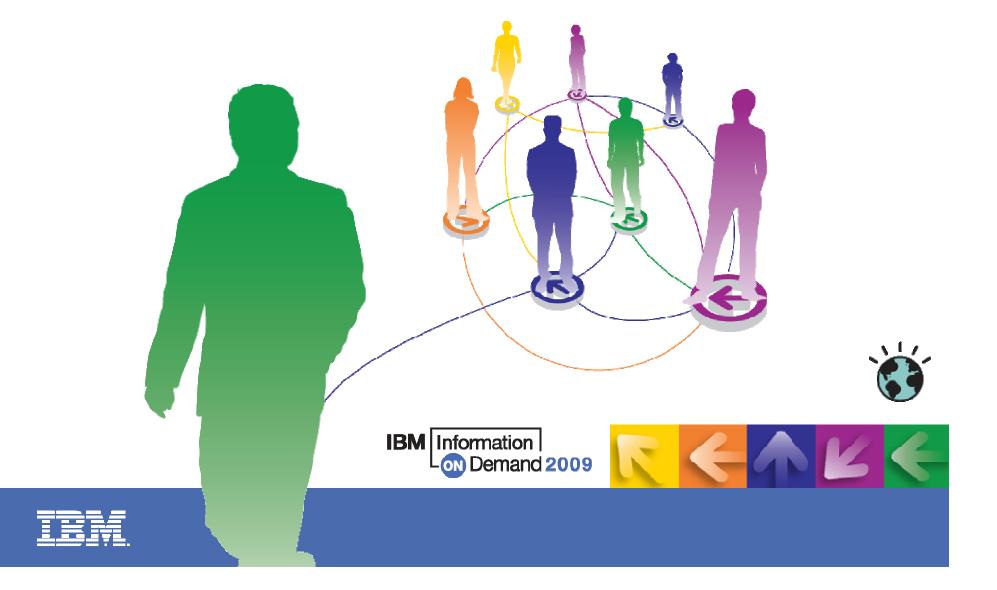
DB2 for z/OS Tools Overview





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DB2 for z/OS Tools Portfolio Overview

- Business Challenges
- Solution Overview

Integrated Data Management

Product Spotlight: OMEGAMON XE for DB2 Performance Expert

→Summary

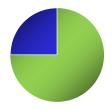




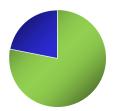


Data Management Must Drive Competitive Advantage

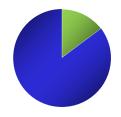
Survey: CIO's want to strengthen competitive advantage by better managing enterprise data



75% of CIO's believe they can strengthen their competitive advantage by better using and managing enterprise data.



78% of CIO's want to improve the way they use and manage their data.



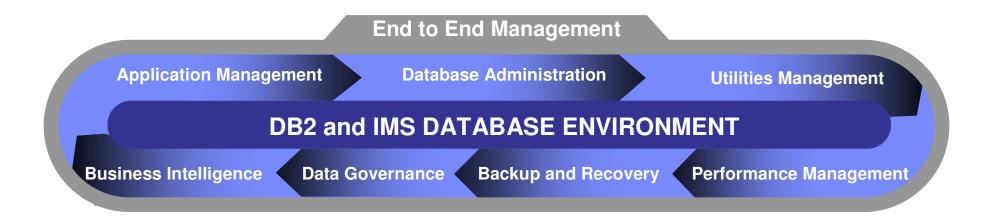
...but **only 15%** believe that their data is currently comprehensively well managed.

