

HP OpenView Smart Plug-in for Oracle Database

Product brief



The HP OpenView Smart Plug-in (SPI) for Oracle® helps administrators efficiently monitor distributed enterprise-wide Oracle Database and Oracle RAC (real application cluster) environments from a central, best-in-class console. The SPI helps you increase RDBMS availability and performance, visualize capacity shortages and trends and lower the overall cost of maintaining your Oracle Database and RAC environment. To maximize your return on investment, HP provides high-quality software services that address all aspects of your software application life-cycle needs and align with your business goals.

Key features and benefits

- **Proactively reduce Oracle database down time** — The Oracle SPI, with more than 150 predefined event conditions that are easily deployed to Oracle instances, works to proactively identify database problems before they affect end-users. This capability is also applicable to the Oracle RAC environment. For example, the Oracle SPI is able to monitor the RAC setup by inspecting the Global Cache for things like corrupted cache blocks, lost blocks, and timeouts, to detect any potential affect on end-user performance.
- **Get answers, not just data** — The Oracle SPI informs administrators of the tasks to perform to optimize their Oracle database environment. Rather than providing thresholds for raw data such as Total Block Reads, the SPI provides thresholds for ratios and percentages so administrators know which commands or actions to subsequently use. The SPI also monitors SQL statements to identify resource-intensive, inefficient, and problematic SQL statements to facilitate SQL query optimization and tuning.
- **Facilitate fast recoveries** — The Oracle SPI reduces mean time to recovery (MTTR) through intuitive instructional text, over 30 automatically launched snapshot reports, and a context-sensitive launch of Oracle database administrative utilities such as SQL*DBA and Server Manager.
- **Diagnose, plan, and track service levels with flexibility** — The Oracle SPI integrates with HP OpenView Performance Manager and reporting tools such as HP OpenView Reporter and HP OpenView Performance Insight to provide a variety of graphical formats to display both real-time and historical information.

The HP OpenView Smart Plug-in for Oracle helps administrators efficiently monitor distributed enterprise-wide Oracle environments from a central, best-in-class console.



Other benefits

- **Flatten the learning curve** — The Oracle SPI is configured and operated through the familiar interfaces of the HP OpenView Operations family, enabling operators to confidently assume routine database monitoring activities without learning a new management paradigm.
 - **Delegate without losing control** — The Oracle SPI allows database and IT administrators to precisely configure each database operator's environment.
 - **Monitor without intrusion** — The Oracle SPI adopts a hands-off, non-intrusive approach to monitoring and does not create objects or interfere with the databases being managed.
 - **Efficiently transfer change management tasks** — The Oracle SPI allows administrators to configure events to page or e-mail a database administrator, who in turn can launch a web-based event browser from any location to drill down to the problem details.
 - **Protects investments in home-grown scripts** — The Oracle SPI lets administrators cut and paste SQL for their metrics into the UDM template and further specify OpenView Operations or OpenView Performance options for that metric.
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The Oracle SPI increases RDBMS availability and performance, lets administrators visualize capacity shortages and trends, and consequently lower the overall cost of maintaining the Oracle Database and RAC environment.

Product Functionality Overview

The HP OpenView Smart Plug-in for Oracle brings market-leading HP OpenView management and control capabilities to Oracle environments. It enables you to perform business-centric service management, event management, performance monitoring and reporting on your Oracle environment, in support of your critical business processes.

