refer to the online help for how to deploy the agent package or manually install from the CD.



Install New OVO 7 Agent Package On UNIX Systems

On UNIX nodes, the OVO 6 agent also included the OpenView Performance Agent (OVPA, formerly called MeasureWare). You can uninstall the OpenView Performance Agent prior to installing the new OVO 7 agent or you can leave OVPA installed. OVPA coexists with the OVO 7 agent. Just note that the basic OVO 7 product does not connect to

OVPA or allow you to display graphs and reports of the OVPA data. You can use PerfView or hp OpenView Reporter and hp OpenView Performance Manager 4.0 for Windows to view the OVPA data on the node. If you are using the OVPA Data Source Integration or Application Response Measurement functionality you may want to retain OVPA.

Install the new OpenView Operations Agent Version 7.11 package on your UNIX systems. This can be done using platform specific installation instructions found in the online help.

Note on Linux systems, first uninstall the old agent and then install the new one.

Policies for Managed Nodes

After upgrading your managed nodes to the OVO 7 agent you can deploy new/changed policies to specific nodes. Refer to the online help for information on deploying policies to managed nodes.

You may choose to re-create some custom policies that were based on the MDC performance metrics. To do this you can go to the Measurement Threshold Policy Editor and you'll see the old OVO 6 policies with the MDC data source. You can still view these policies but you cannot save them with MDC selected as the data source. You can create a similar policy, as shown below and select to store the data in the embedded performance component instead.

For example:

In the Measurement Threshold Policy Editor you can recreate a simple Perflib collection, without thresholds as shown in the figure below. The settings are as follows:

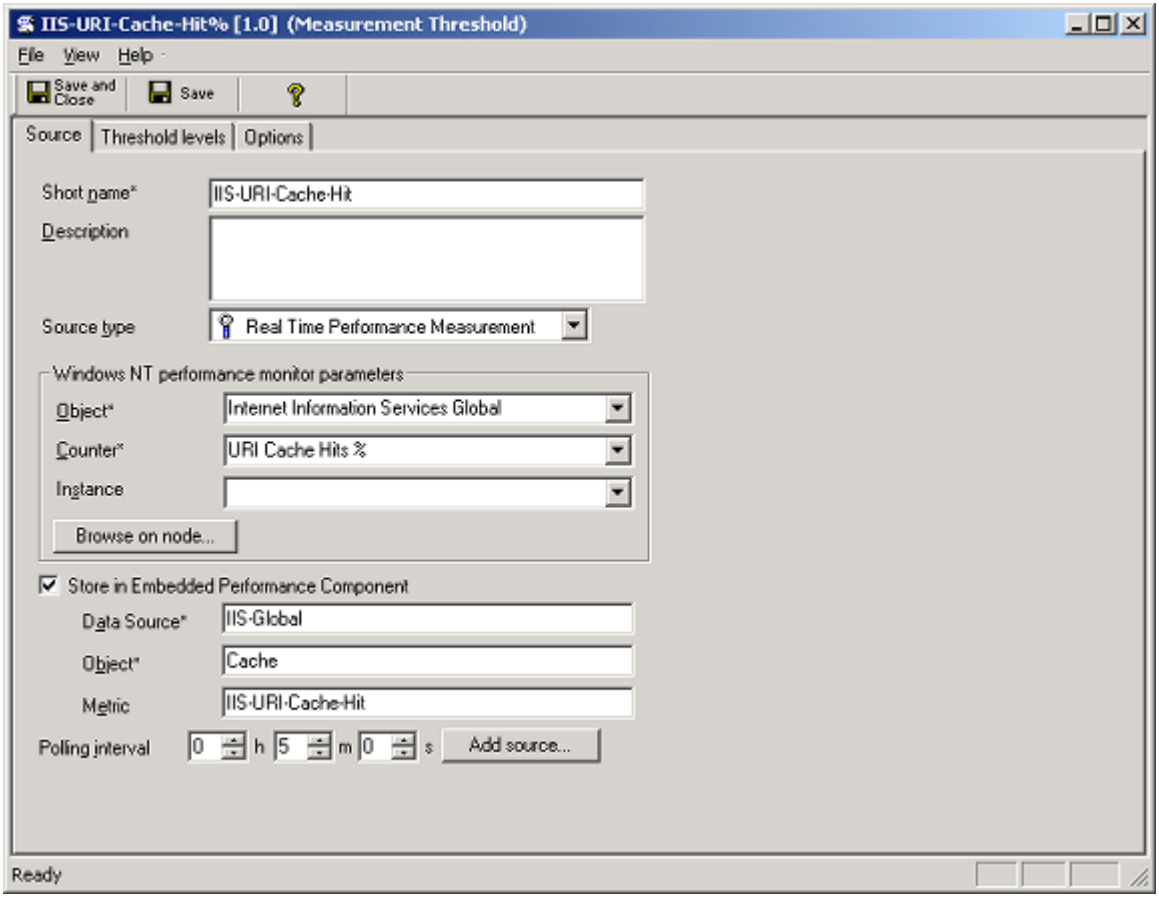
```
\\Internet Information Services Global\URI Cache Hits %
```

Internet Information Services Global is the object. URI Cache Hits % is the Counter, and there is no instance (\\Object\Counter\(Instance)).

Note: The required polling interval for "Store in Embedded Performance Component" is five minutes. The policy editor allows you to specify shorter intervals however the shortest interval for data logging is five minutes.

Note: Setting a threshold level for the collection is optional. To create just a collection without threshold checking, just leave the threshold levels empty.

.



Task 6: Configure OVO 7 and Remove Unused Files

Auto Deployment

When you add a new managed node in OVO 7, the node is added to the appropriate subfolder in the OpenView Defined Groups folder. This sets up the discovery/auto deployment function. The auto deployment feature automatically deploys the contents of certain policy groups when a node is added to the subfolder.

When you upgrade OVO 6 agents to the new OVO 7 Agent these existing managed nodes are NOT automatically added to the OpenView Defined Groups folder for auto deployment.

Once you have upgraded the nodes to the OVO 7 Agent you can then manually set up auto deployment for the nodes. You do this by using the node editor to open the Properties dialog for the node and clicking OK. The node will then be added to the appropriate platform subdirectory.

Migrating Your Custom Instrumentation (Scripts and Executables)

Custom instrumentation files are user created scripts and executables which are located in platform specific folders on the OVO Management server. If you have created custom instrumentation (scripts and executables) in OVO 6 and want to retain them, the files have to be manually copied from the old location to the matching location of the OVO 7 server.

After you upgrade the server, you will see both an old instrumentation folder and a new instrumentation folder; with actions, commands and monitor. Copy your custom files as described below. This process is done after upgrade from OVO 6 to OVO 7. Note that you only need copy your own custom scripts. Don't copy any you haven't customized. For example, the old instrumentation folder will contain scripts from the previous version of SPIs, which do not need to be copied.

Location of Instrumentation (assuming default installation path) for OVO 6.10:

```
C:\Program Files\Hewlett-
Packard\OpenView\VantagePoint\Instrumentation\[OS-
PLATFORM]\[OS Version]\{Action,Command,Monitor}
```

Location of Instrumentation (assuming default installation path) for OVO 7.10:

```
C:\Program Files\HP OpenView\Instrumentation\[OS-
PLATFORM]\[OS Version]\{Action,Command,Monitor}
```

NOTE: There have been changes between OVO 6 and OVO 7.

For example: OVO 7 has separate folders for Windows 2000 and Windows NT. This means that a custom script from OVO 6 for Windows (working on Windows 2000 and Windows NT) has to be copied into the two destination folders for OVO 7.

See the example below for copying a script from the Actions folder for HP-UX 11.0:

Source OVO 6.10:

```
C:\Program Files\Hewlett-
Packard\OpenView\VantagePoint\Instrumentation\HPUX\B.11.0
0\Action\disk_test.sh
```

Destination OVO 7.10:

```
C:\Program Files\HP
OpenView\Instrumentation\HPUX\B.11.00\Action\disk_test.sh
```

NOTE: After nodes are upgraded to the OVO 7 agent, it may be required to redeploy instrumentation to selected nodes, if the above copy process is done after the initial policy deployment.

