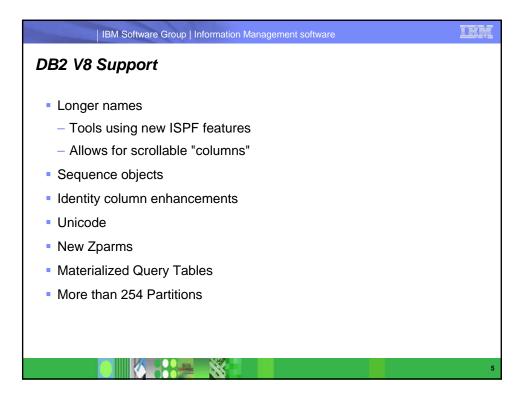
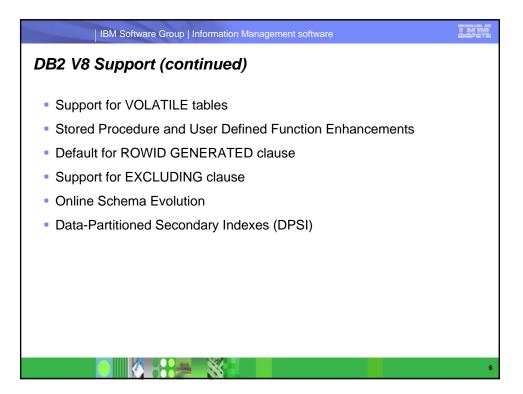
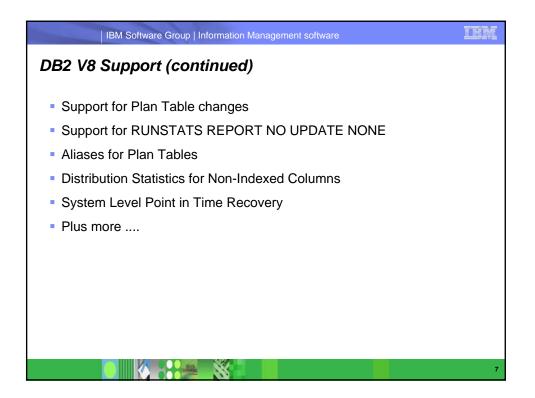
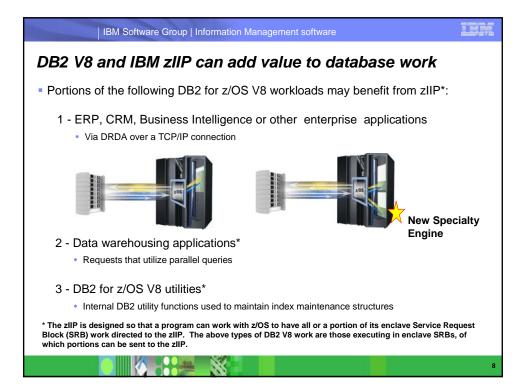


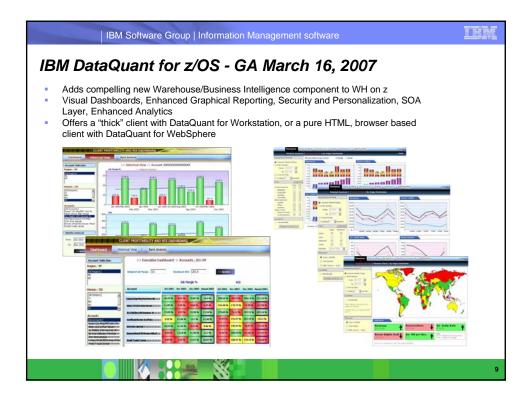
IBM Software Group   Information Management software	IBM
Key Attributes of the Tools Value in V8	
<ul> <li>A Mega-Release</li> <li>Our tools were there on <u>Day One</u> <ul> <li>All DB2 tools exploit DB2 V8 today</li> <li>Exploitation was developed early on and tested by ESP customers</li> <li>DB2 Tools had V8 function support since before DB2 V8 GA</li> <li>Major investment was required to get complete support in place</li> <li>Exploitation included new components to take advantage of new capabilities in DB2</li> </ul> </li> </ul>	
	4

