

The logo features the text "HP OPENVIEW" in a white, serif font against a dark blue background with a subtle globe pattern.The text "Internet Services" is displayed in a white, sans-serif font inside a white rounded rectangular box with a thin black border.

**Release Notes, version A.04.00    Part Number    J5105-88000**

This document, which supplements online Help and other product information, contains important facts about hp OpenView internet services (OVIS).

## Contents

- [Announcements](#)
- [What's New in OVIS 4.0?](#)
- [Updating from a previous version of Internet Services](#)
- [Integration with other OpenView Products](#)
- [OVIS Languages, Product Names, Part Numbers](#)
- [Known Problems / Limitations and Workarounds](#)
- [List of Files and Versions](#)
- [Legal Notices](#)
- [OpenLDAP Public License](#)
- [NetBSD C Library Source](#)

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## Announcements

HP OpenView Internet Services is copyrighted and licensed by Hewlett-Packard Company. Please refer to the licensing agreements on the installation media.

Former VP-IS Passive Monitoring Components for integration with both VPO and VP/Windows have been decoupled from OVIS product with the 4.0 release. These components are now included with the OpenView Operations 7.0 for Windows and UNIX releases.

Future Releases: Windows NT 4.0 support for the OVIS Management Server will end with the next major release of OVIS.

The hp OpenView Internet Services Concepts Guide has been replaced with the hp OpenView Internet Services User's Reference Guide. This new manual is included in both printed form and as an online .pdf Adobe Acrobat file.

We are no longer supporting HP-UX 10.20 for probe systems. HP-UX 10.20 is still supported in the OVIS - NNM integration.

[Back to Contents](#)

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## What's New in OVIS 4.0?

- In an earlier release of OVIS we introduced the HTTP\_TRANS probe. This probe gave you the ability to record a series of steps in a Web-based transaction, then probe the transaction using the same series of steps. In this release, the capability is extended with the introduction of the new Internet Explorer heavyweight probing. This new mode uses the Internet Explorer browser version 5.5 or greater to record and playback a transaction. This mode supports Java Script and gives response times more representative of a user in a browser. The URL and navigation point recording modes have been maintained. These modes require significantly less overhead.
- Proxy and Web Server authentication and redirection have been added to the HTTP/HTTPS probe, as well as many new configuration options.
- With this release you can build customized Service Level Agreements (SLAs) and generate reports for them. You can use the SLA wizard to set up the Service Level thresholds and create a new SLA. SLA data is displayed in the new SLA tab in the Dashboard.
- This release also adds integration between OVIS and Cisco Works Service Management Solution, also known as SMS. This leverages your investment by increasing possible probe locations and adding UDP and VoIP capability to OVIS. You can configure the following OVIS probes to extract data from Cisco SMS: X\_SLAM\_DNS, X\_SLAM\_HTTP, X\_SLAM\_ICMP, X\_SLAM\_UDP, X\_SLAM\_TCP, X\_SLAM\_VoIP (voice over IP). These are available on Windows NT/2000.
- OVIS 4.0 also introduces a new Streaming Media probe for Windows NT/2000 which supports Real Media Player.
- You can create your own custom probes using the custom probes API provided with OVIS. This feature consists of the necessary header files and libraries, a Custom Probes API Guide (CustomProbes.pdf), a wizard for setting up probe definitions, and two sample probes with full source code.  
NOTE: Support for the custom probes feature is NOT available through standard support channels. Technical support for custom probes is only available through the purchase of hp Partner Care Extended (U2461AA). Ask your sale representative for information.
- With this release the Dashboard has been enhanced. Customer segmented reports are now available in the Reports tab when using Restricted Views. The ability to set the start and stop times for the data display is added to help you hone in on a problem. There are new Time Series graphs to show values over time. And Custom Graphs,

which are accessed from the Snapshot page's Graphs button, allow you to create your own custom graphs on any data collected by OVIS.

- New database tables and drill down data now reside in the Reporter database.
- The drilldown data limit, previously set to 100,000 records is now configurable. This data has been moved to the main database and automatically summarized to hourly intervals to allow for faster access and reporting.  
WARNING: The default data retention may cause the amount of data in the Reporter database to increase. Care should be taken to monitor the database size requirements for at least one week after you update to 4.0 to insure maximums are not exceeded.
- Security has been improved in this release by adding the ability to configure the communications from probe to management server to use secure communications, including both server and client certificates. You set this up in the Configuration Manager under **File > Configure > Web Server**.
- To keep your remote probes updated, we've added an automatic remote probe Configuration update capability. This is enabled when a new probe is deployed for the first time or when an existing probe is updated with version 4.0. Then any time there is a change to a probe's configuration on the server, the configuration information will automatically be updated on the remote system.
- Customer's who created custom reports may want to take advantage of the following:
  - \* The probe type field has been added to the Service Group data tables.
  - \* Probe data has been added to the Reporter database at detail, hourly summary, and daily summary levels.

These changes have been made to enhance and speed up reporting.

