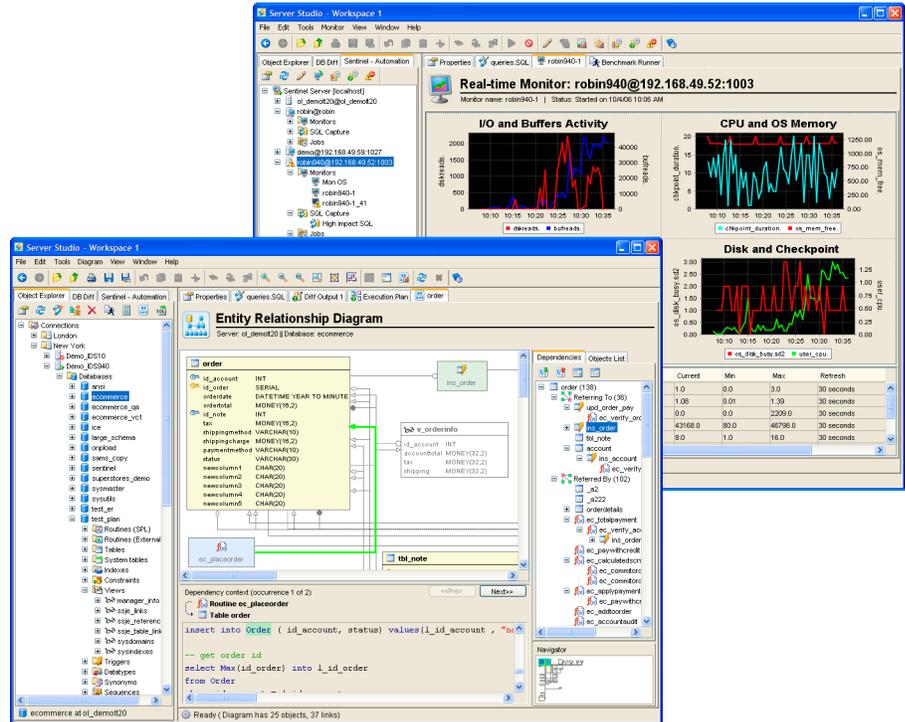# AGS

SERVER STUDIO™ & SENTINEL™
Command & Control Center for IBM Inform*i*x® Servers

• *A comprehensive multi-platform suite of proven system management tools for IBM Informix® DBMS servers that help database professionals to be more effective and productive by simplifying complexities of daily tasks.*

• *Highly intuitive graphical console provides a powerful set of seamlessly integrated database management tools that minimize error-prone, time-consuming, command-line-driven administrative tasks.*

• *Keep database servers performing at peak levels with an extensive assortment of analytical tools to diagnose and respond to performance and availability problems in real time.*

• *Automate 24 × 7 monitoring of server operational parameters and retain continuous time-series measurement data of the server's performance in an integrated repository.*

• *Improve utilization of data storage resources by efficiently reorganizing vital databases with minimal application downtime.*

• *Preserve your database investment with the comprehensive configuration change and compliance management solution for your databases.*

• *Maximize availability of vital databases by enabling fully autonomic responses to critical server events.*

• *Manage entire IBM Informix® DBMS infrastructure from a unified point of control — irrespective of whether the database servers are all in one location, or at remote sites around the world.*

• *Resolve query response problems with extensive built-in SQL diagnostics and tuning facilities.*

Your vital infrastructure of database servers is complex, but the tools to manage it don't need to be. Server Studio™ together with Sentinel™ provide state-of-the-art, powerful solutions that help both seasoned database professionals and novices alike manage IBM Informix® DBMS environments with an unprecedented ease and improved productivity. This multi-platform suite of integrated, highly intuitive system management tools helps organizations ensure that critical database applications remain up and perform at peak levels, manage change and assure availability of vital business information.

Server Studio™ provides a comprehensive collection of modern, easy-to-use, proven tools for DBAs and developers that improve efficiency of performing common database tasks such as: SQL development and debugging, schema management, configuration auditing and change management, performance tuning, data storage management and reorganization, security administration and more — all from an integrated graphical console that unites all development, administration and maintenance activities for your entire IBM Informix® DBMS servers infrastructure at a centralized point of control.

Sentinel™ automates proactive 24 × 7 operational monitoring of IBM Informix® DBMS servers, provides an extensive array of sophisticated diagnostics tools to optimize critical performance parameters, executes regular database maintenance tasks, facilitates robust configuration change and compliance management to assure database integrity, enables flexible multi-level alerts to flag availability and performance degradation problems, as well as manages autonomic responses to server events in real time.

Together, Server Studio™ and Sentinel™ provide wide-ranging functionality to support your organization's vital IBM Informix® databases — from initial design, development and testing, all the way through to production deployment and operational service.

