



IBM DB2 and IMS tools and IBM WebSphere Information Integration tools

Highlights

- ***Proactively manage your DB2 or IMS databases with limited IT headcount***
- ***Leverage your database tools to exploit new versions of DB2 and IMS***
- ***Help ensure that your databases are performing at peak levels to meet stringent availability demands***
- ***Maintain 24x7 accessibility of business-critical IMS transactions***
- ***Respond confidently to regulatory compliance requests***

Solving data center challenges to help DBAs do more with less

In today's competitive world, database administrators (DBAs) are continually challenged to do more with less. In response to this challenge IBM offers DB2® and IMS™ tools and IBM WebSphere® Information Integration tools. The tools, offered for z/OS®, as well as Linux®, UNIX® and Microsoft® Windows®, help you optimize DBA resources, ensure high database performance and availability, and better access and analyze your data.

DB2 and IMS tools help reduce manual tasks, automatically generate utility jobs, capture and analyze performance data, make recommendations to optimize queries, and maintain high availability by sensing and responding to situations that could result in database failures and system outages.

The WebSphere Information Integration tools help with tasks such as the cleansing of mainframe data, providing SQL access to mainframe data, data replication and transformation, and data preparation for a data warehouse.

Database Administration tools

Administration is key to the maintenance of a database. In the IMS world, this can mean anything from staying current

with software versions, to converting your full-function databases to the new High Availability Large Database (HALDB) format, to managing the corruption of IMS databases. In the DB2 world, administration can mean keeping production, test and development databases in sync to simplify and centralize database administration. IBM DB2 and IMS Database Administration tools are your answer to managing and using your database more efficiently.

A new addition to the Database Administration tools includes:

- *DB2 Storage Management Utility for z/OS. This tool helps with DB2 space management, enabling you to verify the integrity of your DB2 table spaces and index spaces. It can also suggest ways to repair spaces with errors and recover wasted DASD space.*

Utilities Management tools

Underlying the management of any database are the utilities that do mundane but necessary tasks like Reorg, Copy, Load and Unload. To do these tasks without utilities is painstaking and time consuming, if not totally impossible. With the number of database objects growing in the DB2 world as a result of applications such as SAP and Oracle's PeopleSoft, utilities become even more important.

In the IMS world, if 24x7 availability is a key requirement, reorganization tools from IBM can help with the performance of key functions, such as unloading and reloading, without taking your IMS database offline.

The latest update to the Utilities Management portfolio includes:

- *DB2 Utilities Suite for z/OS. This tool now supports all major new functions and structural changes in DB2 9 and offers a variety of features that help significantly improve performance, and includes enablement for the IBM System z™ Integrated Information Processor (zIIP).*

Performance Management tools

Performance management keeps the heartbeat of the database functioning at peak efficiency and is critical as IMS and DB2 environments continue to expand due to the explosion of data and the deployment of new applications. Performance monitoring can differ from environment to environment. It can entail tasks such as buffer-pool tuning and modeling for impact analysis, SQL tuning, making snapshots of data, providing online monitoring versus batch reports, and performing historical data analysis. The DB2 and IMS performance tools like IBM Tivoli® OMEGAMON® XE for DB2 Performance Expert/Performance Monitor for z/OS, IBM Tivoli OMEGAMON XE for IMS on z/OS, DB2 Performance Expert for Multiplatforms and IBM DB2 SQL Performance Analyzer

for z/OS can help you move from reactive to proactive when managing DB2 and IMS environments.

New to the Performance Management tools portfolio is:

- *DB2 Optimization Expert for z/OS. This tool delivers a comprehensive set of index and statistic advisors to improve system performance and lower total cost of ownership. The tool leverages the award-winning open-source Eclipse framework to integrate technology on the desktop so you can focus on delivering differentiation and value.*

Application Management tools

Application management plays an important role when you are developing applications for DB2 and IMS. From archiving data to less expensive direct access storage devices (DASD) and tape, to creating test data that complies with government data privacy regulations, to eliminating unnecessary binds or identifying potential access path changes, DB2 tools can help. In addition, IMS Application Management tools can help automate the comprehensive testing and debug application program logic to assist in backing out database updates after a failure, and help you maintain IMS Connect transactions.

Recovery Management tools

Database recovery comes in many flavors—recovering from a dropped customer file to bouncing back from

a major disaster, and everything in between. DB2 Recovery Management tools and IMS Database Recovery Facility are the insurance you need to protect your data and lessen the negative impact data loss can have on your business. The recovery tools from IBM help you facilitate the recovery process and maximize data availability.