Event /Action

HP OpenView Operations monitors key operational activities and events to ensure always on availability. Includes more than 90 log file conditions and more than 60 application tools for Oracle management:

- Alert log messages such as data block corruptions, enqueue resources exceeded, internal errors and I/O read/write failures
- Error situations such as trace files, SYS.DUAL status, snapshot errors
- Compatibility with Oracle Real Application Clusters
- Process monitors for all the Oracle database processes (e.g., Listener, LGWR, DBWR, PMON, ARCH, SMON, TRWR, RECO, SNPx, and LCKx)
- Snapshot reports of DB environment when alerts occur

Performance

HP OpenView Performance Manager monitors critical Oracle database and RAC resources, including more than 80 pre-defined performance thresholds for Oracle database and RAC health and 15 pre-defined performance graphs:

- Space management such as tablespace, freespace and fragmentation of segments approaching maximum extents
- Sort, buffer, shared pool and transaction performance such as average rows per sort and dictionary cache hit ratio
- Table and index performance, including number of tables cached and full table scan rate
- Rollback segment statistics, such as number of shrinks and percentage of waits to gets
- Archive information, including average time between archive log writes and number of logs that fit in the archive device
- Parallel Query effectiveness, such as percent servers busy, query rate and row id range scans
- Multi-Threaded Server performance, including percent servers waiting for requests and UGA memory in use
- SQL Query Monitoring, such as identifying top SQL statements in terms of number of fetches per execution, number of rows scanned per execution, elapsed time per execution, CPU time per execution, performing full table scan and more
- User-Definable Metrics for home-grown scripts
- Oracle Session Monitoring, such as identifying top Sessions in terms of having high number of hard parses, having high free buffer waits, having high latch free wait and suspended time is more than the specified threshold
- Oracle RAC Monitoring, such as identifying Data Blocks in terms of got corrupted during interconnect, got lost during interconnect and more

Service reports

Choose from one of two sets of pre-defined service reports:

1. **HP OpenView Reporter** enables IT to provide timely, accurate reports to prove IT service quality levels. It provides pre-defined reports in the areas of availability, space management, workload and operations (19 in total).

Top Tablespaces By Percent Used

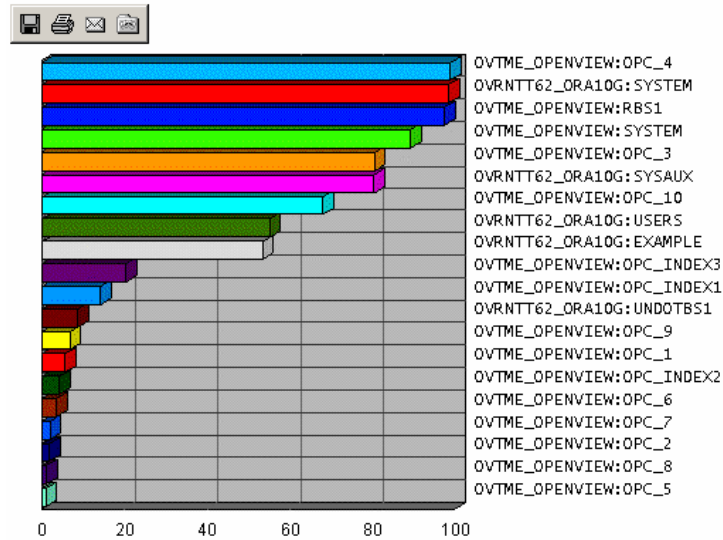


Figure 1. This OpenView Reporter report gives a quick graphical overview of top tablespaces by percent used.

2. **HP OpenView Performance Insight** allows more flexibility in what is shown, how it's shown, and provides additional features like baselining for more capacity planning. It provides pre-defined reports in the areas of availability, space management, workload and operations (15 in total).

