GENIUS Advanced Monitoring & Performance Analytics

GENIUS
ADVANCED MONITORING

Benefits

- System Alerting
- Automated Comprehensive Surface Testing
- Internal Escalation Processes
- Reports for Analysis
- Capacity Planning
- Before and After Analysis
- Action Strategy
- New Perspective on User Activity
- Peace of Mind

GSI's GENIUS monitoring toolset addresses the most challenging system performance issues for JD Edwards EnterpriseOne and other enterprise applications, enabling users to realize optimal performance.

The JD Edwards architecture features three industry-standard "Layers": Web, Application, and Database. Since a problem with any one layer could potentially render the entire application unusable, GSI has developed multiple GENIUS components, each of which provides critical insight into one or more layers of the JD Edwards application stack.

The GENIUS monitoring system was developed to provide unprecedented detail and insight about the JD Edwards application to our team of experts. It is a native part of our AppCare service, and is central to GSI's success as an industry leader in the world of JD Edwards consulting.

Types of Monitoring

- JDE Enterprise Servers – UBE, Logic, Scheduler & More
- Web Servers – WebLogic, WebSphere, Load Balancers
- Database Management System – Oracle, SQL Server, DB2
- Operating System – Linux, AIX, IBM iSeries, Windows
- Network – Local Area Network and Wide Area Network
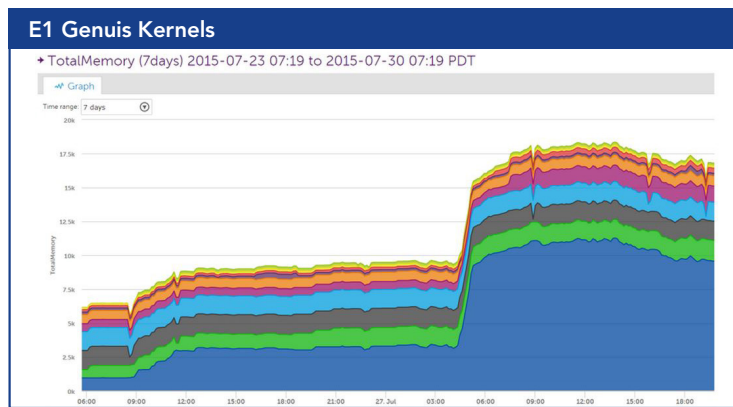- EnterpriseOne Application – System Availability and Health

**ERP Expertise.
Business IQ. Cloud Sense.**

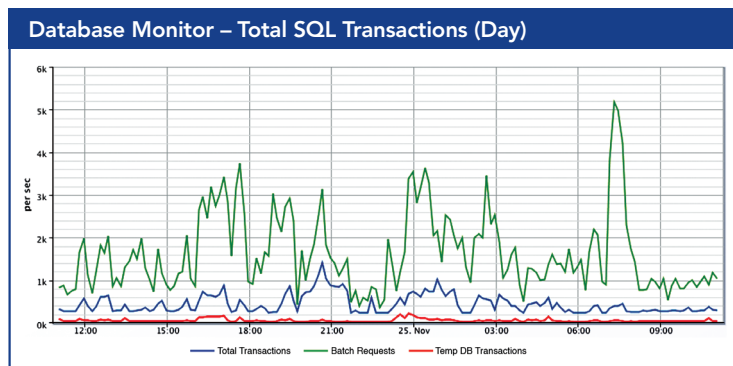# GENIUS Advanced Monitoring & Performance Analytics

APP GENIUS – Experience has clearly shown that even the most detailed infrastructure monitoring can show that all the services which make up an application can be functioning properly, but the application can still be down from the user's perspective, which is what matters most. With this in mind, we've created APP GENIUS, to perform the most extensive test of the application possible.

JAS GENIUS – JAS Servers are the face of the JD Edwards application, providing its web-based user interface. JAS GENIUS looks under the hood of the JAS Servers, by monitoring all the critical components of the web services.

E1 GENIUS – The EnterpriseOne application service is at the heart of JD Edwards, constantly moving data between the JAS and database servers. E1 GENIUS taps directly into the E1 application engine for all the key statistics surrounding processes, kernels, JAS connectivity, database connectivity, and more.