Removal of Files

On those nodes where an old Event/Action Agent (OpenView Operations Agent Version 2.0) is deployed the MDC is automatically removed by upgrading to the new OVO 7 agent.

Note that when the UNIX agent is uninstalled the old instrumentation files are left and can be deleted manually.

For example on HP-UX and Solaris you must use these commands depending on the versions of software left on the node:

```
rm -rf /var/opt/OV/bin/OpC/actions
rm -rf /var/opt/OV/bin/OpC/cmds
rm -rf /var/opt/OV/bin/OpC/monitor

rm -rf /var/opt/OV/bin/OpC/vpwin/actions
rm -rf /var/opt/OV/bin/OpC/vpwin/cmds
rm -rf /var/opt/OV/bin/OpC/vpwin/monitor
```

For example on AIX you must use these commands depending on the versions of software left on the node:

```
rm -rf /var/lpp/OV/OpC/actions
rm -rf /var/lpp/OV/OpC/cmds
rm -rf /var/lpp/OV/OpC/monitor


rm -rf /var/lpp/OV/OpC/vpwin/actions
rm -rf /var/lpp/OV/OpC/vpwin/cmds
rm -rf /var/lpp/OV/OpC/vpwin/monitor
```

Side-by-Side Upgrade

A side-by-side upgrade is where you install OVO 7 on a "clean" Windows 2000 system and then migrate policies and nodes from the OVO 6 Management server to the OVO 7 server. You do not have to upgrade to Windows 2000 before beginning this process, see chapter 2 for more information.

See the following page for a flow diagram of the side-by-side upgrade process.

Note this process does not cover other OpenView products, just OVO.

The tasks in a side-by-side upgrade are documented below.

You may want to look at your Measurement Data Collector (MDC) policies and collected performance data as described in chapter 3 before beginning the side-by-side migration. These policies will not be available on the OVO 7 system and you may need information from these policies in order to create new, similar measurement policies in OVO 7. The information will remain available on the OVO 6 system for reference. See chapter 3 for information on preparing for upgrade.

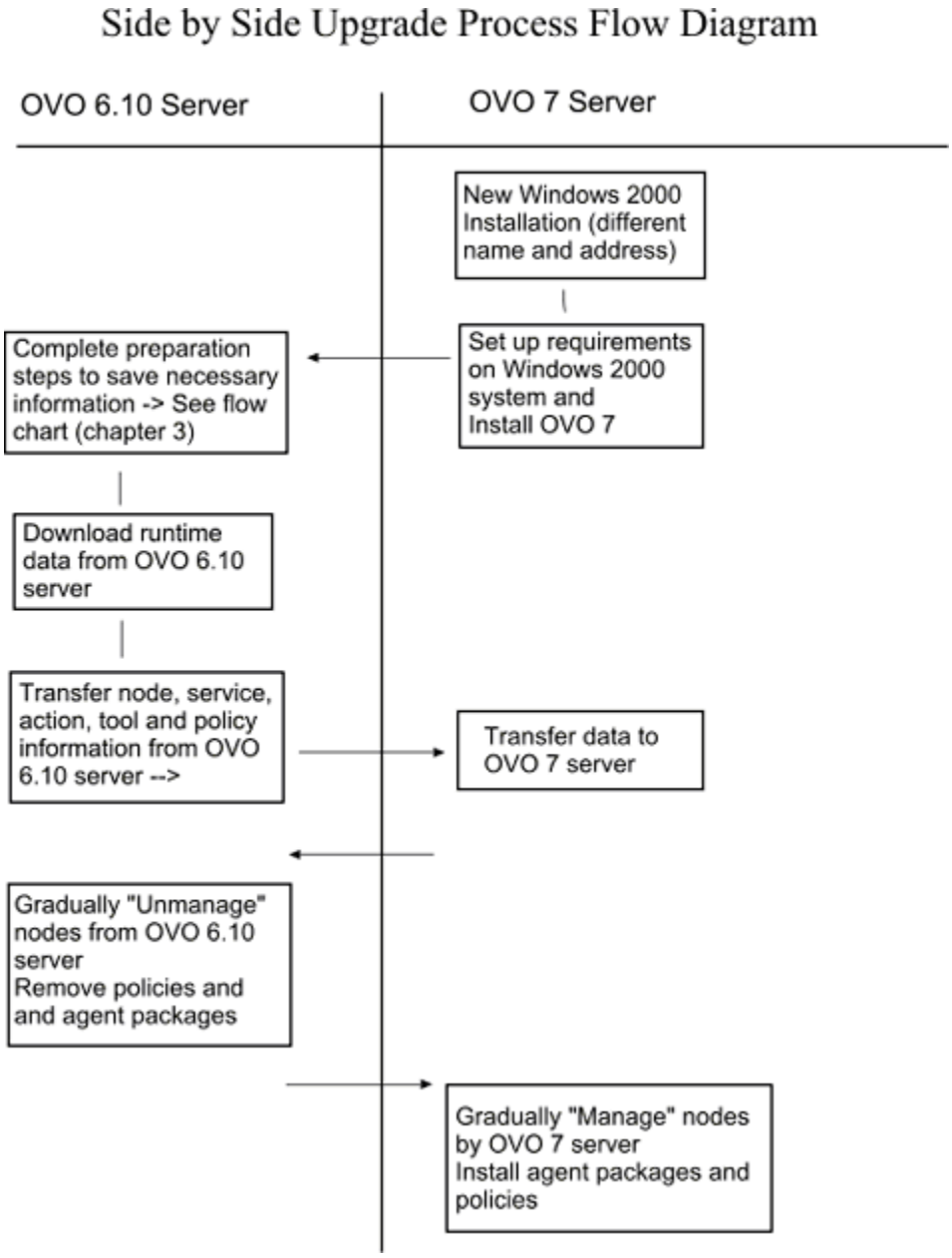
Task 1: Install OVO 7 on a Windows 2000 system.

Install OVO 7 on a "clean" Windows 2000 system. Then prepare to migrate information from your OVO 6 Management server.

Task 2: Stop all OVO 6 processes except the database processes.

Use the following command to stop all relevant OVO 6 processes:

```
net stop winmgmt
```


Side by Side Upgrade Process Flow Diagram
OVO 6.10 Server
OVO 7 Server
New Windows 2000 Installation (different name and address)
Set up requirements on Windows 2000 system and Install OVO 7
Complete preparation steps to save necessary information -> See flow chart (chapter 3)
Download runtime data from OVO 6.10 server
Transfer node, service, action, tool and policy information from OVO 6.10 server -->
Transfer data to OVO 7 server
Gradually "Unmanage" nodes from OVO 6.10 server
Remove policies and and agent packages
Gradually "Manage" nodes by OVO 7 server
Install agent packages and policies

Task 3: Migrate node, service, action and tool information from OVO 6

1. Copy the command line tool `OvModelMigrator.exe` from the OVO 7 installation CD to the OVO 6 Management server.

   CD location: `Disk1\VPW Upgrade Tools\temp\VPWMigration`

   Note: Do not run setup.exe located in the VPW Upgrade Tools directory. This is run automatically by the upgrade and should not be run manually.

2. Execute the `OvModelMigrator.exe` tool to export the configuration data from OVO 6.

   Syntax: `OvModelMigrator -v -wmi -umof <destination file name>`

   Example: `OvModelMigrator -v -wmi -umof c:\OVO6data.mof`

3. Copy the `c:\OVO6data.mof` file to the OVO 7 server.

4. On the OVO 7 server, execute the `OvMofInstanceComp.exe` program installed on the OVO 7 server. This will import the configuration data from the OVO 6 server to the OVO 7 server.

   Run: `OvMofInstanceComp c:\OVO6data.mof`

   (The default location of this program is `C:\Program Files\HP Openview\bin`). Don't run this twice or it will create duplicates.

   Follow the steps in Task 4 to migrate the existing OVO 6 policies to the OVO 7 server. Then finally, Task 5 will complete the migration process. Each managed node will be modified so that it is managed by the OVO 7 server and no longer managed by the OVO 6 server,

Task 4: Migrating OVO 6 policies

Download policies of the seven supported policy types from OVO 6.