- Support for Oracle 8.1.7 and SQL Server 2000 has been added.
- Immediate alarming (duration=0) is now supported, and continuous alarms may be configured as well.
- To help track the number of configured probes and aid you in determining the proper number of licenses needed, a new "-info" option has been added to the iopsload program. This option shows you how many 'total logical targets' are configured. This number will help you determine the required number of licenses under OVIS's license-to-use model. You can also view this data directly from the OVIS Configuration Manager by selecting 'Probe Info' from the 'Tools' menu.
- The *hp OpenView Internet Services Concepts Guide* has been replaced by the *hp OpenView Internet Services User's Reference Guide*. This new manual is included as a printed document and is available as a .pdf file (IS\_User\_Ref\_Guide.pdf) with the installed product.
- A new online manual is included with Internet Services to help with SQL and Oracle database configuration (Reporter\_Database\_Config.pdf). This documentation was extracted from the *hp OpenView Reporter Installation and Special Configuration Guide* and included with OVIS for your convenience.

## What's New in the OVIS - NNM Integration?

- Added ability for ovisClientd to query OVIS HTTP server through a proxy agent.
- Added bug fix to ovisEventd to ignore ill-formatted OVIS\_ALARM SNMP traps.

- Added addOVISprobe.ovpl script to aid user additions of custom probe names to OVISNNM integration files.
- Added new probes integrations for IMAP4, STREAM\_MEDIA, X\_SLAM\_DNS, X\_SLAM\_HTTP, X\_SLAM\_ICMP, X\_SLAM\_UDP, X\_SLAM\_TCP, X\_SLAM\_VoIP probes.

## [Back to Contents](#)

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## Updating from a Previous Version of Internet Services

You must update from the 3.5 or 3.6 versions of Internet Services.

NOTE: If the either the management server or remote NT probe installation says it is unable to install "HP Internet Services" service due to permissions problems, see the [Known Problems/Limitations and Workarounds](#) section later in the release notes for possible causes and workarounds.

If you are running hp OpenView Reporter on the same system as the OVIS management server, you must upgrade to Reporter version A.3.01 at the time you install OVIS 4.0.

OVIS 4.0 supports Crystal Reports 8.5 only. So you must either run repcrys or wait overnight for the reporting cycle to run to ensure reports display properly.

Both Unix and Windows NT probes have changed, and must be redeployed as part of the update installation. To help optimize the deployment, there is an InstallShield package included for NT probe deployment. You will also need to Save Configuration in the Configuration Manager. The configuration files will then be automatically distributed for all remote probe systems.

Current drilldown data will be eliminated during installation. We advise updating OVIS during periods when access to drill down data is not required. If you have procedures in place to extract drill down data they should be run before updating OVIS.

The default setting for retaining drill down data may cause the amount of data in the Reporter database to increase. Care should be taken to monitor the database size requirements for at least one week after you update to 4.0 to insure maximums are not exceeded.

## [Back to Contents](#)

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## Integrating with Other OpenView Products

- hp OpenView Reporter A.3.01
- hp OpenView Network Node Manager 6.1, 6.2
- hp OpenView MeasureWare Agent for Windows NT/2000 C.02.55
- hp OpenView Service Information Portal 2.0, 3.0
- hp OpenView Operations 5.X and 6.0 for UNIX

- hp OpenView VantagePoint for Windows 6.10

On systems running OpenView Business Transaction Observer do not install OVIS server components. BTO requires a dedicated system.

Check the OpenView web site for current information on compatibility of OVIS 4.0 with new releases of OVO, NNM and other OpenView products.

[Back to Contents](#)

## OVIS Languages, Product Names, Product Numbers

This release of OVIS software is currently available in English only.

Product Number	Product Name
J5105AA	OV Internet Services 4.0 Media
J5106AA	OV Internet Services LTU
J5107AA	OV Internet Services 25 Target Pack LTU
J5108AA	HP OV Internet Services 4.0 Manual

[Back to Contents](#)

## Known Problems / Limitations and Workarounds

The following areas of Internet Services are either incomplete or known to not function as expected in the A.04.00 release.

- **Problem:** If you encounter either of the following problems:  
 Popup boxes indicating that processes (particularly the probe processes or scheduler) are terminating abnormally due to initialization errors, or  
 Problems with Web Transaction Recorder transactions recorded in Internet Explorer mode  
**Workaround:** All probes run under the "HP Internet Services" service, which by default is configured to run as the System account. If you encounter these problems, reconfigure the HP Internet Services "System Account" setting by selecting "This account:" and entering the account (user name) and password that recorded the transaction. This applies to both the Management Server and remote probe systems. This configuration information is accessed on Windows NT 4.0 via Control Panel > Services > Startup selection, and on Windows 2000 via the Computer Management > Services and Applications > Services > Properties > Log On selection.
- **Problem:** If the log on account was changed for the "HP Internet Services" service, the installer may stop and report that it is unable to install the "HP Internet Services" service due to permission problems.  
**Workaround:** In this case, go to the Services control applet and change the log on account back to "System Account" and check "Allow Service to Interact with Desktop". Then press "Retry" in the installer dialog that reported this problem. After the installation has been completed, change the log on account back to the previous setting.
- **Concurrency Changes Recommended for heavyweight probing:** The Web Transaction Recorder in Internet Explorer mode is termed "heavyweight probing" because it programatically runs Internet Explorer 5.5 to do its probing. By default the number of

probes run at any one time (concurrency) is 32. When using heavyweight probing it is recommended to reduce this concurrency to a more reasonable number (try between 2 and 10). Because this is a global setting, you must be careful to choose a concurrency that will not overload the system, but will run probes with a high enough concurrency to complete in the probe interval you have specified. You must also be sure to allow some slack time for exceptional situations where probes are running longer than usual and take their full "timeout" allocation. This concurrency can be configured in the Configuration Manager in the Probe Location > Edit Network dialog in the Number of concurrent requests field.

