

ORACLE TIMESTEN IN-MEMORY DATABASE PLUG-IN FOR ORACLE ENTERPRISE MANAGER

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THE ORACLE TIMESTEN PLUG-IN PROVIDES:

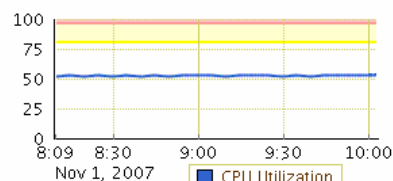
- Availability and performance monitoring
- Threshold and event management
- Key configuration and information collection
- Built-in reports for problem diagnosis, trend analysis and capacity planning.
- Leverage Grid Control infrastructure for mass deployment

The Oracle TimesTen In-Memory Database Plug-In for Oracle Enterprise Manager delivers comprehensive availability, performance and configuration information for TimesTen databases

Oracle TimesTen Plug-In Overview

The Oracle TimesTen In-Memory Database Plug-In is deployed as part of an Enterprise Manager Agent, running on the server on which the TimesTen database resides. The Oracle TimesTen Plug-In provides the users the ability to monitor system information, TimesTen database configuration and performance statistics. Configuration information and performance statistics are captured at user-defined intervals. The captured information are periodically uploaded and stored in the Oracle Enterprise Manager repository database. Users can monitor the information with the built-in screens, or generate reports using the flexible Enterprise Manager report wizard.

CPU Utilization

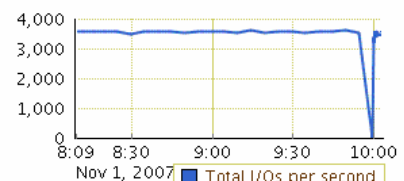


CPU in I/O Wait (%) **0**

Run Queue Length (5-minute average) **1.33**

Additional Metrics [CPU Usage](#)

Disk I/O Utilization



Longest Service Time (ms) **179.57**

Additional Metrics [Disk Activity](#)

CAPTURE PERFORMANCE METRICS IN KEY AREAS

- Checkpoints
- Connections
- Locks
- Log activity
- Memory
- Replication
- Transactions
- Workloads

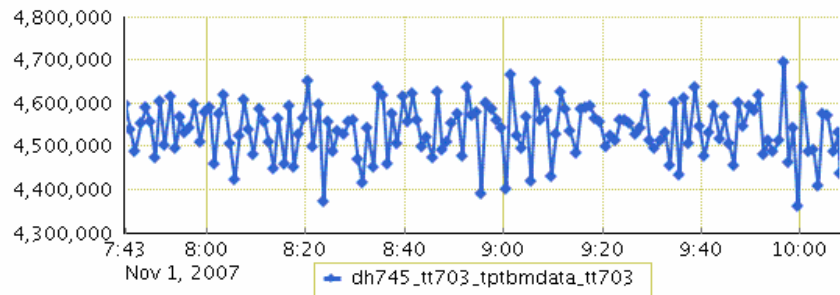
Flexible display formats for key performance metrics

The plug-in enables the captured information to be displayed in many ways including:

- Tables of name/value pairs for the database, instance and performance data.
- Tables of name/value pairs for the performance rates (derived performance data).
- Times series graphs for each of the performance data metrics.
- Times series graphs for each of the performance rates metrics.
- System supplied reports showing combinations of times series graphs for performance data and performance rates.
- User-defined reports for TimesTen databases and operating system metrics.

XACT - Transactions committed per minute

Metric Value



The time series graphs can be displayed over different timeframes (e.g. real-time, last 24 hours, last 7 days, or customer intervals), and the graphs are automatically resized for proper views.

ROBUST THRESHOLD
ALERTS AND NOTIFICATIONS

- User-defined thresholds
- Alerts and notifications
- Blackouts
- Customized policies

Robust Threshold Alerts and Notifications

User defined thresholds for warning and critical events generate alerts and notifications, allowing you to manage by exception. Supported notification types include SMTP, SNMP, and O/S commands.

Metric and Policy Settings

Metric Thresholds Policies

View Metrics with thresholds

Metric	Comparison Operator	Warning Threshold	Critical Threshold
LOCK - Deadlocks per minute	>=	1	6
LOCK - Lock timeouts per minute	>=	1	6
LOCK - Number of deadlocks	>	1	2
LOCK - Number of lock requests denied due to timeouts	>	10	100
LOG - Log buffer waits	>	1	5
LOG - Log buffer waits per minute	>	1	60

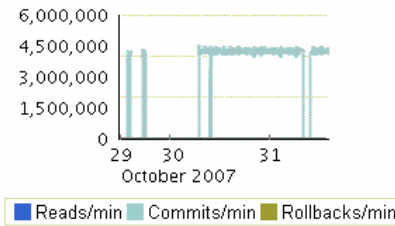
POWERFUL REPORT CUSTOMIZATION

- Summary reports
- Detailed reports
- Exception reports

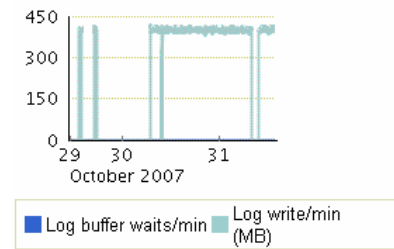
Powerful Report Customization

The ability to correlate host metrics such as CPU utilization, memory usage and disk I/O with TimesTen metrics such as connection rate, transactions rates, replication transaction rate, transaction log buffer waits, and checkpoint byte written enables the user to quickly get an overview of the system performance and helps speedup the performance analysis process.

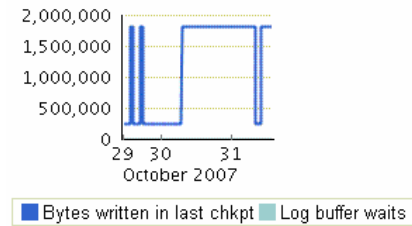
Transactions Activity



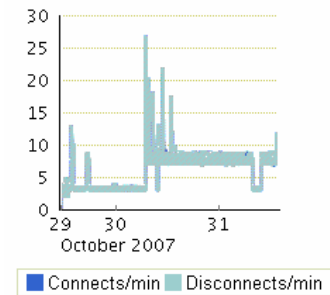
Log Activity



Checkpoint Activity



Connections



User-defined reports enable users to create reports based on their metrics of choice.

CENTRALIZE MONITORING FUNCTIONS

- Leverage Grid Control infrastructure for secured deployment across servers
- Streamline availability and performance monitoring

Centralize Monitoring Functions

The System Monitoring Plug-in for Oracle TimesTen In-Memory Database provides administrators with a consolidated view of the entire enterprise, enabling them to monitor and manage all of their Oracle software components from a central place. Having such an integrated tool reduces the total cost of ownership by eliminating the need to manually compile critical information from several different tools, thus streamlining the correlation of availability and performance problems across the entire set of IT components.

For more information, please visit <http://oracle.com/technology/products/timesten>

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