- Lowering costs associated with IT management
 - Resources
 - Availability
 - Productivity
- Proactive problem management
- Free up staff to drive business growth and optimization





Managing your business environment



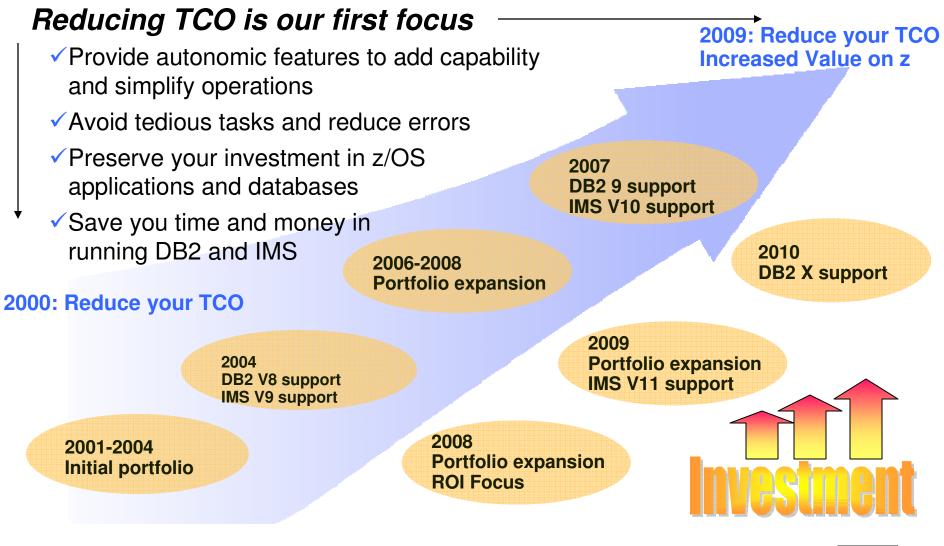
Business Challenges

- Optimizing costs associated with maintaining existing applications
- Quickly responding to new business requirements and opportunities
- Ensuring that business and regulatory needs can be properly met
- Maximizing IT staff productivity to streamline business operations





DB2 and IMS Tools



IBM Information

$\mathbb{K} \leftarrow \mathbb{K} \leftarrow$

Application Management

Business Challenges

- Maintaining and updating applications to support new requirements
- Minimizing performance impact when updating applications
- Minimizing downtime associated with application rollovers
- Managing complex application changes in a team environment









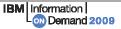
Database Administration

Business Challenges

- Managing changes to database objects and systems
- Propagating changes to other database environments
- Understanding the database resources required to support a change
- Administering storage usage

DB2 Tools

- DB2 Administration Tool
- DB2 Object Comparison Tool
- DB2 Storage Management Utility



$\mathbb{R} \leftarrow \mathbb{A} \ltimes \leftarrow$

Utilities Management

KWHR

Reducing resources used for unloading, reloading, and REORGing data
 Automating utilities-related tasks to simplify maintenance for DBAs

KWHR

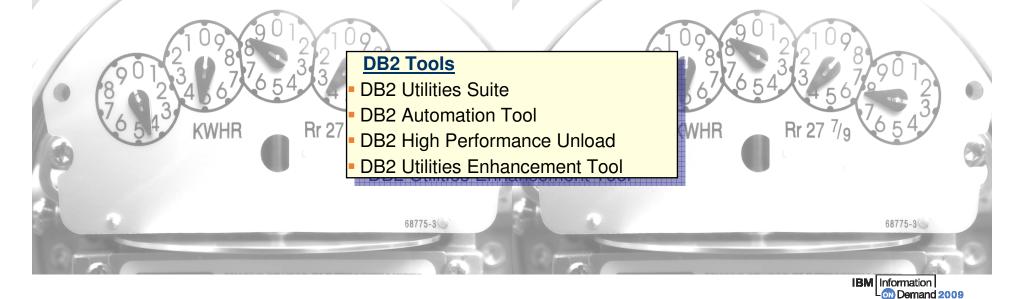
Rr 27 //g

Business Challenges

- Automating utilities-related tasks to simplify maintenance for DBAs
- Proactively preventing failures of utilities or applications

Rr 27 7/9

Achieving higher availability and performance of database applications



$\mathbb{R} \leftarrow \mathbb{V} \leftarrow$

Performance Management

Business Challenges

- Tuning SQL statements and database systems to improve performance
- Maximizing system resource utilization
- Setting alerts to know when performance thresholds are reached or exceeded
- End-to-end monitoring of your mission critical systems