If you wish to run both heavyweight and lightweight transactions from the same probe location, and use different concurrencies for the two groups, you can use the Probe Location Info "New Connection" button to create a new Network Connection Name for the same network that is already defined. Then you can set the concurrencies for the two network names, and assign the lightweight transactions to one (with the higher concurrency) and the heavyweight transactions to the other (with lower concurrency). Note that all probes for one network will have to complete before the probes for the other network can begin, so some testing is required to make sure the two sets of probes will be able to complete within the defined probe interval.

- **Remote Probes redeployed after OVIS 4.0 installed:** If you have remote probes, you will need to redeploy them after the OVIS 4.0 release is installed.
- **R555014890:** OVIS 4.0 and Service Information Portal 2.0 or 3.0 integration does not work. Change request B553002229 (NSMfc31846) has been filed against SIP 3.0 regarding this problem.
- **R555014847:** Attempt to print User's Reference Guide or any other .pdf document from Acrobat Reader causes an abort.  
**Workaround:** Go to the Adobe web site (<http://www.adobe.com/products/acrobat/>), download a new copy of Acrobat Reader, and install it.
- **R555014861:** If OV Internet Services version 3.0, 3.5, or 3.6 was installed before Reporter A.3.01, then repcrs will be scheduled to run at 1:00 am, causing the report cycles to run before the gather and gathercoda processes run. This means that the data for the previous day will not be included in the reports. Note this is only a problem if the Reporter product is installed on the same system as the OVIS management server.  
**Workaround:** Change the Schedule in the Reporter User Interface to schedule repcrs at 2:00 am instead of 1:00 am.
- **R555014727:** The Destination Folders dialog sometimes displays the incorrect information during installation. When you have an existing application installed (OV Reporter, OV Internet Services, Web Transaction Observer, OV Performance Agent), plus an OV Operations Agent deployed to this system, the installer sometimes doesn't display the correct directory in the Destination Folders dialog.  
**Workaround:** Ignore the message, it actually will install to the application's correct, existing directory.
- **Problem:** If you are using the OVO for UNIX (VPO) Service Navigator integration with VPO 6.x, views are not properly synchronized because the necessary VPO delete function does not work. This is not a problem on VPO 5.3.  
**Required VPO patches:** PHSS\_22762 and PHSS\_22696  
These patches make the -replace command work so that in VPO 6.0 the OVIS services are replaced properly.
- **R555008406:** Windows 2000 Dial-up probe fails.  
**Workaround:** When selecting a Dial-up Network connection, you must use the Dial-Up Network Entry. If Dial-Up Information is not available, create new a Dial-up phone book entry and refer to this name in Dial-Up

Network Entry section.

- **R555008783:** Message in status.reporter file: "ERROR: System Data Source "Reporter" not found in ODBC or could not be created". The Reporter database (<install dir>\data\datafiles\Reporter.mdb) might or might not be created.  
**Workaround for customers using MS Access Database:** These steps MUST be followed in order.

1. Open the **Control Panel>Services>select Reporter Service** and press the **Stop** button.
2. Open **Control Panel > ODBC Data Sources**. Choose the **System DSN** tab and remove the Reporter entry.
3. It is strongly recommend that you reboot the system now.
4. Open the **Control Panel > ODBC Data Sources**. Choose the **System DSN** tab.
5. Select **Add, Microsoft Drivers (\*.MDB)**, and click the Finish button. At the Data Source Name, type Reporter. Of the Options, choose **Select the Database**.

Warning!! DO NOT CREATE A NEW REPORTER.MDB, IF THE DEFAULT REPORTER.MDB WHICH WAS INSTALLED DURING THE INSTALLATION PROCESS IS STILL UNDER THE DIRECTORY <install dir>\DATA\DATAFILES\REPORTER.MDB.

6. Accept other default settings.
7. Close the **ODBC Admin Tools** and restart the **Reporter Service**.

You should see the Reporter establishing a connection with the Reporter.MDB and logging in.

- **Problem:** Whenever an OVO for Windows or UNIX agent is installed after OVIS, you must reboot in order to ensure that alarm forwarding works correctly.
- **R555014853:** Japanese Characters in the Dashboard are incorrect with Netscape 4.7  
**Workaround:** The workaround can also be applied to other language sets. In versions of Netscape earlier than 6, Japanese characters can be incorrect or appear as blocks. To fix this, inside of Netscape go to **Edit->Preferences**. Then in the Preferences window select the tree item Fonts under Appearance.

In the Fonts window select the language that you are having problems with, in this case Japanese. Make sure that the fonts selected are appropriate for the encoding. Then change the setting for document fonts from "Use document-specified fonts, including Dynamic Fonts" to "Use my default fonts, overriding document-specified fonts". Click OK and refresh the screen. Repeat as necessary for additional encodings.

After the above change the Japanese characters will appear correctly in Dashboard reports.

- **R555014404:** When NNM and OVIS English versions are both running on a Japanese system only the English text is viewable in the NNM Event Browser.