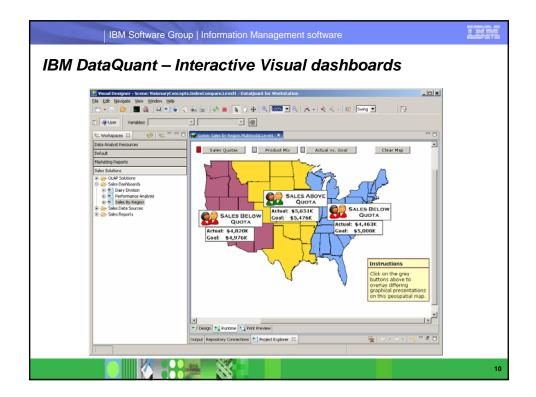


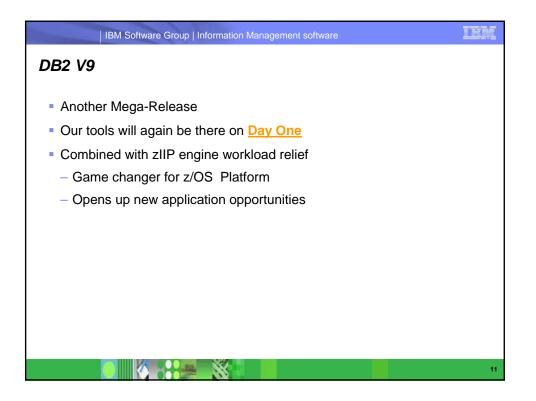




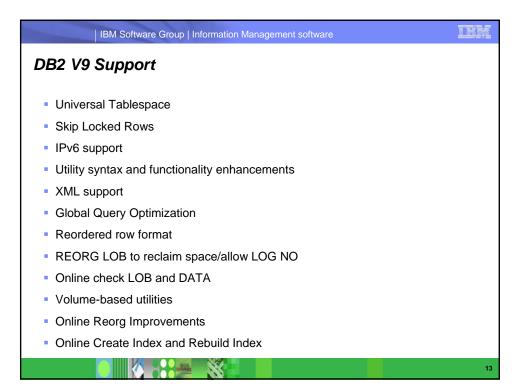




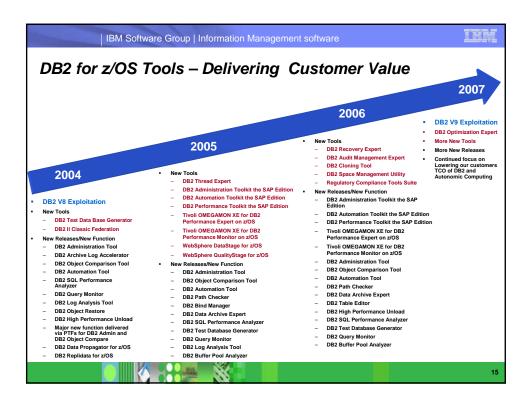


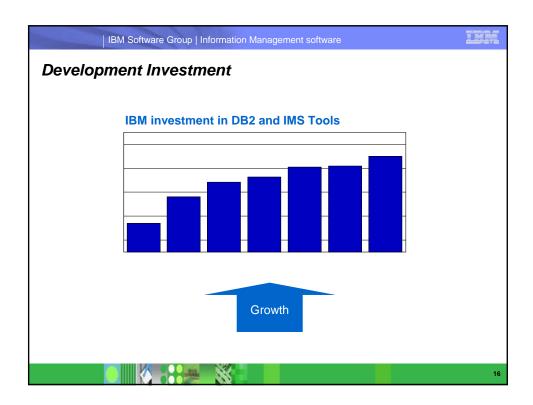


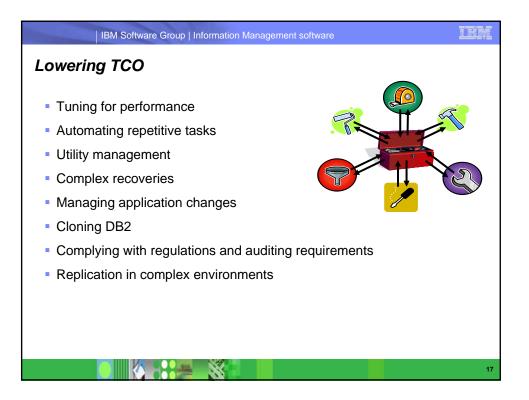
IBM Software Group   Information Management software	IBM
DB2 V9 Tools Support	
NOT LOGGED table support	
Clone table support	
Outage Analysis Items	
Decimal Float Datatype	
Utility Template Switching	
Index By Expression	
Partition By Growth Tablespaces	
BIGINT, VARBINARY, BINARY data types	
New Zparms	
	12