DB2 Tools

- OMEGAMON XE DB2 Performance Expert
- DB2 Query Monitor
- DB2 SQL Performance Analyzer
- DB2 Buffer Pool Analyzer
- Optim Query Workload Tuner
- Optim pureQuery Runtime
- Optim Development Studio



Backup and Recovery

Business Challenges

Identifying resources that must be in place to ensure a proper recovery

- Determining which objects have been impacted by a failure
- Time spent to create and maintain disaster recovery scenarios

DB2 Tools

- DB2 Recovery Expert
- DB2 Log Analysis Tool
- DB2 Cloning Tool
- DB2 Change Accumulation Tool
- DB2 Object Restore Tool
- DB2 Archive Log Accelerator
- Application Recovery Tool for IMS and DB2 Databases

IBM Information Demand 2009



Data Governance/Data Security

Business Challenges

- Ensuring sensitive data is protected throughout the application lifecycle
- Validating that company processes comply with existing regulations like PCI
- Protection from Insiders privileged users -- is key

DB2 Tools

Optim Data Growth

Optim Data Privacy

Optim Test Data Management

DB2 Audit Management Expert

Encryption Tool for DB2 and IMS



Business Intelligence

Business Challenges

- Maintaining real-time warehousing information co-located near OLTP systems
- Need for performance, reliability and data security in warehouse systems
- Managing large volumes of data needed for query, reporting and analysis
- Making business decisions based upon analysis of data collected

DB2 Tools • Cognos for z/Linux • DataQuant • QMF





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Integrated Data Management

Product Spotlight: OMEGAMON XE for DB2 Performance Expert

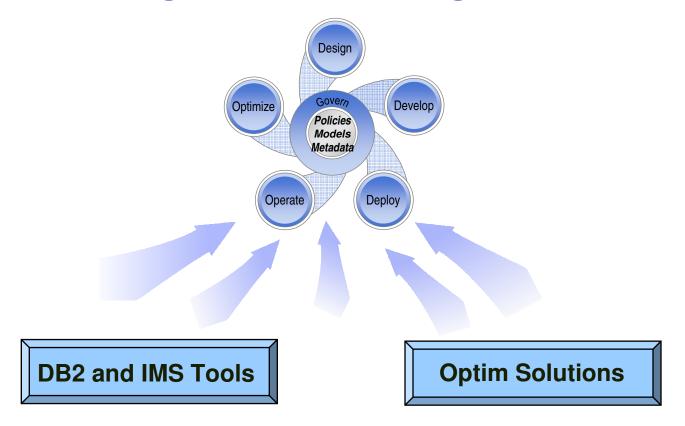
→Summary







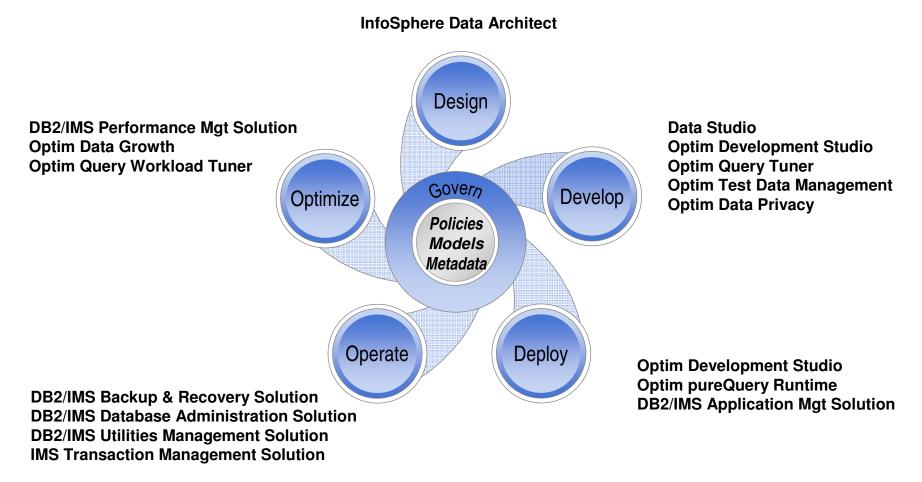
Solutions for Integrated Data Management