Japanese text is either garbage or missing. There is no resolution at this time.

## NNM Integration Component:

There are several known minor issues with the OVIS/NNM integration package, most with simple workarounds.

- **Problem:** ODBC Roll Forward/Backward Errors  
**Cause:** Occasionally, stopping the NNM services (ovstop) while ovw is running can later cause the database to fail to start with error messages stating that "Roll Forward" or "Roll Backward" operations failed. This problem has only been seen so far on Windows NT. The problem is a corrupt database log file. This problem has been improved with the new Solid Server (3.51) shipped with NNM 6.2, however the problem has still been observed only at lesser frequency.  
**Workaround:** Run the command: `$OV_BIN/ovisdb.ovpl -cl -restart`  
The database should then be running normally, without loss of data.
- **Problem:** ODBC Cannot Find Source "tcpip 2691"  
**Cause:** Occasionally, the database does not shutdown properly. This is also believed to be related to running ovw sessions when ovstop is issued.  
**Workaround:** Run the command: `$OV_BIN/ovisdb.ovpl -restart`  
to properly shutdown and restart the database, without loss of data.
- **Problem:** Symbol Display  
**Cause:** There are a few scenarios where commands are stored to the command database, but are not performed on an open map. This happens, for example, if the persistence level is not set to "All Levels" (see the *Internet Services User's Reference Guide*), or if the node is not managed by NNM. The NNM menu choice **>Internet Services—> Rebuild Internet Services Symbols** causes NNM to delete all symbols that have the "ovisIsOVIS" field set TRUE, and then reperforms all commands in the command database. This ensures that the map reflects what is currently in the database.  
**Workaround:** There are mechanisms built into the integration package to recover missed configuration changes and alarms. However, if you suspect that NNM is not synchronized with OVIS, the script `$OV_BIN/ovisclean.ovpl` completely clears the command database and causes NNM to pull all of the latest configuration and alarm data. The script also rebuilds all symbols. Before running `ovisclean.ovpl`, make sure to shut down any running OVW sessions.
- **Problem:** Multiple Service Groups of the Same Type do not display correctly.  
**Cause:** Because service symbols are created by type (HTTP, DNS, FTP, etc.) no distinction is made between service groups of the same type for a given target node. In other words, if you configure



two service groups, such as SG1 and SG2, that are both HTTP service groups, and both service groups contain the target node foo.com, you can see that on the NNM map the node symbol for foo.com contains only one HTTP service symbol. All alarm symbols for both SG1 and SG2 are created under this one HTTP service symbol. More importantly, if you later delete one of these service groups, the NNM integration package responds as though the entire HTTP service is being deleted, and removes the HTTP symbol under foo.com.

**Workaround:** Run the ovisclean.ovpl script to restore the remaining service group.

- **Problem:** Changing Customer Name in OVIS is not automatically updated by NNM. As a result, events targeted to that customer are logged as errors, and the symbol reflecting the customer's old name is not updated.

**Workaround:** Run the ovisclean.ovpl script to force the NNM integration to re-establish the customer under the new name.

- **Problem:** Inconsistent Customer Views Status Propagation between NNM and OVIS.

**Cause:** In cases where Customer Views is installed on the NNM node that is integrated with OVIS, there is inaccurate status propagation to customer symbols displayed in Customer Views symbols. For any OVIS target node that serves more than one customer, the status propagation to the node reflects the status of all the customers served by the node. However, if a customer symbol in Customer Views has that node beneath it on the hierarchy (for example, in the "Servers" container), the status of the customer symbol reflects the status of *all* customers served by that node. This is due to the fact that OVIS integration creates a child symbol for each customer served by a given node, and thus the node's status is determined by the status of all its customers. Because the customer symbol in Customer Views obtains its status from the node, the status for a given Customer Views customer symbol becomes a function of all customers served by the node. The problem arises from inconsistent modeling of customer, service, and targets between NNM and OVIS.

**Workaround:** At this time there is no fix or workaround for this problem.

[Back to Contents](#)

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## List of Files and Versions

List of Installed Files for Internet Services A.04.00.

In directory <installation directory>\bin\

<b>File</b>	<b>Binary Versions</b>	<b>ASCII Versions</b>	<b>Feature</b>
CFX2032.DLL	3.0.33.0		Chart FX Library, Software FX, Inc.
CODA_ACCESS.DLL	1.7.0.2	A.07.02	Library to communicate with OV Operations 7 Agent
DCE.DLL			datacomm library Dascom, Inc.
DLLVERSIONS.EXE	1.3.1.0	A.3.01	Finds and lists dlls and versions that Reporter uses
Exportlops.exe	1.4.0.0	A.04.00	Builds The Configuration Files
GATHER.EXE	1.3.1.0	A.3.01	OpenView Performance Agent data gatherer
GATHERCODA.EXE	1.3.1.0	A.3.01	OVO for Windows 7 performance subagent data gatherer
HPMXLICOBJECT.DLL	3.50.20706.2		License Library
HPMXLICOBJECTRES.DLL	3.50.20707.3		License Library
lopsCollector.exe	1.4.0.0	A.04.00	Summarizes Probe Data
lopsConfig.exe	1.4.0.0	A.04.00	Configuration Manager
lopsDrillCfg.exe	1.4.0.0	A.04.00	TraceTable Utility
IOPSLoad.exe	1.4.0.0	A.04.00	Loads/Saves Configuration Information in XML.
IOPSMaint.exe	1.4.0.0	A.04.00	Summarizes Detail Data
LLBSERVER.EXE	2.5.2.12		
Newlops.exe	1.4.0.0	A.04.00	Creates OVIS Specific Tables in Database
OVBBCBASE.DLL	2.5.2.12		Datacomm library
OVBBCHTTP.DLL	2.5.2.12		Datacomm library
OVBBCIO.DLL	2.5.2.12		Datacomm library
OVBBCNET.DLL	2.5.2.12		Datacomm library
OVBBCSSL.DLL	2.5.2.12		Datacomm library
OVBBCTHREAD.DLL	2.5.2.12		Datacomm library
OVBBCXML.DLL	2.5.2.12		Datacomm library
OVCONSNOTIFY.DLL	1.2.0.0		OV Operations library
ov.dll			NNM Library for SendtoNNM
ovsnmp.dll			NNM Library for SendtoNNM
ovutil.dll			NNM Library for SendtoNNM
ovw.dll			NNM Library for SendtoNNM