E1 Genuis Kernels

➤ TotalMemory (7days) 2015-07-23 07:19 to 2015-07-30 07:19 PDT

UBE GENIUS – We've created UBE GENIUS specifically to provide in-depth insights into the operation of batch jobs. UBE GENIUS dynamically discovers and monitors each queue and batch job, providing a historical view to the patterns of both, as well as notifying the AppCare team of any anomalies in the patterns via real-time alerts.

DB GENIUS – Behind every EnterpriseOne application server is a database on a database server or cluster. Database servers are often shared among multiple applications, so DB GENIUS monitors both the overall health of the database engine, as well as numerous JD Edwards specific metrics about users, jobs, and performance, taken directly from the JD Edwards tables.

Database Monitor – Total SQL Transactions (Day)

Total Transactions · Batch Requests · Temp DB Transactions

Application Health
EnterpriseOne, WebLogic, WebSphere
- Automated User Experience Testing
- Instance Level CPU/Memory
- Advanced Batch Job Status
- Advanced User Activity
- WebLogic and WebSphere JVM Health
- JDE Services/Processes
- Queue Stats (Jobs Wait/Active)
- Kernel Stats
- JDE Security Alerting

Database Health
Oracle, MSSQL, DB2
- Buffer Hit Cache Ratio
- Compilations
- Number of Connections
- DB Page IO
- Index Searches
- Page Life Expectancy
- Full Table Scans
- Latch and Lock Wait Times
- Deadlock and Lock Timeouts
- Requests for Locks/Latches Waited
- Total SQL Transactions
- Page Splits
- Temp Work Files and Tables Created

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GENIUS vs. Server Manager		
	GENIUS ADVANCED MONITORING	**Server Manager**
Business Systems JD Edwards EnterpriseOne JD Edwards World RFSmart/DSI Hyperion PeopleSoft / E-Business Suite/NetSuite SAP …PLUS many, many more!	• • • • • • •	• – – – – – –
Scheduler 24/7/365	•	–
Surface Test Automated Measures Performance Metric History Frequency Scope	• • • Every 5 Minutes Each JAS Instance	– – – – –
JAS JVM Memory Metrics User and Application Metrics Metric History	• • •	• • –
Queues Real-time Jobs Active/Waiting Metrics Metric History Jobs-Waiting Alert Threshold	• • •	• – –
Process Metrics Metric Totals by Kernel Type Metric History Alert Thresholds on Any Metric	• • •	– – Limited
Database Monitoring Oracle/Microsoft/iSeries Buffer Cache Physical IO Full / Long Table Scans Deadlocks - Latch/Lock Waits - Timeouts Total SQL Transactions	• • • • • •	– – – – – –
Log Monitoring Individual Log Viewer Aggregate Log Viewer (All Logs) Alert on Custom Phrase Advanced Log Analytics	• • • •	• – – –
Interface Graph Flexibility Overlay Multiple Metrics Overlay Multiple Servers Real-Time Alert Dashboard Create Custom Dashboards	• • • •	– – – –
Historical Reporting/ Trend Analysis Automatic Scheduled Delivery Selected Metric History All Alerts History Current Threshold Summary 2 Years of History	• • • • •	– – – – –

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GENIUS Advanced Monitoring & Performance Analytics

GSI, Inc.

As a certified Oracle Platinum Partner and a recognized industry leader, GSI, Inc. (GetGSI.com) specializes in providing a broad spectrum of business, functional, and technical consulting services for Oracle JD Edwards, Oracle NetSuite, Oracle Cloud, Salesforce and other enterprise applications. The company also offers an extensive array of cloud/hosting options to meet the specific requirements of an organization including: Oracle Cloud, Amazon Web Services (AWS), Microsoft Azure and JDE Cloud[9]. GSI's comprehensive suite of solutions include AppCare, a 24/7 managed service; GENIUS, an advanced monitoring application; GENISYS, a solution for modeling, measuring and maximizing system performance; gShield, a security application and RapidReconciler®, its inventory reconciliation software. GSI consulting services are backed by its signature 100% guarantee. Founded in 2004, the rapidly growing company is headquartered in Atlanta with locations nationwide. GSI, Inc. was named to Inc. Magazine's Inc. 5000 list of fastest growing companies for two consecutive years.

Operating System Health
- Windows, Linux
- CPU and Memory Utilization
- Disk Utilization/Performance
- Network Utilization and Errors
- Windows Event Log for Errors

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