1. Copy the command line tool `OvPmDownload.exe` from the OVO 7 installation CD to the OVO 6 Management server.

2. Create a directory to store the extracted PMAD configuration data, for example: `c:\download`

3. Execute the `OvPmDownload` program with this directory as a parameter:

   ```
   OvPmDownload /d c:\download
   ```

4. Copy the download directory to the OVO 7 server.

5 Finally run `ovsqlsrvimport.bat` which is installed on the OVO 7 server. (The default location of this file is `C:\Program Files\HP Openview\install`). Import the directory using the syntax below:

```
ovsqlsrvimport <OVO 7 directory> <download directory>
<password of database user OVMS_ADMIN>
```

for example:

```
ovsqlsrvimport "c:\Program Files\HP OpenView" c:\download
OVMS
```

6 All polices have now been successfully migrated to the OVO 7 server.

Task 5: Migrating managed nodes

The managed node information from the OVO 6 server has been copied to your new OVO 7 server. To complete the migration process, each of the managed nodes needs to be registered with the new management server.

1 Bring up the OVO 7 console.

2 Display the Node list. All the nodes that were listed in the OVO 6 console should be displayed.

3 The old OVO 6 management server node will be displayed in the node list. Remove this entry. Use the Configure Nodes... Editor to delete this entry. Note: You should only see the old management server listed, the OVO 7 management server cannot be deleted.

4 For UNIX managed nodes you have to remove the old agent package manually and install the new agent package manually as described in the OVO online help.

5 For each Windows managed node execute the following steps. This will modify the managed node so that it is no longer managed by OVO 6. Then establish management with the OVO 7 server.

On the OVO 6 Server - Remove the old Agent package as follows:

Once this step is complete the node will no longer be managed by this server.

a On the OVO 6 server, view the managed node's **Package Inventory.**

b Remove the **Enterprise Message/Action Agent** package, version 2.0.

c View **Deployment jobs** and verify that the removal was successful.

On the OVO 7 Server - Install the new Agent package and set the managed node

d On the OVO 7 server, deploy the OpenView Operations Agent Version 7.11 package, by opening the **Policy Management > Deployment packages** folder, select **OpenView Operation Agent, Version 7**. Right-click on the package, select **All Tasks, Deploy On...** and select the managed node.

e View **Deployment jobs** and verify that the deployment was successful. Once this step is completed the policies already deployed to this node can be viewed.

f By re-setting the OS type for this managed node as shown below, the node will be assigned to the appropriate OpenView Defined Groups folder so that auto deployment is enabled.

- Open the Configure Nodes... Editor.
- Select the Managed node.
- Right click on **Properties**, Click **OK**.

g Your managed node is now configured into the proper OS Node Group folder.

On the OVO 6 Server - Remove unmanaged node.

h Delete the managed node from the OVO 6 Server. Use the Configure, Nodes... Editor. Select the managed node; Right-click and select **Delete**. Click **Yes** to the confirmation prompt.

6 Repeat the process in Step 4 and 5 above for each OVO 6 managed node that you want to manage from OVO 7. Until you have you have gone through these steps, the node will continue to be managed by the OVO 6 server. Messages will not be forwarded to the OVO 7 server.

If you no longer wish to manage a node formerly managed by OVO 6, use OVO 6 to un-deploy the policies and packages from that node. Then remove the node from the OVO 7 server.

Task 6: You are done with the OVO 7 upgrade process.

Note that a reporting component is included with OVO 7 which will produce reports on the OVO 7 managed nodes and OVO 7 messages.

If you also have the hp OpenView Reporter product (Reporter) installed on the OVO 6 Management server, you may continue to run Reporter separately. If you want to move the Reporter product to the new OVO 7 server, then:

- Install Reporter 3.0 on the new OVO 7 server, which will upgrade the embedded reporting component in OVO 7.
- Move your Reporter license key from the old system to this new system.
- If you have customized reports, move them to the new system after upgrading them to Crystal 8.5 (the only version supported in Reporter 3.0).

See the Reporter documentation for more information.

5

Other Information

Upgrading from OVO 7.0 to OVO 7.10

If you have already upgraded from OVO 6.x to OVO 7.0 with our previous release you only need to do the following to upgrade from OVO 7.0 to OVO 7.10.

1. Install patch OVOW_00003 on your management server prior to uninstalling OVO 7.0 to prepare for upgrade. You can find this patch on the hp OpenView web site, www.openview.hp.com. From this web site select **Support**. Then select the **Software Patches** link in the **Using Products** section. In the pull down menu for selecting products, choose **operations for windows** and **->**. Then select Release A.07.00. The OVOW_00003 patch will be listed. Instructions for installation are available with the patch. The patch must be installed prior to doing the download in the next step.

2. Download the current service map prior to uninstalling OVO 7.0. Run the following command from a temporary folder (e.g., `C:\TEMP`):
   `ovpmutil cfg svc dnl <filename>`
   where `<filename>` is the name of the file you want to download the service map into.

   Note that if you don't download the service map prior to uninstalling OVO 7.0, all services based on the SPI Service Type would need to be rediscovered and custom (user created) services based on the SPI Service Type would be lost.

3. As a precaution, you should backup the reporting database before upgrading from OVO 7.0 to OVO 7.10. If you have purchased the HP OpenView Reporter product, follow the directions for database backup in the Reporter Concepts Guide, "Advanced Topics". If you have not installed the Reporter product, follow the instructions provided in the OVO online help topic "Backup and restore the reporting component database".
4. Exit all open OVO 7.0 consoles including any remote consoles.
5. On the OVO server select **Start > Settings > Control Panel > Add/ Remove Programs**. Select hp OpenView operations performance for Windows. Select **Change**. Select **Remove** to uninstall all of the software.

   This will uninstall OVO 7.0 from the server and uninstall all SPIs.
6. Refer to the *hp OpenView Operations/Performance for Windows Installation Guide* and follow the steps using the OVO 7.10 media to install the software on the server (it will check to see if OVO 7.0 was uninstalled to prepare for upgrade).

   During installation, when prompted for the installation and data directory, use the same path name you used for OVO 7.0. In the security setup dialog, it is recommended that you use the same values for the HP-OVE-User account and HP-OVE-GROUP account.
7. Also from the OVO 7.10 installation media, re-install the same SPIs you are currently using.

   Note that the same SPIs you used with OVO 7.0 need to be installed before the service map can be uploaded (otherwise the service map may not contain the same services as prior to the upgrade).
8. Install OVO 7.10 on any remote consoles.
   a. First uninstall the OVO 7.0 software on any remote consoles. Then select **Start > Settings > Control Panel > Add/Remove Programs**. Select hp OpenView operations performance for Windows. Select **Remove** to uninstall the software.
   b. Refer to the *hp OpenView Operations/Performance for Windows Installation Guide* and follow the steps using the OVO 7.10 media to install the software on the remote console systems.
9. Launch the OVO console as an OVOW Admin, in the left pane (tree selector) select the management server node and right-click **All Tasks > Redeploy All t**o install the new version of the agent on the server.

10 After the installation of OVO 7.10 and the SPIs, upload the service map you downloaded in the second step. Run the following command from the temporary folder (e.g., `C:\TEMP`):
`ovpmutil cfg svc upl <filename>`
where `<filename>` is the name of the file you used to download the service map prior to the upgrade.

11 Deploy/install the new OpenView Operations Agent Version 7.11 package on your Windows systems. To deploy the new agent onto Windows systems via remote deployment, select **OpenView Operations Agent Version 7.11** from **Deployment Packages** and deploy this to the nodes you want to upgrade. Refer to the online help for information on how to deploy the agent package or manually install from the CD.

12 Install the new OpenView Operations Agent Version 7.11 package on your UNIX systems. This can be done using platform specific installation instructions found in the online help.

Note on Linux systems, first uninstall the old agent and then install the new one.

Policy Mapping

SPI for Windows OS

The Smart Plug-In for Windows (Windows OS SPI) is integrated into the hp OpenView Operations for Windows containing functionality for monitoring, controlling and reporting on the health of the complete Windows enterprise. It provides preconfigured policies, tools and reports for managing the Windows 2000 and Windows NT4.0 operating environments, a broad range of Microsoft applications, and the most common Microsoft applications on the Windows server systems. It encompasses most of the functionality of the following hp products: Winmodule and Win+SPI from the OVO 6 release, the Microsoft part of the HP OpenView VantagePoint Internet Services Passive Monitoring Component version A.03.50, and additional policies have been provided to duplicate policy coverage found in ManageX.