perfstat.exe		19.0.0.2	Status Utility for Services and Files
removeops.dll		A.04.00	Uninstall dll for Internet Services
PTHREAD.DLL			datacomm library Dascom, Inc.
REPCRY.S.EXE	1.3.1.0	A.03.01	Reporter report generator
RELOAD.EXE	1.3.1.0	A.3.01	Loads report templates from text file
REPMAINT.EXE	1.3.1.0	A.3.01	Reporter database maintenance
REPORTSVC.EXE	1.3.1.0	A.3.01	Reporter service
REPORTSRVCAT.DLL	0.2.73.0		Reporter service Message Catalog
sendtonnm.exe		A.04.00	Sends Alarms for SNMP Alarm Destinations
TRC.DLL	1.7.0.0		Tracing library
TRCMSGS.DLL	3.0.3.2		Tracing library
WebRecorder.exe		A.04.00	HttpTransProbe and GUI Interface
XERCES-C_1_5_1.DLL	1.5.1.0		Xerces XML parser library
xerces-c_1_0.dll		1.0.0.0	Apache Library © Apache Software
IOpsSlaEvaluator.exe		A.04.00	Evualates SLOs, SLAs, and Conformance

In directory <installation directory>\probes

<b>File</b>	<b>Binary Versions</b>	<b>ASCII Version</b>	<b>Feature</b>
Config.dat			Contains Probe Configurations
OvisApi.dll	1.4.0.0	A.04.00	Internet Services API
dig.exe			DNS Tool
probeAnyTcp.exe	1.4.0.0	A.04.00	TCP Probe
probeDhcp.exe	1.4.0.0	A.04.00	DHCP Probe
probeDial.exe	1.4.0.0	A.04.00	Dial Probe
probeDns.exe	1.4.0.0	A.04.00	DNS Probe
probeFtp.exe	1.4.0.0	A.04.00	FTP Probe
probeHttp.exe	1.4.0.0	A.04.00	HTTP Probe
probeHttpTrans.exe	1.4.0.0	A.04.00	HTTPTrans Probe
probeHttpTrans2.exe	1.4.0.0	A.04.00	Heavy Weight HTTPTrans Probe
probelcmp.exe	1.4.0.0	A.04.00	ICMP Probe

probelmap.exe	1.4.0.0	A.04.00	IMAP Probe
probeLdap.exe	1.4.0.0	A.04.00	LDAP Probe
probeNntp.exe	1.4.0.0	A.04.00	NNTP Probe
probeNtp.exe	1.4.0.0	A.04.00	NTP Probe
probePop3.exe	1.4.0.0	A.04.00	POP3 Probe
probeRadius.exe	1.4.0.0	A.04.00	Radius Probe
probeSLAM.exe	1.4.0.0	A.04.00	Cisco SLM integration Probe
probeSMedia.exe	1.4.0.0	A.04.00	Streaming Media Probe
probeSmtplib.exe	1.4.0.0	A.04.00	SMTP Probe
probeWap.exe	1.4.0.0	A.04.00	WAP Probe
scheduler.exe	1.4.0.0	A.04.00	Probe Scheduler
Trusted.txt			SSL Certificate information
xerces-c_1_0.dll		1.0.0.0	Apache Library © Apache Software

In directory <installation directory>\newconfig\

File	Binary Versions	ASCII Version	Feature
remote_probes_install.exe	1.4.0.0	A.04.00	Remote Probes Install Package

In directory <installation directory>\HPOV\_IOPS\cgi-bin

File	Binary Versions	ASCII Version	Feature
Analyzer.exe	1.4.0.0	A.04.00	Engine for On Demand Reports
Replops.exe	1.4.0.0	A.04.00	Dashboard Report Generator
Analyzertest.exe	1.4.0.0		Analyzer test program
Analyzertest.htm			Analyzer test web page

In directory <installation directory>\HPOV\_IOPS\isapi

File	Binary Versions	ASCII Version	Feature
DistribMgrExt.dll	1.4.0.0	A.04.00	Auto Config Deploy Library
measEvent2.dll	1.4.0.0	A.04.00	Receives/Inserts data into TraceTable
alarmEvent.dll	1.4.0.0	A.04.00	Processes Incoming Data for SLO Violations.

