

# NORAD Surveillance™

## for Oracle9i Real Application Clusters

Continuous monitoring of the entire Oracle9i RAC and the individual nodes.

v 2.0

Products for Distributed Systems

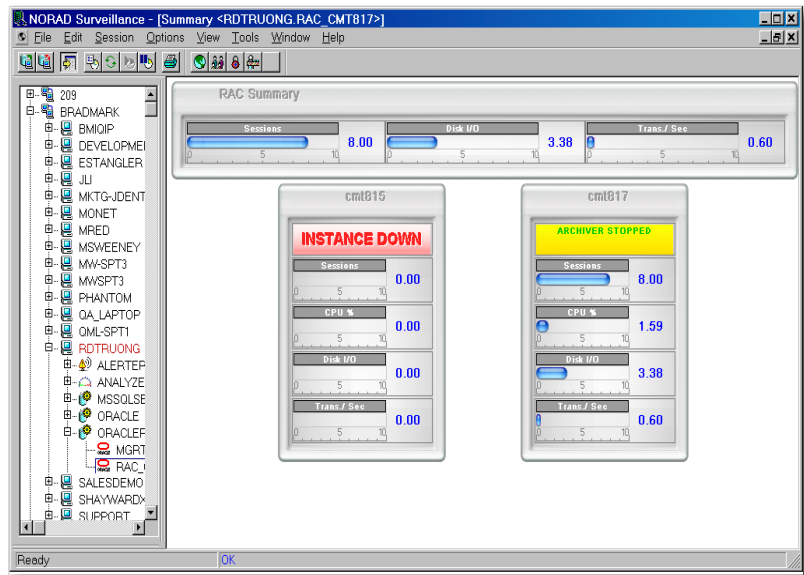
### Overview

The **NORAD** family of products provide IT departments with real-time feedback and optional automatic corrective actions to ensure application and system uptime with the goal of maximizing application performance, availability and reliability. The mission of NORAD is to protect the IT systems and business processes that are vital to today's business economy.

A clustered database like Oracle9i RAC runs on multiple machines, complicating support tasks performed by the Oracle DBA. **NORAD Surveillance** is the first commercially available monitoring solution for Oracle9i RAC. In one view, administrators can quickly glance at important statistics such as user counts, CPU usage, I/O, transaction throughput and general status for each node in the cluster as well as summarized for the entire RAC.

### Key Benefits

- Monitors the individual nodes of the RAC as well as the overall status.
- Shows key statistics for each node of the RAC and aggregated for the entire RAC.
- Simplifies monitoring of a RAC by sending alerts if there is a problem anywhere in the cluster, notifying the administrator of critical events such as when a node has failed and when it comes back online.
- The RAC Sessions window will help the administrator identify which node of the RAC a specific user is logged into.
- Helps the DBA determine which objects are being pinged the most and other important tuning statistics to plan user deployment to targeted nodes and reduce excessive cache ping.
- Displays locks across the entire RAC.
- Through the RAC Blocked Sessions window, identify blocked sessions across the entire RAC.

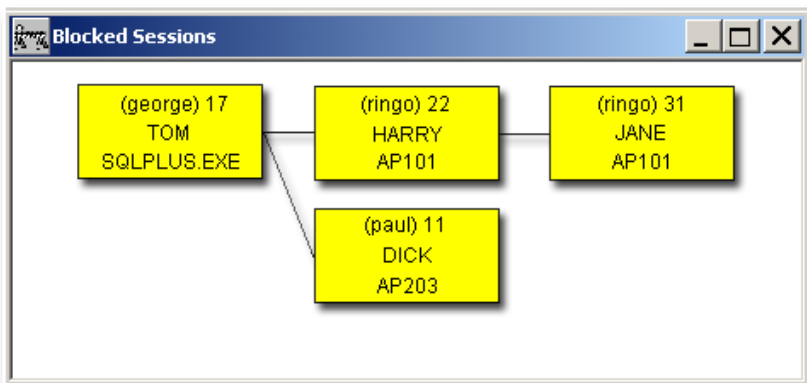


At one glance you see the overall status of the RAC. Nodes that are up are displayed in green. Nodes that are down are red. The RAC status window also shows user counts, CPU usage, I/O, transaction throughput and the general status for each node and the entire RAC.



## Product Summary

- Out-of-the-box, comes with a set of default windows displaying information on Oracle9i RAC health, performance and configuration.
- Zero in on problems through intuitive, well-organized screens.
- Graph historical trends over time.
- Robust event management with a comprehensive rule set that is easily customized to fit any environment.
- Gives resource utilization statistics at the node level and across the entire RAC.
- Store historical data to track performance over time and support system upgrades and/or additional nodes.
- View contention and resource utilization across the entire RAC.
- Combined with NORAD Surveillance DB & OS, provides end-to-end coverage of the RAC, monitoring the database instances, the RAC as a whole, and the servers on which they reside.



*The Global Blocked Sessions window shows blocked sessions across the entire RAC, indicating sessions that are locking resources needed by other sessions and showing whether they are on the local instance or another instance on the RAC.*

### Related Products:

#### NORAD Surveillance DB

Enterprise database monitoring and unattended event management. Implement user-defined collections and rules and store historical data for future use.

#### NORAD Surveillance OS

Adds operating system and application monitoring to NORAD's outstanding database monitoring ability.

#### NORAD DBControl Online

Provides uninterrupted 24 x 7 data availability while performing reorgs, structural changes and partition management in your Oracle environment.

#### NORAD Wireless DBA

Maximize availability of business-critical applications with wireless administration and monitoring.

### About Bradmark

For 20 years, Bradmark has provided a business advantage by ensuring that the databases, which are vital to the organization's competitive advantage, meet or exceed health and availability requirements.

**Bradmark is committed to providing data management solutions in support of our customers' business challenges.**

In addition to a direct sales force, Bradmark has an established worldwide network of channel partners.

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