With the exception of the prefix used for this release, policy names have not changed from what they were in the previous four individual components pulled together into a single Windows OS SPI component.

Old Prefixes

- IS (VP-IS/PMC)
- VP_WIN (Windows Module)
- WIN_SPI (Windows+ SPI)

New Prefix

- WINOSSPI (Windows OS SPI)

Policies

The Windows OS SPI included with OVO 7, contains 409 policies, 26 auto deployed policies and 33 auto discovery policies that map directly to the functionality provided in the SPIs with OVO 6. The following changes have been made to the policies.

The following policies have been added in this release-

WINOSSPI-ADS_Logging
WINOSSPI-Cluster_DeployPolicyWhenServiceDiscovered
WINOSSPI-Dell4.3_FwdEventLogEntries
WINOSSPI-DHCPCI_DHCPClient
WINOSSPI-EventLogService
WINOSSPI-HPOmniBackII_FwdAllInformation
WINOSSPI-HPOmniBackII_FwdAllWarnError
WINOSSPI-IIS_Logging
WINOSSPI-IIS40_ActiveServerPages_MemoryAllocated
WINOSSPI-IIS40_ActiveServerPages_RequestsAllocated
WINOSSPI-IIS40_InternetInformationServicesGbl_CachedFileHandles
WINOSSPI-IIS40_InternetInformationServicesGbl_CacheHitsPct
WINOSSPI-IIS40_InternetInformationServicesGbl_DirectoryListings
WINOSSPI-IIS40_InternetInformationServicesGbl_FileCacheHitsPct
WINOSSPI-IIS40_InternetInformationServicesGbl_Objects
WINOSSPI-IIS40_MSMQQueue_MessageInQueue
WINOSSPI-IIS40_Process_PageFaultsSec_InetInfo
WINOSSPI-IIS40_Process_PctProcessorTime_InetInfo
WINOSSPI-IIS40_Process_PrivateBytes_InetInfo
WINOSSPI-IIS40_Process_ThreadCount_InetInfo
WINOSSPI-IIS40_Process_WorkingSet_InetInfo
WINOSSPI-IIS40_Server_BytesTransmittedSec
WINOSSPI-IIS40_WebServices_CurrentAnonymousUsers
WINOSSPI-IIS50_ActiveServerPages_RequestsAllocated
WINOSSPI-IIS50_IndexingService_FilesToBeIndexed
WINOSSPI-IIS50_IndexingService_NoDocumentsIndexed
WINOSSPI-IIS50_IndexingService_RunningQueries
WINOSSPI-IIS50_InternetInformationServicesGbl_FileCacheHitsPct
WINOSSPI-IIS50_MSMQQueue_MessageInQueue
WINOSSPI-IIS50_Process_PageFaultsSec_InetInfo
WINOSSPI-IIS50_Process_PctProcessorTime_InetInfo
WINOSSPI-IIS50_Process_PrivateBytes_InetInfo
WINOSSPI-IIS50_Process_ThreadCount_InetInfo
WINOSSPI-IIS50_Process_WorkingSet_InetInfo
WINOSSPI-IIS50_Server_BytesTransmittedSec
WINOSSPI-IIS50_WorkingSet_AvailableBytes

WINOSSPI-IISLogFileCollector
WINOSSPI-McAfee_AVSyncMgr
WINOSSPI-McAfee_McShield
WINOSSPI-MOM_FwdAllAlerts
WINOSSPI-MSCertSvr10_FwdAllInformation
WINOSSPI-MSCertSvr10_FwdAllWarnError
WINOSSPI-MSIndexServer-ContentIndex_FilesToBeFiltered
WINOSSPI-MSIndexServer-ContentIndex_NumDocumentFiltered
WINOSSPI-MSIndexServer-FwdAllInformation
WINOSSPI-MSIndexServer-FwdAllWarnError
WINOSSPI-MSPS20_FailingRequestsSec
WINOSSPI-MSPS20_ThreadPoolFailures
WINOSSPI-MSPS20_TotalDroppedFrames
WINOSSPI-MSPS20_TotalFailedSocksSessions
WINOSSPI-MSPS20_TotalFailingRequests
WINOSSPI-MSWINApp_AutoDiscovery
WINOSSPI-MSWINSys_AutoDiscovery
WINOSSPI-NAV_NortonAVSever
WINOSSPI-NAV_NortonAVSever
WINOSSPI-NW_CacheBufferUsageCheck
WINOSSPI-NW_CacheHitCheck
WINOSSPI-NW_CheckSNMPService
WINOSSPI-NW_CheckSNMPService
WINOSSPI-NW_DirectoryEntryCheck
WINOSSPI-NW_DiskWatch
WINOSSPI-NW_FileCacheCheck
WINOSSPI-NW_FilePurgeAttribChanged
WINOSSPI-NW_LogCPUSummary
WINOSSPI-NW_LoginsDisabledCheck
WINOSSPI-NW_LogModuleSummary
WINOSSPI-NW_LogVolumeSummary
WINOSSPI-NW_MeasurementDataCollector
WINOSSPI-NW_Messages
WINOSSPI-NW_Messages
WINOSSPI-NW_NetworkErrors
WINOSSPI-NW_NetworkPerformance
WINOSSPI-NW_NLMsLoadedUnloaded
WINOSSPI-NW_OpenFilesPercentageCheck
WINOSSPI-NW_OpenFilesPercentageCheck

WINOSSPI-NW_ProxyNodeConfig
WINOSSPI-NW_ProxyNodeConfig
WINOSSPI-NW_PurgeBlockCheck
WINOSSPI-NW_RecvPacketBufferCheck
WINOSSPI-NW_RoutingPercentageCheck
WINOSSPI-NW_ServerDown
WINOSSPI-NW_ServerUtilizationCheck
WINOSSPI-NW_SystemVolumeCheck
WINOSSPI-NW_UtilizationFifteenMinuteCheck
WINOSSPI-NW_UtilizationFiveMinuteCheck
WINOSSPI-NW_UtilizationOneMinuteCheck
WINOSSPI-NW_VolumeAddRem
WINOSSPI-NW_VolumeChangeSize
WINOSSPI-NW_VolumeFreeSpace
WINOSSPI-OS_DeployPolicyWhenServiceDiscovered
WINOSSPI-RAS_DeployPolicyWhenServiceDiscovered
WINOSSPI-SMS_Logging
WINOSSPI-SS30_AspRequestsExecuting
WINOSSPI-SS30_AspRequestWaitTime
WINOSSPI-SS30_AvailableBytes
WINOSSPI-SS30_WebServicesGetRequestsSec
WINOSSPI-SysMon_Cache_DataMapsSec
WINOSSPI-SysMon_Cache_MDLReadsSec
WINOSSPI-SysMon_Cache_PinReadHitsPct
WINOSSPI-SysMon_Cache_ReadAheadsSec
WINOSSPI-SysMon_Memory_PagesInputSec
WINOSSPI-SysMon_Memory_PagesSec
WINOSSPI-SysMon_Redirector_WritesDeniedSec
WINOSSPI-SysMon_Server_PoolNonpageFailures
WINOSSPI-SysMon_Server_PoolPagedFailures
WINOSSPI-SysMon_System_ProcessorQueueLength
WINOSSPI-SysMon_WorkItemStorages
WINOSSPI-VeritasBackupExec_FwdAllInformation
WINOSSPI-VeritasBackupExec_FwdAllWarnError
WINOSSPI-WF-Process_PctPorcessorTime_Ibrowser
WINOSSPI-WINOS_NT4_Logging
WINOSSPI-WINOS_Win2k_Logging
WINOSSPI-WTS_DeployPolicyWhenServiceDiscovered
WINOSSPI-WTS_System_PctProcessorTime-NT4
WINOSSPI-WTS_System_TotalErrors-NT4
WINOSSPI-WTS_System_TotalFrames-NT4

WINOSSPI-WTS_TerminalServices_ActiveSessions-Win2k
WINOSSPI-WTS_TerminalServiceSession_PctProcessorTime-Win2k
WINOSSPI-WTS_TerminalServiceSessionTotalErrors-Win2k
WINOSSPI-WTS_TerminalServiceSessionTotalFrames-Win2k
WINOSSPI-WTS_User_PctProcessorTime-NT4
WINOSSPI-WTS-NT4_Logging
WINOSSPI-WTS-Win2k-Logging

There are a few more policies for managing Microsoft Exchange Server, Microsoft SQL Server and Microsoft .NET Servers. Refer to the online help for a detailed information on those policies.