In directory <installation directory>\SDK\Internet Services\

File	Binary Versions	ASCII Version	Feature
ProbeWizard.exe	1.4.0.0	A.04.00	Configuration Interface for Custom Probes

In directory <windows>\system32

File	Binary Version	Description
ADSSECURITY.DLL	1.0.0.1	ADSI SDK Resource Kit library
ASYCFILT.DLL	2.40.4275.1	OLE for Windows library
ATL.DLL	3.0.8449.0	ATL Module for Windows (ANSI)
CFX2032.DLL	3.0.33.0	
COMCAT.DLL	4.71.1460.1	Microsoft Component Category Manager Library
CTL3D32.DLL		Microsoft 3D Windows Controls
DBMSLPCN.DLL	2000.80.382.0	Client-Side Local Inter-Process Communication (LPC) Net Library
DBMSSHRN.DLL	2000.80.194.0	ConnectTo RPC Net Library
DBNETLIB.DLL	2000.80.380.0	Winsock Oriented Net DLL for SQL Clients
DZIP32.DLL	3.0.0.15	Inner Media DynaZIP-32 ZIP
IMPROV.DLL	2000.80.382.0	
INETWH32.DLL	1.10.1.1	Blue Sky Software
LIBARM32.DLL	3.00.00.00	Application Response Measurement Library (stub)
MFC42.DLL	6.0.8447.0	MFCDLL Shared Library - Retail
MSCPXL32.DLL		Microsoft ODBC Code Page Translator
MSSTKPRP.DLL	6.0.81.69	msprop32.ocx
MSVCIRT.DLL	6.0.8168.0	Microsoft C++ Runtime Library
MSVCP60.DLL	6.0.8972.0	Microsoft C++ Runtime Library
MSVCRT.DLL	6.0.8397.0	Microsoft C Runtime Library
MSVCRT20.DLL	2.10.00.00	Microsoft C Runtime Library
MSVCRT40.DLL	4.20.00.6172	Microsoft C Runtime Library Forwarder
ODBC32.DLL	3.520.7326.00	Microsoft ODBC Driver Manager
ODBC32GT.DLL	3.520.7326.00	Microsoft ODBC Driver Generic Thunk
ODBCAD32.EXE		Microsoft ODBC Control Panel Startup
ODBCBCP.DLL	2000.80.380.0	Microsoft BCP for ODBC
ODBCCP32.CPL	3.520.7326.00	Microsoft ODBC Control Panel Device
ODBCCP32.DLL	3.520.7326.00	Microsoft ODBC Administrator
ODBCCR32.DLL	3.520.7326.00	Microsoft ODBC Cursor Library
ODBCINT.DLL	3.520.7326.00	Microsoft ODBC Localized Resource DLL
ODBCJI32.DLL	3.520.7326.00	Microsoft ODBC Desktop Driver Pack
ODBCJT32.DLL	4.0.6019.0	Microsoft ODBC Desktop Driver 3.5
ODBCTL32.DLL	3.51.1029.00	Microsoft ODBC Helper Function DLL
OLEAUT32.DLL	2.40.4275.1	OLE for Windows library
OLEPRO32.DLL	5.0.4275.1	Microsoft OLE Property Support

PDH.DLL	5.0.2174.1	Performance Data Provider Helper
PSAPI.DLL	5.0.2134.1	Process Status Helper
RACLS.EXE	2.0.31.0	
RHMMPLAY.DLL	2.0.0.0	WinHelp Video Player 32-bit
SKY32V3C.DLL	1.0.0.0	Creative Development Image Library
SQLSRV32.DLL	2000.80.380.0	Microsoft SQL Server ODBC Driver
SQLUNIRL.DLL	2000.80.380.0	String Function .DLL for SQL Enterprise Components
VBAJET32.DLL		Visual Basic for Applications Development Environment - Expression Service Loader
VBAR332.DLL		Visual Basic for Apps Expression Svc

In directory C:\Program Files\Microsoft SQL Server\MSSQL\$OVOPS\binn

File Name	Binary Version	Description
ADSSECURITY.DLL	1.0.0.1	ADSI SDK Resource Kit library
CMDWRAP.EXE	2000.80.382.0	SQL Login Integration Procedures DLL
COMNEVNT.DLL	2000.1.10.0	Common Event Model DLL
DBGHELP.DLL	5.0.2195.1	Windows Image Helper
MSDBI.DLL	6.10.8226.0	Microsoft (R) VC Program Database
ODSOLE70.DLL	2000.80.382.0	OleAut driver DLL containing SQL Server sp_OA extended stored procedures
OPENDS60.DLL	2000.80.194.0	SQL Open Data Services DLL
SEMMAP.DLL	2000.80.194.0	SEMMAP Resource DLL
SEMNT.DLL	2000.80.382.0	Window NT Specific DLL for SQL Enterprise Manager
SQLAGENT.DLL	2000.80.382.0	SQL Server Agent event strings DLL
SQLAGENT.EXE	2000.80.382.0	Microsoft SQL Server Agent
SQLATXSS.DLL	2000.80.382.0	SQLServerAgent Active Scripting subsystem DLL
SQLBOOT.DLL	2000.80.194.0	
SQLCMDSS.DLL	2000.80.382.0	SQLServerAgent Command Execution subsystem DLL
SQLCTR80.DLL	2000.80.382.0	SQL Server Performance Acquisition DLL
SQLIMAGE.DLL	5.0.2031.1	Windows NT Image Helper
SQLMAINT.EXE	2000.80.382.0	SQL Server Database Maintenance Plan Wizard Executor
SQLREPSS.DLL	2000.80.382.0	SQLServer Agent Replication Subsystem Library
SQLRESLD.DLL	2000.80.382.0	SQL Enterprise Manager Reesource DLL Loader
SQLSERVR.EXE	2000.80.384.0	SQL Server Windows NT
SQLSNMP.DLL	2000.80.194.0	MS SQL SNMP Extension DLL
SQLSVC.DLL	2000.80.382.0	Service Layer DLL for SQL Enterprise Workbench
SSMSAD70.DLL	2000.80.194.0	ADSP Net DLL for SQL Server
SSMSLPCN.DLL	2000.80.382.0	Client-Side Local Inter-Process Communication (LPC) Net Library
SSMSRP70.DLL	2000.80.382.0	ListenOn RPC Net Library