IBM
Business Partner

For additional information, please visit www.serverstudio.com or call 212-785-1204

Premier Tools Suite for Informix DBMS

Development and Debugging

Server Studio™ is the principal graphical integrated development environment for IBM Informix® database servers that features a rich collection of modern, highly intuitive, easy-to-use tools for coding and interactive debugging of stored procedures, schema and SQL scripts development, change analysis, query tuning and data storage allocation planning to help improve performance before deployment.

Query Tuning

Query Plan Analyzer helps optimize performance of SQL queries through automatic analysis of the execution plan selected by the server's optimizer. SQL Tuner is a powerful but easy-to-use tool that guides you through the complex process of tuning the code by helping locate bottlenecks and automatically suggesting more optimal SQL cases to correct performance deficiencies. Integrated Index Adviser performs a thorough examination of SQL statements and presents index recommendations based on tables used by them.

Pre-Deployment Testing

Benchmark Runner module effectively simulates real-life scenarios of hundreds or thousands of users simultaneously accessing your database application to pinpoint bottlenecks and set database performance benchmarks by gathering the required database performance facts needed to identify point-of-system failures and achieve required levels of performance. Data Manager module can quickly and easily populate test databases with millions of rows of meaningful, syntactically correct test data, while maintaining full referential integrity — enabling application testing with enough data to give a realistic picture of database performance in the production environment.

Database Administration

Server Administrator module is a state-of-the-art integrated workbench that helps manage multiple DBMS servers from a single console and simplifies database maintenance with a comprehensive graphical object management interface that allows you to quickly create, drop or alter database objects to accommodate business and application needs. It also simplifies systems' administration with a rich set of reports for accessing server's performance and data storage space utilization.

Storage Space Management and Database Reorganization

Server Administrator module's Storage Manager helps create or delete DB Spaces, BLOB Spaces and Chunks with ease and provides a graphical representation of data storage space utilization to quickly detect problems such as low scan density and high fragmentation in your databases. Heatmaps facilities enable innovative multi-dimensional graphical analysis of storage resources and table activities. The built-in Reorganization Wizard improves utilization efficiency of scarce data storage resources and optimizes database performance by reorganizing table structure and data allocation to reduce the number of table extents, reclaiming wasted space, moving data to a different DB Spaces or fragmenting it across multiple DB Spaces — all with minimal application downtime.

Configuration and Change Management

Sentinel — Change Management Option ("CMO") edition streamlines database integrity management by: capturing periodic database system configuration snapshots and retaining them in the built-in repository; providing robust facilities to perform comprehensive comparative analysis to detect changes in a live system from a reference baseline or between any two snapshots; as well as enabling easy roll-out, roll-back and recovery of lost or damaged database objects. It provides required management and control infrastructure that helps keep changes to your IBM Informix® database systems up to date, adhere to approved design baselines and resolve database configuration problems before they occur and adversely impact availability of vital data.

Performance Diagnostics, Alerts and Automation

Sentinel — Performance Management Option ("PMO") edition's configurable matrix of over 160 real-time diagnostics sensors and response automation facilities form the foundation of a highly adaptable infrastructure for monitoring your IBM Informix® environment's performance and availability on 24×7 basis. Easily customized monitors, which are assembled from these sensors, provide long-term persistent time-series measurement data of database servers' performance that are used by Sentinel's powerful issue discovery, diagnostics and analysis facilities to help pinpoint underlying causes of bottlenecks and resources contention issues. Multi-level alerts may be configured for each monitored parameter to provide proactive notification of performance problems and autonomic responses to server events. Sentinel — PMO edition provides you with all the tools needed keep to your IBM Informix® data servers' environment tuned for optimal performance and, if necessary, rapidly and competently resolve mission-critical data availability problems.

"... Server Studio and Sentinel provide a collection of integrated, highly productive system management tools that developers and DBAs working with IBM's Informix data servers have been demanding and waiting for. Informix now has very powerful graphical tools that exceed the capabilities of native and third party offerings available for any other database platform. Couple this with outstanding technical support and you get products with excellent value and a quick ROI. In our large distributed environment, Server Studio and Sentinel have simplified and automated many DBA tasks. With these additions, IBM's Informix data servers have been made significantly easier to administer and monitor."

Kevin Kleinhomer
Vice-President
Bank of America

"I love Server Studio! As a software developer and DBA, it is a tool that I use every day. And it is exactly what I demand from my tools - stable, reliable, and powerful. Even the 'small' features of Server Studio are big time savers. I can't imagine working with Informix and not using Server Studio. I won't work with anything less!"

Sean Durity
Manager of IT
CornerCap Investment Counsel

"Server Studio brings Informix Database Administration into the 21st Century, replacing ancient command line tools with modern graphical tools. I really can't image how Informix DBA's survived without it!"

Kevin Godsman
Musto Ltd, UK

"I like Server Studio a lot. It is one of the best database tools I've used. The fact that I can view data in several instances at the same time, helps tremendously when testing software or comparing objects in development vs. production. ... I highly recommend Server Studio."

Clifford Jardine
Computer Sciences Corporation (CSC)

AGS

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