The following policies have been removed from this release-

IS-IIS40_Reporting
IS-IIS50_Reporting
IS-MCIS25_ChatServerFwdAllSystemInformation
IS-MCIS25_ChatServerFwdAllSystemWarnError
IS-MCIS25_ChatSrvProcMon
IS-MCIS25_CpsServerFwdAllApplicationInformation
IS-MCIS25_CpsServerFwdAllApplicationWarnError
IS-MCIS25_HmiServerFwdAllApplicationInformation
IS-MCIS25_HmiServerFwdAllApplicationWarnError
IS-MCIS25_IasServerFwdAllApplicationInformation
IS-MCIS25_IasServerFwdAllApplicationWarnError
IS-MCIS25_IasSrvProcMon
IS-MCIS25_Imap4ServerFwdAllSystemInformation
IS-MCIS25_Imap4ServerFwdAllSystemWarnError
IS-MCIS25_Imap4SrvProcMon
IS-MCIS25_LdapServerFwdAllApplicationInformation
IS-MCIS25_LdapServerFwdAllApplicationWarnError
IS-MCIS25_LdapSrvProcMon
IS-MCIS25_MailServerFwdAllSystemInformation
IS-MCIS25_MailServerFwdAllSystemWarnError
IS-MCIS25_MapsServerFwdAllApplicationInformation
IS-MCIS25_MapsServerFwdAllApplicationWarnError
IS-MCIS25_MseServerFwdAllApplicationInformation
IS-MCIS25_MseServerFwdAllApplicationWarnError
IS-MCIS25_Pop3ServerFwdAllSystemInformation

IS-MCIS25_Pop3ServerFwdAllSystemWarnError
IS-MCIS25_Pop3SrvProcMon
IS-MSPS20_DiagnosticMeasurement
IS-MSPS20_IncrFailingRequestsSec
IS-MSPS20_IncrThreadPoolFailures
IS-MSPS20_IncrTotalDroppedFrames
IS-MSPS20_IncrTotalFailedSocksSessions
IS-MSPS20_IncrTotalFailingRequests
IS-MSPS20_WebProxyServerThresholding
VP_WIN-NT4_Reporting
VP_WIN-Win2k_Reporting
VP_WIN-ARMBaseMeasurementTemplate
VP_WIN-ARMDefault
VP_WIN-ARMSloViolation
VP_WIN-ARMTransactionMeasurement
VP_WIN-BaseMeasurementTemplate-NT4
VP_WIN-BaseMeasurementTemplate-Win2k
VP_WIN-CpuBottleneck-NT4
VP_WIN-CpuBottleneck-Win2k
VP_WIN-DHCPCl_FwdAllInfo
VP_WIN-DHCPCl_FwdAllWarnError
VP_WIN-DHCPSvr_FwdAllInfo
VP_WIN-DHCPSvr_FwdAllWarnError
VP_WIN-DNS_FwdAllInformation
VP_WIN-DNS_FwdAllWarnError
VP_WIN-DiagnosticMeasurement-NT4
VP_WIN-DiagnosticMeasurement-Win2k
VP_WIN-DiskBottleneck-NT4
VP_WIN-DiskBottleneck-Win2k
VP_WIN-DomainAdminsGrpChngd
VP_WIN-FwdAllAppLogEntries
VP_WIN-FwdAllSecLogEntries
VP_WIN-FwdAllSysLogEntries
VP_WIN-FwdDrWatsonErrors_ID4097
VP_WIN-GlobalGroupChanged
VP_WIN-HealthMeasurement-NT4
VP_WIN-HealthMeasurement-Win2k
VP_WIN-LocalAdminGrpChngd
VP_WIN-LocalGroupChanged
VP_WIN-MemoryBottleneck-NT4
VP_WIN-MemoryBottleneck-Win2k

VP_WIN-RAS_FwdAllInformation
VP_WIN-RAS_FwdAllWarnError
VP_WIN-SecAccountPolicyChngd
VP_WIN-SecFwdAuditFailures
VP_WIN-SecLocalAdminLogon
VP_WIN-SecLogonAsUser
VP_WIN-SecurityIntruderDetection
VP_WIN-SrvCtrMng_FwdAllInfo
VP_WIN-SrvCtrMng_FwdAllWarnError
VP_WIN-SyncServices
VP_WIN-TCPIP_FwdAllInformation
VP_WIN-TCPIP_FwdAllWarnError
VP_WIN-WINS_FwdAllInformation
VP_WIN-WINS_FwdAllWarnError
VP_WIN-Win2KSysMon_CpuSpikeCheck
WIN_SPI-ADS_DNSAvailableSRV
WIN_SPI-ADS_DNSDDNS
WIN_SPI-ADS_DNSNameResolution
WIN_SPI-ADS_FSMODomainOwner
WIN_SPI-ADS_FSMORole
WIN_SPI-ADS_PDCOwner
WIN_SPI-ADS_Reporting
WIN_SPI-McAfee_NetAssoAlertMgr
WIN_SPI-McAfee_NetAssoMcShield
WIN_SPI-McAfee_NetAssoTaskMgr
WIN_SPI-SMS12_EventLogEntries
WIN_SPI-SMS12_SMS_CLIENT_CFG_MGR
WIN_SPI-SMS12_SMS_EXECUTIVE
WIN_SPI-SMS12_SMS_HIERARCHY_MGR
WIN_SPI-SMS12_SMS_INV_AGT_NT
WIN_SPI-SMS12_SMS_PKG_CMD_MGR_NT
WIN_SPI-SMS12_SMS_SITE_CFG_MGR
WIN_SPI-SQL2K_CacheHitRatio
WIN_SPI-SQL2K_FwdAllInformation
WIN_SPI-SQL2K_FwdAllWarnError
WIN_SPI-SQL2K_MSSQLServer
WIN_SPI-SQL2K_PctLogUsed
WIN_SPI-SQL2K_PndngReplTransInDB
WIN_SPI-SQL2K_SQLServerAgent
WIN_SPI-SQL2K_UserConnections
WIN_SPI-SQL70_CacheHitRatio

WIN_SPI-SQL70_FreeBuffers
WIN_SPI-SQL70_FwdAllInformation
WIN_SPI-SQL70_FwdAllWarnError
WIN_SPI-SQL70_MSSQLServer
WIN_SPI-SQL70_PctLogUsed
WIN_SPI-SQL70_PndngReplTransInDB
WIN_SPI-SQL70_SQLServerAgent
WIN_SPI-SQL70_UserConnections
WIN_SPI-SQL65_CacheFreeBuffer
WIN_SPI-SQL65_CacheHitRatio
WIN_SPI-SQL65_CompPgsFetchdFnd
WIN_SPI-SQL65_FwdAllInformation
WIN_SPI-SQL65_FwdAllWarnError
WIN_SPI-SQL65_Licensing
WIN_SPI-SQL65_LogUsage
WIN_SPI-SQL65_LogWritesSec
WIN_SPI-SQL65_MSSQLServer
WIN_SPI-SQL65_NetCmdQueueLength
WIN_SPI-SQL65_OutstdReads
WIN_SPI-SQL65_OutstdWrites
WIN_SPI-SQL65_PageReads
WIN_SPI-SQL65_PageWrites
WIN_SPI-SQL65_ReplctdTrnsactns
WIN_SPI-SQL65_SQLExecutive
WIN_SPI-SyncServices

Reports and Tools

The Windows OS SPI contains 80 reports and 145 tools. The following new reports have been added.