SSMSSH70.DLL	2000.80.194.0	ListenOn RPC Net Library
SSMSVI70.DLL	2000.80.194.0	ListenOn VINES Net Library
SSNETLIB.DLL	2000.80.382.0	Winsock Oriented Net DLL for SQL Server
SSNMPN70.DLL	2000.80.194.0	Named Pipes Net DLL for SQL Server
UMS.DLL	2000.80.382.0	SQL User Mode Scheduler DLL
XPLOG70.DLL	2000.80.382.0	SQL Login Integration Procedures DLL
XPQUEUE.DLL	2000.80.382.0	SQL Server Replication Extended Procs for Queued Updating Subscribers
XPREPL.DLL	2000.80.382.0	SQL Server Replication Extended Stored Procedures Library
XPSQLBOT.DLL	2000.80.194.0	
XPSTAR.DLL	2000.80.382.0	Extended Stored Procedure DLL for SQL Enterprise Manager
SQLDATA.DLL	2000.80.382.0	SQL Sorting Data DLL
SQLSORT.DLL	2000.80.382.0	SQL Sorting DLL

In directory C:\Program Files\Microsoft SQL Server\80\Tools\binn

<b>File Name</b>	<b>Binary Version</b>	<b>Description</b>
AXSCPHST.DLL	2000.80.194.0	Active Scripting Host for SQL
BCP.EXE	2000.80.382.0	SQL bulk copy tool
CLDTCSTP.EXE	2000.80.194.0	SQL Server DTC setup wrapper
CNFGSVR.EXE	2000.80.194.0	SQL Server Server Configuration
CNVREM.DLL	2000.80.194.0	RPC wrapper DLL for two machine version upgrades
CNV SVC.EXE	2000.80.194.0	RPC Service for two machine version upgrades
CUSTTASK.DLL	2000.80.382.0	DTS Custom Task implementation file
DCOMSCM.EXE	2000.80.194.0	SQL Server DCOM SCM Object
DTCSETUP.EXE	4.71.1015.0	MS DTC stand-alone setup
DTSFFILE.DLL	2000.80.384.0	DTSFlatFile Rowset Provider DLL
DTSPKG.DLL	2000.80.382.0	DTSPackage Service Provider DLL
DTSPUMP.DLL	2000.80.382.0	DTSDataPump Service Provider DLL
DTSRUN.EXE	2000.80.382.0	DTS Package CommandLine Execution
OSQL.EXE	2000.80.382.0	SQL query tool
PFCLNT80.DLL	2000.80.382.0	SQL Server Profiler DLL
SCM.EXE	2000.80.382.0	SQL Setup SCM
SQLRESLD.DLL	2000.80.382.0	SQL Enterprise Manager Resource DLL Loader
SEM MAP.DLL	2000.80.194.0	SEM MAP Resource DLL
SEMNT.DLL	2000.80.382.0	Window NT Specific DLL for SQL Enterprise Manager
SQDEDEV.DLL	2000.80.384.0	SQL Setup Enumeration APIs
SQLADHLP.EXE	2000.80.382.0	Microsoft SQL Server Active Directory Helper Service
SQLDMO.DLL	2000.80.382.0	Distributed Management Objects OLE DLL for SQL Enterprise Manager
SQLMANGR.EXE	2000.80.382.0	SQL Server Service Manager

SQLREDIS.EXE	5.0.2919.6304	Win32 Cabinet Self-Extractor
SQLRESLD.DLL	2000.80.382.0	SQL Enterprise Manager Resource DLL Loader
SQLSVC.DLL	2000.80.382.0	Service Layer DLL for SQL Enterprise Workbench
SQLVDI.DLL	2000.80.194.0	Virtual Device Interface for BACKUP/RESTORE
SVRNETCN.DLL	2000.80.382.0	SQL Server Network Utility DLL
SVRNETCN.EXE	2000.80.382.0	SQL Server Network Utility EXE
W95SCM.DLL	2000.80.194.0	SQL Server Windows 95 Lite SCM
MSGPROX.DLL	2000.80.382.0	SQL Server Proxy Message Datasource Provider