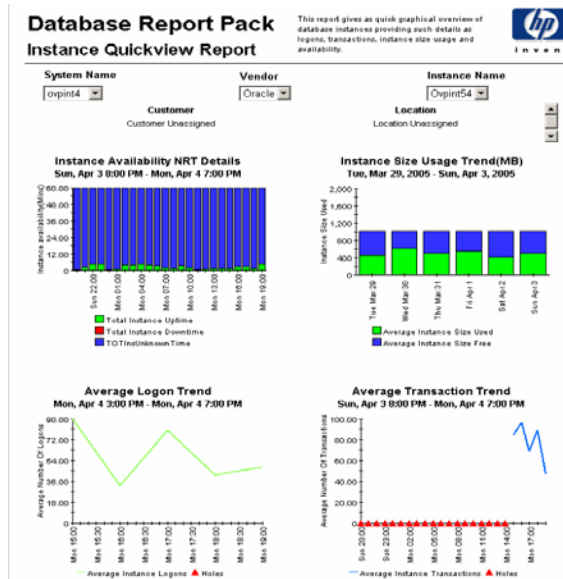


Figure 2. This OpenView Performance Insight report gives a quick graphical overview of database instances providing details such as logons, transactions, instance size usage and availability.

Service views

HP OpenView Smart Plug-in for Oracle offers auto-discovery and visualization of the Oracle service topology, comprising more than four object types and their dependencies.

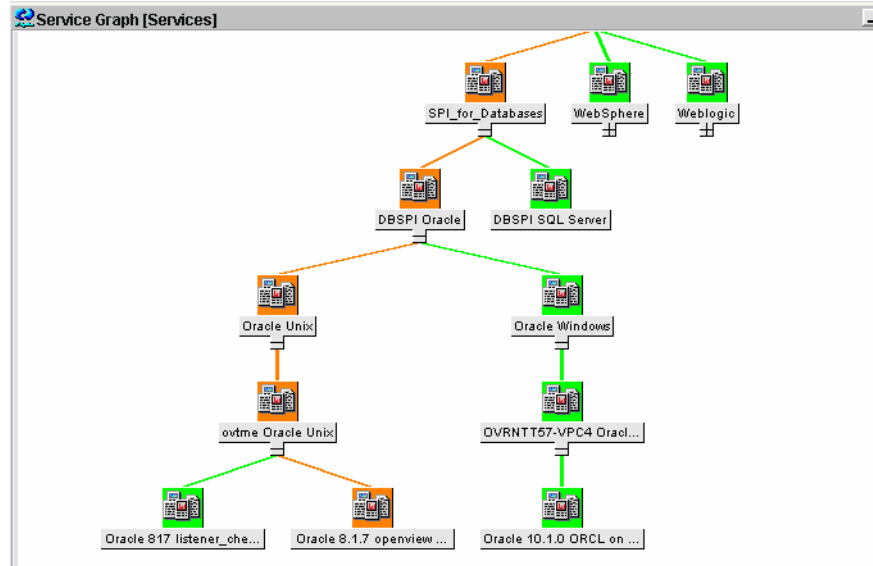
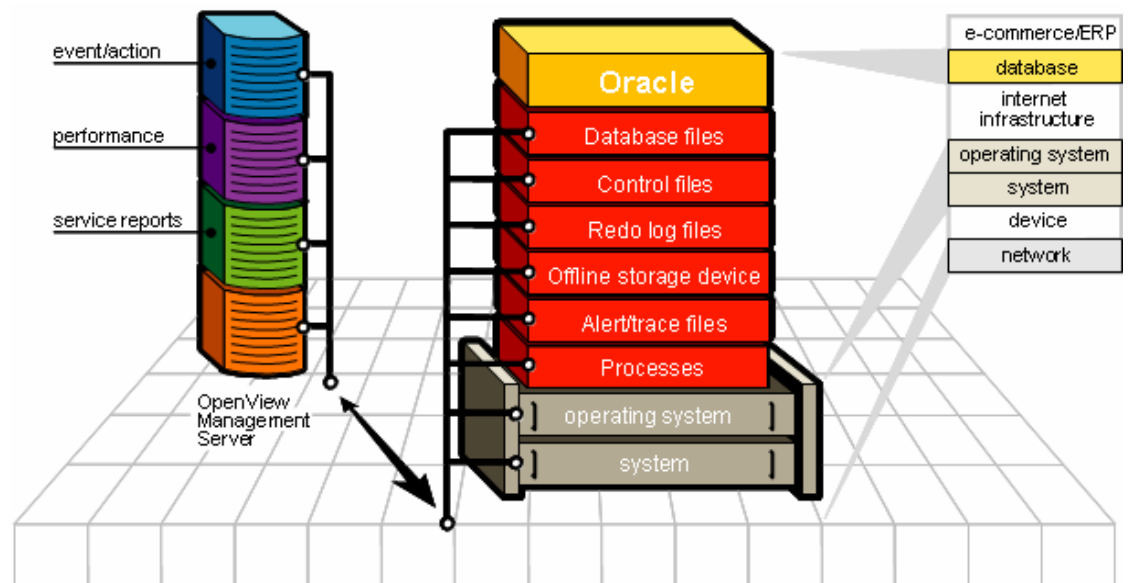