AD Memory Usage
AD Process Usage
AD Replication Inbound
AD Replication Outbound
AD Replication Summary
Allocation Blocks Memory Pool Sum for NetWare Svrs
Bottom 10 URLs by Traffic, Last Requested URLs
Cache Buffer Pool Sum for NetWare Svrs
Cache Buffer Sum for NetWare Svrs
CPU Detail
CPU Process Detail

CPU Queue Status Detail
CPU Status Sum for NetWare Svrs
CPU Summary
CPU Total Use Monthly Report
CPU Total Use Weekly Report
CPU Usage Detail Report
CPU Usage Summary
CPU Usage Summary – Monthly
CPU Usage Summary – Weekly
Directory Cache Buffer Sum for NetWare Svrs
Hourly Memory Status Report
IIS Inetinfo Process
IIS Processor Vs Web Service Throughput Daily
IIS Processor Vs Web Service Throughput Weekly
IIS Server Load and Traffic Rpt – Daily
IIS Server Load and Traffic Rpt - Weekly
IIS Web Service
Logical Disk Detail
Logical Disk Freespace
Logical Disk FreeSpace Usage - Monthly
Logical Disk FreeSpace Usage – Weekly
Logical Disk Free Space Report
Logical Disk Summary
Logical Disk Usage
Memory Detail Breakdown
Memory PageFile
Memory Summary
Memory Detail BreakDown
Memory Detail Report
Memory Use Summary Report – Monthly
Memory Use Summary Report - Weekly
Memory Use Monthly Report
Memory Use Weekly Report
Memory Pool Sum for NetWare Svrs
Network Connections Summary
Network Usage Monthly
Network Usage Weekly
Networking Connections Detail
Networking Traffic Detail
Network Traffic Summary
NLM Sum for NetWare Svrs

Packet Receive Buffer Sum for NetWare Svrs
Packet Receive Buffer Sum for NetWare Svrs
Physical Disk Detail
Physical Disk Summary
Physical Disk Throughput Summary
Physical Disk Usage
Process Memory
Processor Instance(s)
Service/Transaction Processes Sum for NetWare Svrs
Site Server – Detail
Site Server - Weekly
SMS Data Discovery Statistics
SMS Exec Process Statistics
SMS Hardware Inventory Statistics
SMS Software Inventory Statistics
Sys Svr Load and IIS Traffic Rpt - Daily
Sys Svr Load and IIS Traffic Rpt - Weekly
System Information Summary
System Start/Stop Time Summary
System Uptime Summary
Top 10 URLs by Traffic, Last Requested URLs
Volume Block Sum for NetWare Svrs
Volume Compression Sum for NetWare Svrs
Volume Directory Entry Sum for NetWare Svrs
Volume Sum for Network Svrs
Windows NT4 Terminal Server Usage
Windows 2000 Terminal Server Usage
WINOSSPI_ExchangeCPU
WINOSSPI_ExchangeMemory
WINOSSPI_MSSQLServerCPU
WINOSSPI_MSSQLServerMemory

Refer to the online help for detailed information on the reports.

Additional Information

Refer to the WINOSSPIReadme.txt file (available on the OVO 7 media kit) and the Online help topic titled "Managing the Microsoft Windows Environment" for more information on the Windows OS SPI.

SPI for UNIX OS

The SPI for Unix Operating Systems is new with OVO 7. But it provides policies that cover nearly all the areas present in the default policies provided by OVO 6.10. See the policy mapping tables below.

Mapping of Logfile Policies

OVO 6	OVO 7
Auditlog(AIX)	N/A
BadLogs(AIX,HP-UX,Solaris)	OSSPI-<OS>-BadLogs (see note)
Boot(HP-UX)	OSSPI-<OS>-Boot (see note)
Cron(Tru64,HP-UX,Linux,Solaris)	Tru64 only (OSSPI-OSF-Cron)
HACMPLogfile(AIX)	N/A
KernelLogs(AIX,HP-UX,Solaris)	OSSPI-<OS>-Dmesg (see note)
Logs(Digital Unix)	OSSPI-OSF-Logs
Lplog(Digital Unix)	OSSPI-OSF-LPlog
Mailqueue(HP-UX)	OSSPI-mailqueue
Messages(Linux)	OSSPI-<OS>-syslog (see note)
OSmsgs(Digital Unix)	OSSPI-OSF-MsgLog
SIALog(Digital Unix)	OSSPI-OSF-SIALog
status.alrmgen	N/A
status.mi	N/A
status.perfldb	N/A
status.rep_server	N/A
status.scope	N/A
status.ttd	N/A
Su(AIX,HP-UX,Solaris)	OSSPI-<OS>-Su (see note)

Mapping of Logfile Policies

OVO 6	OVO 7
Syslog(AIX,HP-UX,Solaris)	OSSPI-<OS>-syslog (see note)

Note: <OS> = Operating Systems

Mapping of Measurement Threshold Policies

OVO 6	OVO 7
agdbserver	N/A
alarmgen	N/A
cpu_util	OSSPI-[MWA|GP|CD]_<OS>_CPU_Load (see note)
disk_util	OSSPI-[MWA|GP|CD]_<OS>_Disk (see note)
inetd	OSSPI-inetdproc
mailqueue length	OSSPI-mailqueue
midaemon	N/A
perfldb	N/A
proc_util	OSSPI-[MWA|GP|CD]_Proc_Tbl
rep_server	N/A
scopeux	N/A
sendmail	OSSPI-mailproc
swap_util	OSSPI-swapmon
swap_util_mwa	OSSPI-[MWA|GP|CD]_Swap_Res
syslogd	OSSPI-syslogproc

Mapping of Measurement Threshold Policies

OVO 6	OVO 7
ttd	N/A

Note: <OS> = Operating System

Web Server SPI

For the Web Server SPI, two policies have changed names as follows:

The IS-Apache_FwdErrorLogEntries policy is now the WebSPI-AP-ErrorLogs policy.

The IS-Apache_httpdProcMon policy is now the WebSPI-AP-ProcMan policy.

Exchange SPI

The following table maps Exchange SPI policies for OVO 7 and OVO 6 for Exchange 5.5 and Exchange 2000.

Exchange 5.5 Policy Mapping

OVO 7	OVO 6
Discovery	
EXSPI-5.5 Exchange Service Discovery	Discover Exchange Topology Tool

OVO 7	OVO 6
Quick Start	
EXSPI Directory Service	

OVO 7	OVO 6
EXSPI-5.5 DS Remaining Updates	EXSPI-0111, EXSPI-05m-DS
EXSPI-5.5 DS Pending Synchronizations	EXSPI-0110, EXSPI-05m-DS
EXSPI Event Log Errors	
EXSPI-5.5 Exchange Application Errors	EXSPI-Exchange Errors
EXSPI General Data Collection	
EXSPI-5.5 Create Coda Data Sources	N/A
EXSPI-5.5 Measurement Data Collector	EXSPI-Measurement Data Collector
EXSPI Information Store	
EXSPI-5.5 IS Public Average Delivery Time	EXSPI-0030, EXSPI-05m-IS
EXSPI-5.5 IS Public Average Local Delivery Time	EXSPI-0031, EXSPI-05m-IS
EXSPI-5.5 IS Public Replication Queue Length	EXSPI-0032, EXSPI-05m-IS
EXSPI-5.5 IS Public Receive Queue Length	EXSPI-0033, EXSPI-05m-IS
EXSPI-5.5 IS Public Send Queue Length	EXSPI-0034, EXSPI-05m-IS
EXSPI-5.5 IS Private Average Delivery Time	EXSPI-0040, EXSPI-05m-IS
EXSPI-5.5 IS Private Average Local Delivery Time	EXSPI-0041, EXSPI-05m-IS
EXSPI-5.5 IS Private Receive Queue Length	EXSPI-0042, EXSPI-05m-IS
EXSPI-5.5 IS Private Send Queue Length	EXSPI-0043, EXSPI-05m-IS
EXSPI-5.5 IS User Connection Count Low	EXSPI-15m-IS, EXSPI-0100
EXSPI- 5.5 Dc-IS Msg Delivery Time	EXSPI-Dc-IS Msg Delivery Time
EXSPI-5.5 Dc-IS Public Msg Vol	EXSPI-Dc-IS Public Msg Vol