In directory C:\Program Files\Microsoft SQL Server\80\Tools\bin\Resources

File Name	Binary Version	Description
DISTRIB.EXE	2000.80.194.0	SQL Server Replication Distribution Agent
IMPROV.DLL	2000.80.382.0	Import OLE DB Provider for SQL Server
MERGETXT.DLL	2000.80.382.0	SQL Server Text Merge Resolver
RDISTCOM.DLL	2000.80.382.0	SQL Server Replication Distribution Library
REPLAGNT.DLL	2000.80.194.0	SQL Server Replication Agent Library
REPLDIST.DLL	2000.80.194.0	SQL Server Replication Distributor Provider
REPLDP.DLL	2000.80.382.0	SQL Server Replication Internal Distributor Provider
REPLDSUI.DLL	2000.80.194.0	SQL Server Directory Service UI Handler
REPLDTS.DLL	2000.80.194.0	SQL Server Replication OLEDB provider Library
REPLERRX.DLL	2000.80.194.0	Microsoft SQL Replication Errors Control 8.0
REPLMERG.EXE	2000.80.382.0	SQL Server Replication Merge Agent
REPLPROV.DLL	2000.80.382.0	SQL Server Replication Merge Provider
REPLPROX.DLL	2000.80.194.0	SQL Server Proxy Merge Replication Provider
REPLREC.DLL	2000.80.382.0	SQL Server Replication Merge Reconciler
REPLSUB.DLL	2000.80.382.0	SQL Server Replication Subscriber Provider
REPLSYNC.DLL	2000.80.194.0	SQL Server Replication Synchronization Manager Handler
RINITCOM.DLL	2000.80.382.0	SQL Server Replication Snapshot Library
SNAPSHOT.EXE	2000.80.382.0	SQL Server Replication Snapshot Agent
SPRESOLV.DLL	2000.80.382.0	SQL Server Replication Stored Procedure Merge Resolver
SQLDISTX.DLL	2000.80.382.0	Microsoft SQL Distribution Control 8.0
SQLINITX.DLL	2000.80.382.0	Microsoft SQL Snapshot Control 8.0
SQLMERGX.DLL	2000.80.382.0	Microsoft SQL Merge Control 8.0
SQLRESLD.DLL	2000.80.382.0	SQL Enterprise Manager Resource DLL Loader
SSRADD.DLL	2000.80.382.0	SQL Server Additive Conflict Resolver
SSRAVG.DLL	2000.80.382.0	SQL Server Averaging Conflict Resolver
SSRDOWN.DLL	2000.80.382.0	SQL Server Download Only Resolver
SSRMAX.DLL	2000.80.382.0	SQL Server Maximum/Latest Conflict Resolver
SSRMIN.DLL	2000.80.382.0	SQL Server Minimum Conflict Resolver
SSRPUB.DLL	2000.80.382.0	SQL Server Subscriber Always Wins Conflict Resolver



SSRUP.DLL	2000.80.382.0	SQL Server Upload Only Resolver
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In directory <windows>\system32 (Crystal Reports Version 8.5)

File Name	Binary Version	Description
CRBAS14.DLL	3.50.0.0	MERANT Base ODBC DLL
CROR815.DLL	3.60.0.13	MERANT Oracle8 ODBC Driver
CRPAIG80.DLL	8.0.1.3	Crystal Reports Text Object Support
CRPE32.DLL	8.5.0.217	Crystal Reports Print Engine
CRUTL14.DLL		MERANT Utilities DLL
EXLATE32.DLL	8.5.0.217	Crystal Reports HTML Translator
IMPLODE.DLL		Crystal Reports Compression Library
P2SODBC.DLL	8.5.0.72	Crystal Reports Physical Server DLL

In directory \Program Files\Seagate Software\Shared (Crystal Reports Version 8.5)

File Name	Binary Version	Description
PG32CONV.DLL		Crystal Reports Auxiliary Chart DLL
CRTSLV.DLL	8.5.0.144	TSLV Module
EXPORTMODELLER.DLL	8.5.0.35	ExportModeller Module
S2SQLPRS.DLL	8.0.0.4	SQL Expression Editor Parser
SSCSDK80.DLL	2.2.9.4	Crystal Reports Chart Engine

In directory <windows>\crystal (Crystal Reports Version 8.5)

File Name	Binary Version	Description
P2IXBSE.DLL	8.0.100.1	Crystal Reports Physical Database DLL
P2LODBC.DLL	8.5.0.19	Crystal Reports Physical Server DLL
U252000.DLL	8.0.0.0	Year 2000 Support DLL
U25DTS.DLL	8.0.0.0	Date Time String Export Destination DLL
U2DDISK.DLL	8.5.0.1	Disk Export Destination DLL
U2FHTML.DLL	8.5.0.77	HTML Export Format DLL
U2L2000.DLL	8.0.0.0	User Function Library for Year 2000 Support
U2LCOM.DLL	8.0.0.0	User Function Library for COM Manager
U2LDTS.DLL	8.0.0.0	User Function Library for Date Time String Export
U2LEXCH.DLL	8.0.0.1	User Function Library for Exchange
U2LFINRA.DLL	8.0.0.1	User Function Library for Financial Calculations
U2LSAMP1.DLL	8.0.0.1	User Function Library Sample

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[Back to Contents](#)

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[Back to Contents](#)