Surveillance*RS*™

For Sybase Replication Server

Latency Monitoring Ensures Uninterrupted Replication Data

Surveillance *RS* monitors the availability and performance of Sybase Replication Server in conjunction with most databases and operating system to provide a complete view of the replicated infrastructure. One window, with drill-down capability, provides a high-level overview of performance metrics such as thread status, partition utilization, inbound SQM activity, outbound DSI queues, transaction exceptions, memory utilization and the status of warm standby pairs. Additionally, configuration of the Replication Server is monitored, including all configuration parameters stored in the RSSD that affect performance.

The Surveillance toolset exposes over 2500 metrics for monitoring, alerting and reporting. With rule-based event management, users get immediate alerts of performance issues on Replication servers throughout the enterprise. For root cause analysis, capacity planning, and service-level monitoring, Surveillance's Central Repository stores historical data for performance and utilization information.

Key Benefits

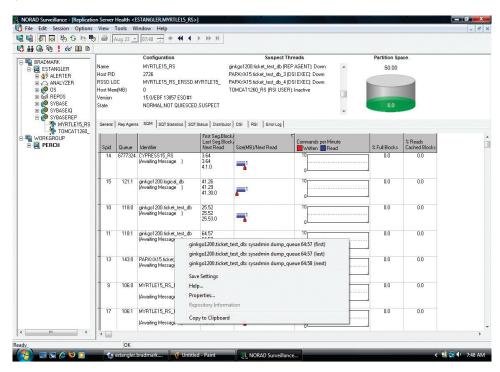*Provides complete end-to-end monitoring of your replication server environment*

Provides both operational and performance monitoring in one tool

Provides historical reports depicting data flow, partition space utilization, transaction throughput, availability and much more for capacity planning and defect analysis

Detailed views of individual thread performance to quickly identify the source of performance problems as they occur

Calculates relevant performance metrics for assessing performance of the various components of the Replication Server

Health view provides a top-level view of key performance and utilization metrics to quickly assess the overall health of your database..

Product Functionality

Latest Surveillance RS Features

- New latency monitoring utilizing the RS_TICKET feature
- New feature to dump queue contents from Surveillance Health View
- Display Metadata through the monitor GUI
- Revamped Replication Agent view with primary ASE statistics, status, and configuration information
- Analyze queue contents, specifically, the block of the first, current, and last transaction in the queue, or viewing a specific block
- Latency by specific source, not only worse case
- Enhanced exceptions handling views and processing

Key Alerts:

- RepServer is down or not responding.
- A Replication Server thread is down or not responding.
- Partition space usage, both by percentage utilized and rate of utilization growth.
- Individual stable queue length and unread queue% is growing excessively.
- Throughput is below expected levels (mbytes/minutein, transaction/minute out).
- Various memory efficiency alerts such as % reads from cache is low, excessive removed transactions, etc to help tune memory allocation.
- New exception transactions have occurred.
- Errors have been posted to the log file.

ASE Monitoring
(primary database):

- At the primary database, monitors the time the replication agent is behind in processing transaction log.
- Provides graphical view of log file growth rate as well as overall utilization to alert when availability may be compromised.
- Monitors the general status of the replication agent and alerts when not connected and streaming transaction log.

ASE Monitoring
(replicate database):

- Monitors DSI executor threads and alerts when excessive blocking occurs or they are log suspended.
- Provides a graphical monitor of transaction latency and alerts when excessive.
- Monitors when transactions have been received and alerts if no transactions have been received from the Replication Server for an excessive time period.
- Monitors the transaction log % utilization on the replicate database and alerts when it is filling up.

System Requirements

Console Requirements:

- Windows 2000 or later
- 600 MHz Pentium Processor
- 128 MB of RAM
- 100 MB free hard disk space

Agent Requirements:

- Platforms: Windows 2000 or later, AIX, HP-UX PA-RISC, HP-UX Itanium, Linux x86, Solaris SPARC, Solaris x64, and Tru64
- Full 64-bit support on UNIX and Linux
- TCP/IP
- 80 MB free hard disk space, more for repositories (Windows)
- 300 MB free hard disk space (UNIX)

RDBMS Requirements:
- Sybase ASE version 12.0 or later
- Sybase Replication Server ver. 12.1 or later

About Bradmark

Privately-held for more than 25 years, Bradmark Technologies, Inc. develops, markets, sells, and supports data management solutions that provide anytime — anywhere access to managing database, application and operating system components. In addition to a direct sales force, Bradmark has an established worldwide network of channel partners.

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