Key to the recovery tools portfolio is:

- *DB2 Recovery Expert for z/OS and Multiplatforms. This tool provides a simple, self-managing recovery solution to help DBAs recover DB2 data with minimal disruption. It also automates the process of rebuilding the assets to a specified point in time, often without taking the database or the business operations offline.*

Information Integration tools

In the real world, your environment may include databases ranging from DB2 to IMS to Oracle, IBM Informix®, Sybase and Microsoft SQL Server. Every day, applications require access to diverse databases, consolidation of data in dynamic warehouses or data stores, continuous availability of data and the ability to deliver data to workflow applications or a warehouse using Qbase technology. IBM WebSphere tools help make these processes easier—such as WebSphere Data Event Publisher for z/OS, which makes it easy for data events to initiate business processes. In addition, WebSphere Replication Server for z/OS provides enhanced levels of

SQL-based data replication and queue-based data replication (Q-replication) that include significant performance improvements for increased scalability and simplified administration for monitoring Q-replication.

A new addition to the Information Integration tools includes:

- *WebSphere Classic Replication Server for z/OS. This tool offers System z data sourcing for IBM's queue-based replication solution, WebSphere Replication Server for z/OS. It supports SQL-driven access and near-real time changed-data feeds over WebSphere MQ from VSAM files and IMS, Computer Associates CA-IDMS, and Software AG Adabas.*

IMS Transaction Management tools

IBM offers a set of tools to help you better manage your transaction environments. The tools help you administer your Extended Terminal Support (ETO) environment more efficiently by eliminating the need for assembler skills. They also help you better manage your message queues and help you execute IMS commands throughout all of your IMS systems.

Smoothing the way for upgrades

The right tools can also facilitate your upgrading to the latest versions of the database. In building a baseline to upgrade to new versions of DB2 for z/OS, and charting comparisons between versions, tools such as OMEGAMON XE for DB2 Performance

Expert/Performance Monitor, DB2 Bind Manager and DB2 Path Checker can help make upgrading smoother and easier.

In the IMS world, IMS Parameter Manager evaluates all the current system parameters and shows whether they will work in the new version. In addition, the IMS tools allow you to take full advantage of IMS, Version 9, enhancements without overtaxing and overloading limited IMS resources.

Responding to regulatory compliance demands with DB2 and IMS tools

A top concern with IT shops today is how to effectively respond to new data compliance and privacy regulations that are adding new levels of complexity around data management. To help address this high priority concern, IBM offers tools such as DB2 Test Database Generator, that helps protect against liability by masking sensitive production data used in a test environment. In addition, DB2 Data Archive Expert makes it easier to move seldom-used data to less costly storage media while still making it accessible for auditing purposes. IBM also offers Data Encryption Tool for IMS and DB2 databases. With this one tool, encryption of IMS and DB2 data has become easier. No application changes are required.

The most recent additions to the IBM data compliance solution include:

- *IMS Audit Management Expert for z/OS and DB2 Audit Management Expert for z/OS. These tools give*

DBAs the capabilities they need to selectively audit inserts, updates, deletes and reads in their DB2 and IMS systems – helping you respond more proactively to some of today's key regulatory compliance requirements.

Maximizing the value of your data warehouse

New requirements like real-time access, regulatory compliance and consolidation of warehouses have made DB2 for z/OS an even stronger dynamic warehousing alternative. To help with all aspects of creating and maintaining your dynamic warehouse on DB2, IBM offers a number of information management tools. IBM WebSphere DataStage can help with the extraction, transformation and loading of your data. DB2 Audit Management Expert, IBM Data Encryption for IMS and DB2 Databases, DB2 Archive Expert and DB2 Test Database Generator can assist with compliance requirements. Tivoli OMEGAMON XE for DB2 Performance Expert/Performance Monitor, DB2 Query Monitor and DB2 SQL Performance Analyzer for z/OS can help maximize the performance and monitoring of your databases.

Key to the business analysis component of the dynamic warehousing tools solution are:

- *IBM DB2 Query Management Facility (QMF). This tool helps ensure that organizations deliver information across the enterprise via multiple end user platforms. It provides classical*

reporting mechanisms as well as robust visual query building methods. QMF releases the full power of enterprise data stores quickly and easily with new visualization capabilities and full support for DB2 9.

- *IBM DataQuant for z/OS and IBM DataQuant for Multiplatforms. These powerful new business analysis tools deliver an array of business intelligence capabilities including easy-to-create dashboards and data visualization to help leverage your data across the enterprise from mainframes to distributed systems. It allows businesses to securely distribute their reports, dashboards and visual solutions anywhere in the enterprise via an ordinary Web browser.*

Optimize investments and increase productivity

IBM updates the tools for every new database release, so you can quickly support and exploit new functionality. IBM also offers a full range of services for IBM DB2 and IMS tools to help you maximize your productivity.

For more information:

Please contact your IBM marketing representative, an IBM Business Partner or call 1-800 IBM CALL within the U.S. Also visit our Web site at ibm.com/software/data/db2imstools.



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