OVO 7	OVO 6
EXSPI-5.5 Dc-IS Private Msg Vol	EXSPI-Dc-IS Private Msg Vol
EXSPI Internal Errors	
EXSPI-5.5 Messages	EXSPI-Messages
EXSPI Message Transfer Agent	
EXSPI-5.5 MTA Message Delay	EXSPI-0010, EXSPI-05m-MTA
EXSPI-5.5 MTA Work Queue Length	EXSPI-0011, EXSPI-05m-MTA
EXSPI-5.5 MTA Failed Conversions	EXSPI-0012, EXSPI-1h-MTA
EXSPI-5.5 MTA Connection Message Delay	EXSPI-0013, EXSPI-05m-MTA
EXSPI-5.5 MTA Connection Queue Lengths	EXSPI-0014, EXSPI-05m-MTA
EXSPI-5.5 MTA Failed Outbound Associations	EXSPI-0015, EXSPI-1h-MTA
EXSPI-5.5 MTA Rejected Inbound Associations	EXSPI-0016, EXSPI-1h-MTA
EXSPI-5.5 MTA Rejected Inbound Messages	EXSPI-0017, EXSPI-1h-MTA
EXSPI-5.5 Dc-MTA Message Volume	EXSPI-Dc-MTA Message Volume
EXSPI-5.5 Dc-MTA & IS Queue Lengths	EXSPI-Dc-MTA & IS Queue Lengths
EXSPI Services and Processes	
EXSPI-5.5 Process Monitor	EXSPI-0001, EXSPI-05m-Services and Processes
EXSPI-5.5 Exchange Services	EXSPI-1001, EXSPI-05m-Services and Processes, EXSPI-05m-Map
EXSPI-5.5 Inactive Process Monitor	EXSPI-0002, EXSPI-10m-Services and Processes
EXSPI-5.5 Dc-User Connections	EXSPI-Dc-User Connections

OVO 7	OVO 6
EXSPI Add-Ons	
EXSPI cc:Mail Connector	
EXSPI-5.5-0090	EXSPI-0090
EXSPI-5.5-0091	EXSPI-0091
EXSPI-5.5-0092	EXSPI-0092
EXSPI-5.5-0093	EXSPI-0093
EXSPI-5.5-5m-ccMail Connector	EXSPI-5m-ccMail Connector
EXSPI-5.5-1h-ccMail Connector	EXSPI-1h-ccMail Connector
EXSPI Internet Mail Services	
EXSPI-5.5 IMS Failed Connections	EXSPI-0060, EXSPI-1h-Internet Mail Services
EXSPI-5.5 IMS Rejected Connections	EXSPI-0061, EXSPI-1h-Internet Mail Services
EXSPI-5.5 IMS MTS-IN Queue Length	EXSPI-0062, EXSPI-5m-Internet Mail Services
EXSPI-5.5 IMS MTS-OUT Queue Length	EXSPI-0063, EXSPI-5m-Internet Mail Services
EXSPI-5.5 IMS Queued Inbound	EXSPI-0064, EXSPI-5m-Internet Mail Services
EXSPI-5.5 IMS Queued Outbound	EXSPI-0065, EXSPI-5m-Internet Mail Services
EXSPI-5.5 IMS NDRs Inbound	EXSPI-0066, EXSPI-1h-Internet Mail Services
EXSPI-5.5 IMS NDRs Outbound	EXSPI-0067, EXSPI-1h-Internet Mail Services

OVO 7	OVO 6
EXSPI-5.5 Dc-IMS Message Volume	EXSPI-Dc-IMS Message Volume
EXSPI-5.5 Dc-IMS Queue Length	EXSPI-Dc-IMS Queue Length
EXSPI Lotus Notes Connector	
EXSPI-5.5-0094	EXSPI-0094
EXSPI-5.5-0095	EXSPI-0095
EXSPI-5.5-0096	EXSPI-0096
EXSPI-5.5-0097	EXSPI-0097
EXSPI-5.5-1h-Lotus Notes Connector	EXSPI-1h-Lotus Notes Connector
EXSPI-5.5-5m-Lotus Notes Connector	EXSPI-5m-Lotus Notes Connector
EXSPI News Service	
EXSPI-5.5-0080	EXSPI-0080
EXSPI-5.5-0081	EXSPI-0081
EXSPI-5.5-1h-News Service	EXSPI-1h-News Service
EXSPI-5.5-Dc-News Message Volume	EXSPI-Dc-News Message Volume
EXSPI Transaction Log	
EXSPI-5.5-0005	EXSPI-0005
EXSPI-5.5-0006	EXSPI-0006
EXSPI-5.5-1d-Transaction Log	EXSPI-1d-Transaction Log
EXSPI-5.5-15m-Transaction Log	EXSPI-15m-Transaction Log

OVO 7	OVO 6
EXSPI Advanced	

OVO 7	OVO 6
EXSPI End to End Message Ping	
EXSPI-5.5-1002	EXSPI-1002
EXSPI-5.5-End to End Message Ping	EXSPI-End to End Message Ping
EXSPI-5.5 EXSPI-PingConfig	EXSPI-PingConfig
EXSPI Event Log Warnings and Information	
EXSPI-5.5 Exchange Application Information	EXSPI-Exchange Information
EXSPI-5.5 Exchange Application Warnings	EXSPI-Exchange Warnings
EXSPI Reporter Collection	
EXSPI-5.5-Dc-Exchange Info	EXSPI-Dc-Exchange Info
EXSPI-5.5-Dc-TrackLog Data	EXSPI-Dc-TrackLog Data
EXSPI-5.5-Dc-Mailbox Data	EXSPI-Dc-Mailbox Data
EXSPI-5.5-Dc-Public IS Sum. Data	EXSPI-Dc-Public IS Sum. Data
EXSPI-5.5-Dc-Private IS Sum. Data	EXSPI-Dc-Private IS Sum. Data
EXSPI-5.5-Dc-Public Folder Data	EXSPI-Dc-Public Folder Data

Exchange 2000 Policy Mapping

OVO 7	OVO 6
Discovery	
EXSPI-6.0 Exchange Service Discovery	Discover Exchange Topology Tool

OVO 7	OVO 6
Quick Start	
EXSPI Event Log Errors	
EXSPI-6.0 Exchange System Errors	None
EXSPI-6.0 Exchange Application Errors	EXSPI-Exchange Errors
EXSPI General Data Collection	
EXSPI-6.0 Dc-SMTP Message Volume	EXSPI-Dc-SMTP Message Volume
EXSPI-6.0 Create Coda Data Sources	N/A
EXSPI-6.0 Measurement Data Collector	EXSPI-Measurement Data Collector
EXSPI Information Store	
EXSPI-6.0 IS Public Average Delivery Time	EXSPI-0030, EXSPI-05m-IS
EXSPI-6.0 IS Public Average Local Delivery Time	EXSPI-0031, EXSPI-05m-IS
EXSPI-6.0 IS Public Replication Queue Length	EXSPI-0032, EXSPI-05m-IS
EXSPI-6.0 IS Public Receive Queue Length	EXSPI-0033, EXSPI-05m-IS
EXSPI-6.0 IS Public Send Queue Length	EXSPI-0034, EXSPI-05m-IS
EXSPI-6.0 IS Mailbox Average Delivery Time	EXSPI-0040, EXSPI-05m-IS
EXSPI-6.0 IS Mailbox Average Local Delivery Time	EXSPI-0041, EXSPI-05m-IS
EXSPI-6.0 IS Mailbox Receive Queue Length	EXSPI-0042, EXSPI-05m-IS
EXSPI-6.0 IS Mailbox Send Queue Length	EXSPI-0043, EXSPI-05m-IS
EXSPI-6.0 IS User Connection Count Low	EXSPI-15m-IS, EXSPI-0100