Figure 3. Understand the business impact of IT problems through HP OpenView Operations' service views.

A complete solution

Through the combination of multiple HP OpenView Smart Plug-ins, HP OpenView provides a comprehensive solution covering Oracle and non-Oracle components of your business process.



The HP OpenView monitoring architecture for Oracle databases.

Figure 4. HP delivers a comprehensive solution for Oracle environments in support of your business.

Get the most from your software investment

HP provides high-quality software services that address all aspects of your software application life-cycle needs. With HP, you have access to standards-based, modular, multi-platform software coupled with best-in-class services and support. The wide range of HP service offerings—from online self-solve support to proactive mission-critical services—enables you to choose the services that best match your business needs.

For an overview of HP software services, visit: www.managementsoftware.hp.com/service

To access technical interactive support, visit Software Support Online at: www.hp.com/managementsoftware/services

To learn more about HP Software Customer Connection, a one-stop information and learning portal for software products and services, visit: www.hp.com/go/swcustomerconnection

Comprehensive training

HP provides a comprehensive curriculum of HP OpenView and IT Service Management courses. These offerings provide the training you need to realize the full potential of your HP solutions, increase your network optimization and responsiveness, and achieve better return on your IT investments.

With more than 25 years experience meeting complex education challenges worldwide, HP knows training. This experience, coupled with unique insights into HP OpenView software, positions HP to deliver the optimum training experience. For more information about these educational courses, visit: www.hp.com/learn

The smartest way to invest in IT

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire, manage and ultimately retire your HP solutions. For more information on these services, contact your HP sales representative or visit:

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Technical specifications

Managed Oracle Nodes

Supported Oracle releases	Oracle 7.3.x, 8.x, 9.x, 10g
Supported Operating Systems	HP-UX, HP Tru64 Unix, Sun Solaris, IBM AIX, Microsoft Windows, Red Hat Linux, and SuSE Linux
Supported OpenView Platforms	HP OpenView Operations Agent, HP OpenView Performance Agent

Management Server

Supported OpenView Platforms	HP OpenView Operations, HP OpenView Performance Manager, HP OpenView Reporter, HP OpenView Performance Insight
Supported Operating Systems	Microsoft Windows, HP-UX, Sun Solaris

Other Oracle platforms have support through remote access, with some restrictions.
For detailed release compatibility, contact your HP reseller or HP sales office.

Ordering information

Part number	Product name
B9150AA	HP OpenView Smart Plug-in for Oracle, Tier 4
B7464AA	HP OpenView Smart Plug-in for Oracle, Tier 3
B7465AA	HP OpenView Smart Plug-in for Oracle, Tier 2
B7466AA	HP OpenView Smart Plug-in for Oracle, Tier 1
B7467AA	HP OpenView Smart plug-in for Oracle, Tier 0

Media and manuals are included with the media kit for HP OpenView Operations.

For more information about hp OpenView smart plug-in for Oracle, contact your local HP reseller or HP sales office:

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The HP OpenView Smart Plug-in for Oracle is the intelligent choice for managing Oracle database and RAC environments of any size, from a single Oracle database managed with local tools to a distributed environment of hundreds of databases managed from a central, best-in-class console.

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January 2006