DB2/IMS Database Administration Solution DB2/IMS Backup & Recovery Solution DB2/IMS Utilities Management Solution IMS Transaction Management Solution DB2/IMS Data Governance Solution DB2/IMS Application Management Solution DB2/IMS Performance Management Solution Optim Test Data Management Optim Data Privacy Optim Data Growth InfoSphere Data Architect Optim Development Studio Optim pureQuery Runtime Optim Query Tuner Optim Query Workload Tuner



DB2 and IMS Solutions that manage the value of your data throughout its lifetime



DB2/IMS Data Governance Solution





Integrated Data Management Portfolio Strategy

Support for parallel development / administration models

- z/OS-specific
 - 3270-based user interfaces
 - Generation of JCL for job submission
 - Emphasis on rich z/OS function
- Cross-platform
 - Web-based and Eclipse-based user interfaces
 - Stored Procedures
 - Emphasis on heterogeneous database support

Clients may have a need to support both of these models

Provide cross-platform support and tool integration to simplify development and administration

- Develop for LUW and z/OS with InfoSphere Data Architect and Optim Development Studio
- Common z/OS and LUW UI for Optim Test Data Management, Data Privacy, and Data Growth Solutions
- Common Extended Insight end-to-end database monitoring leveraging OM/PE
- OM/PE and Query Monitor integration with Optim Query Tuner
- Continued investigation into integration opportunities



Integrated Data Management User Interface Directions

Optim Solutions

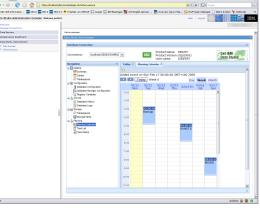
Eclipse UI

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Develop and Deploy

- Design and Development
- Configuration
- Object Management
- Change Management
- Automation Planning
- Data Governance

Web UI



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Operate

- Monitoring
- Automation Management
- Reporting

z/OS Database Administration

Rich z/OS function

z/OS Tools

- Application Management
- Database Administration
- Performance Management
- Data Governance





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Integrated Data Management

Product Spotlight: OMEGAMON XE for DB2 Performance Expert

→Summary







Drill-Down: OMEGAMON XE for DB2 Performance Expert

→DEMO





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Integrated Data Management

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Why IBM Tools?



→ **Reduce TCO** by optimizing IT staff efficiency

- Every product is developed with one goal; to lower the TCO of managing the DB2/IMS environment
- → IBM has a vision and is investing in a strategy for its tools
 - ▶ We introduced 3 DB tools in 2000 we have 100+ today
 - Continuous improvement of IBM tools over the last 7 years
- A comprehensive portfolio to manage, access, integrate and analyze data
 - Support and exploit DB2 V8, DB2 9, and IMS V10 today





Find out more about DB2 and DB2 Tools from IBM

- <u>http://www.ibm.com/software/data/db2/zos/family/</u> DB2 for z/OS Family – News, events, and highlights
- <u>http://www.ibm.com/software/data/db2imstools/products/db2-zos-tools.html</u>
 DB2 Tools for z/OS News, events, and highlights
- <u>http://www.ibm.com/software/data/db2imstools/db2tools-library.html</u>
 DB2 Tools for z/OS Brochures, technical manuals, data sheets, newsletters, and more
- <u>http://www.ibm.com/software/data/db2/</u>
 DB2 Product Family Offerings, highlights, and more
- <u>http://www.ibm.com/software/data/db2/9/</u>
 DB2 for LUW Family Offerings, highlights, and resources
- <u>http://www.ibm.com/software/data/db2imstools/products/db2-luw-tools.html</u>
 DB2 Tools for LUW News, events, and highlights





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→Q&A