OVO 7	OVO 6
EXSPI-6.0 Dc IS Msg Delivery Time	EXSPI-Dc-IS Msg Delivery Time
EXSPI-6.0 Dc IS Public Msg Vol	EXSPI-Dc-IS Public Msg Vol
EXSPI-6.0 Dc IS Private Msg Vol	EXSPI-Dc-IS Private Msg Vol
EXSPI Internal Errors	
EXSPI-6.0 Messages	EXSPI-Messages
EXSPI Message Transfer Agent	
EXSPI-6.0 MTA Message Delay	EXSPI-0010, EXSPI-05m-MTA
EXSPI-6.0 MTA Work Queue Length	EXSPI-0011, EXSPI-05m-MTA
EXSPI-6.0 MTA Failed Conversions	EXSPI-0012, EXSPI-1h-MTA
EXSPI-6.0 MTA Connection Message Delay	EXSPI-0013, EXSPI-05m-MTA
EXSPI-6.0 MTA Connection Queue Lengths	EXSPI-0014, EXSPI-05m-MTA
EXSPI-6.0 MTA Failed Outbound Associations	EXSPI-0015, EXSPI-1h-MTA
EXSPI-6.0 MTA Rejected Inbound Associations	EXSPI-0016, EXSPI-1h-MTA
EXSPI-6.0 MTA Rejected Inbound Messages	EXSPI-0017, EXSPI-1h-MTA
EXSPI-6.0 Dc-MTA Message Volume	EXSPI-Dc-MTA Message Volume
EXSPI-6.0 Dc MTA & IS Queue Lengths	EXSPI-Dc-MTA & IS Queue Lengths
EXSPI Services and Processes	
EXSPI-6.0 Process Monitor	EXSPI-0001, EXSPI-05m-Services and Processes
EXSPI-6.0 Exchange Services	EXSPI-1001, EXSPI-05m-Services and Processes, EXSPI-05m-Map
EXSPI-6.0 Inactive Process Monitor	EXSPI-0002, EXSPI-10m-Services and Processes

OVO 7	OVO 6
EXSPI-6.0 Dc-User Connections	EXSPI-Dc-User Connections
EXSPI-6.0 Server State	None
EXSPI-6.0 Queue State	None
EXSPI-6.0 Link State	None
EXSPI-6.0 Connector State	None
EXSPI Site Replication Service	
EXSPI-6.0 SRS Remaining Updates	EXSPI-0111, EXSPI-05m-DS
EXSPI-6.0 SRS Pending Synchronizations	EXSPI-0110, EXSPI-05m-DS
EXSPI SMTP	
EXSPI-6.0 SMTP Categorizer Queue Length	EXSPI-0050, EXSPI-5m-SMTP
EXSPI-6.0 SMTP Local Queue Length	EXSPI-0051, EXSPI-5m-SMTP
EXSPI-6.0 SMTP Local Retry Queue Length	EXSPI-0052, EXSPI-5m-SMTP
EXSPI-6.0 SMTP Messages Pending Routing	EXSPI-0053, EXSPI-5m-SMTP
EXSPI-6.0 SMTP Remote Queue Length	EXSPI-0054, EXSPI-5m-SMTP
EXSPI-6.0 SMTP Remote Retry Queue Length	EXSPI-0055, EXSPI-5m-SMTP
EXSPI-6.0 SMTP NDR Percentage	EXSPI-0056, EXSPI-1h-SMTP
EXSPI-6.0 SMTP Outbound Connections Refused	EXSPI-0057, EXSPI-1h-SMTP

OVO 7	OVO 6
EXSPI Add-Ons	

OVO 7	OVO 6
EXSPI cc:Mail Connector	
EXSPI-6.0-0090	EXSPI-0090
EXSPI-6.0-0091	EXSPI-0091
EXSPI-6.0-0092	EXSPI-0092
EXSPI-6.0-0093	EXSPI-0093
EXSPI-6.0-5m-ccMail Connector	EXSPI-5m-ccMail Connector
EXSPI-6.0-1h-ccMail Connector	EXSPI-1h-ccMail Connector
EXSPI Chat Service	
EXSPI-6.0-0835	EXSPI-0835
EXSPI-6.0-0831	EXSPI-0831
EXSPI-6.0-0830	EXSPI-0830
EXSPI-6.0-0834	EXSPI-0834
EXSPI-6.0-0833	EXSPI-0833
EXSPI-6.0-0836	EXSPI-0836
EXSPI-6.0-Dc-Chat Service Clients and Channels	EXSPI-Dc-Chat Service Clients and Channels
EXSPI-6.0-15m-Chat	EXSPI-15m-Chat
EXSPI Conferencing Service	
EXSPI Conference Server	
EXSPI-6.0-0800	EXSPI-0800
EXSPI-6.0-0801	EXSPI-0801
EXSPI-6.0-0802	EXSPI-0802
EXSPI-6.0-Dc-ConfTrends	EXSPI-Dc-ConfTrends

OVO 7	OVO 6
EXSPI-6.0-10m-Conf	EXSPI-10m-Conf
EXSPI Conferencing Bridge	
EXSPI-6.0-0805	EXSPI-0805
EXSPI-6.0-0806	EXSPI-0806
EXSPI-6.0-0807	EXSPI-0807
EXSPI-6.0-10m-ConfBridge	EXSPI-10m-ConfBridge
EXSPI-6.0 MCU Server	
EXSPI-6.0-0804	EXSPI-0804
EXSPI-6.0-0803	EXSPI-0803
EXSPI-6.0-10m-MCU	EXSPI-10m-MCU
EXSPI-6.0-Dc-MCU	EXSPI-Dc-MCU
EXSPI Instant Messaging	
EXSPI-6.0-0842	EXSPI-0842
EXSPI-6.0-0845	EXSPI-0845
EXSPI-6.0-0846	EXSPI-0846
EXSPI-6.0-0841	EXSPI-0841
EXSPI-6.0-Instant Messaging DC	EXSPI-Instant Messaging DC
EXSPI-6.0-1d-Instant Messaging DC	EXSPI-1d-Instant Messaging DC
EXSPI IS Virus Scan (SP1 and later)	
EXSPI-6.0 Virus Scan Messages Quarantined per Sec	None
EXSPI-6.0 Virus Scan Files Cleaned per Se	None
EXSPI-6.0 Virus Scan Queue Length	None

OVO 7	OVO 6
EXSPI-6.0 Virus Scan Files Quarantined per sec	None
EXSPI-6.0 Virus Scan Messages Cleaned per Sec	None
EXSPI Lotus Notes Connector	
EXSPI-6.0-0094	EXSPI-0094
EXSPI-6.0-0095	EXSPI-0095
EXSPI-6.0-0096	EXSPI-0096
EXSPI-6.0-0097	EXSPI-0097
EXSPI-6.0-1h-Lotus Notes Connector	EXSPI-1h-Lotus Notes Connector
EXSPI-6.0-5m-Lotus Notes Connector	EXSPI-5m-Lotus Notes Connector
EXSPI NNTP	
EXSPI-6.0 0058	EXSPI-0058
EXSPI-6.0 1h-NNTP	EXSPI-1h-NNTP
EXSPI Transaction Log	
EXSPI-6.0-0005	EXSPI-0005
EXSPI-6.0-0006	EXSPI-0006
EXSPI-6.0-1d-Transaction Log	EXSPI-1d-Transaction Log
EXSPI-6.0-15m-Transaction Log	EXSPI-15m-Transaction Log

OVO 7	OVO 6
EXSPI Advanced	
EXSPI End to End Message Ping	

OVO 7	OVO 6
EXSPI-6.0-1002	EXSPI-1002
EXSPI-6.0-End to End Message Ping	EXSPI-End to End Message Ping
EXSPI-6.0 EXSPI-PingConfig	EXSPI-PingConfig
EXSPI Event Log Warnings and Information (Exchange 2000)	
EXSPI-6.0 Exchange Application Warnings	EXSPI-Exchange Warnings
EXSPI-6.0 Exchange Application Information	EXSPI-Exchange Information
EXSPI-6.0 Exchange System Information	None
EXSPI-6.0 Exchange System Warnings	None
EXSPI Reporter Collection	
EXSPI-6.0-Dc-Exchange Info	EXSPI-Dc-Exchange Info
EXSPI-6.0-Dc-TrackLog Data	EXSPI-Dc-TrackLog Data
EXSPI-6.0-Dc-Mailbox Data	EXSPI-Dc-Mailbox Data
EXSPI-6.0-Dc-Public IS Sum. Data	EXSPI-Dc-Public IS Sum. Data
EXSPI-6.0-Dc-Mailbox IS Sum. Data	EXSPI-Dc-Private IS Sum. Data
EXSPI-6.0-Dc-Public Folder Data	EXSPI-Dc-Public Folder Data

OVO 7	OVO 6
MBOX Config	EXSPI MBOX Config

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