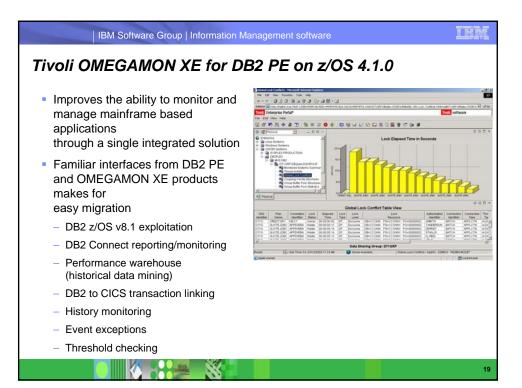
Business Analysis IBM DataQuant BBM DataQuant BBM QMF DB2 Web Query Tool Utilities Management DB2 Automation Toolkit SAP DB2 Cloning Tool DB2 Storage Management Uti DB2 High Performance Unload Application Manageme DB2 Path Checker DB2 Bind Manager DB2 Data Archive Expert DB2 Data Archive Expert DB2 Date Bind Gar	Application Recovery Tool for IMS and DB2 Databases     DB2 Archive Log Accelerator DB2 Change Accumulation Tool     DB2 Databases     DB2 Archive Log Accelerator     DB2 Buffer Pool Analyzer     DB2 Duffer Pool Analyzer
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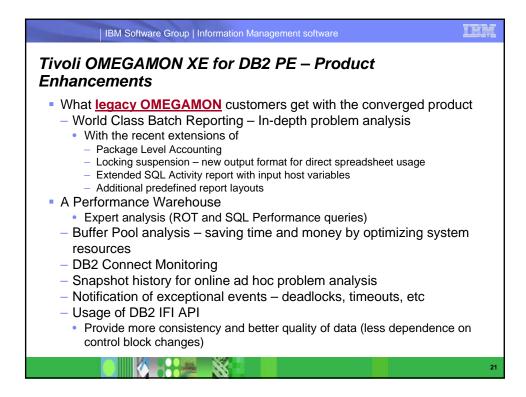




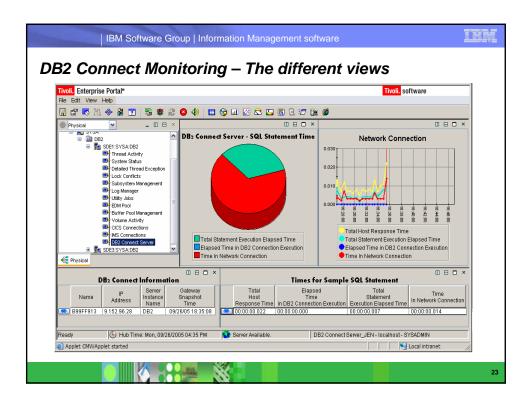




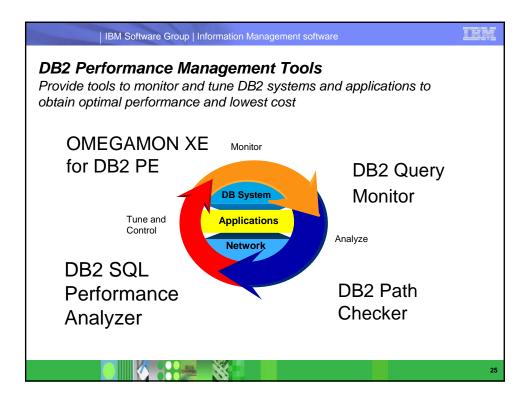
IBM Software Group   Information Management software	IBM
Tivoli OMEGAMON XE for DB2 PE – Product Enhancements	
What legacy DB2 PE customers get with the converged product	
<ul> <li>Integrated cross z-Series monitoring (enterprise wide)</li> </ul>	
<ul> <li>Near term history</li> </ul>	
<ul> <li>Object Analysis</li> </ul>	
<ul> <li>Smaller footprint (fewer address spaces)</li> </ul>	
<ul> <li>VTAM and Web Client</li> </ul>	
<ul> <li>Monitor DB2 messages and master console</li> </ul>	
<ul> <li>EDM pool (DBD,SK, CT etc section) content display</li> </ul>	
<ul> <li>18 other Customer requirements</li> </ul>	
<ul> <li>WLM enclave information for stored procedures</li> </ul>	
	20

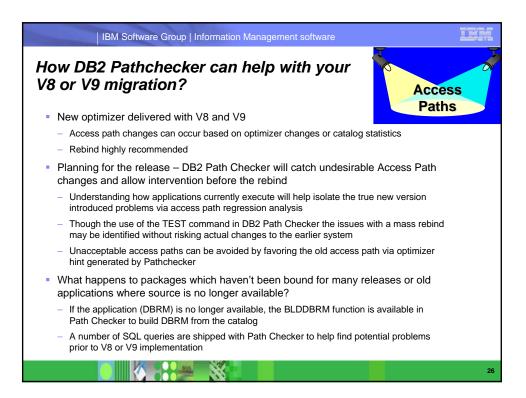


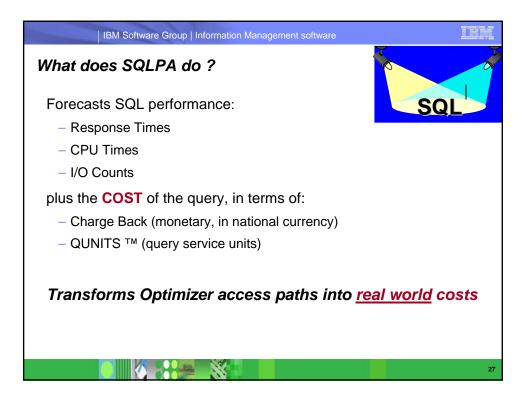
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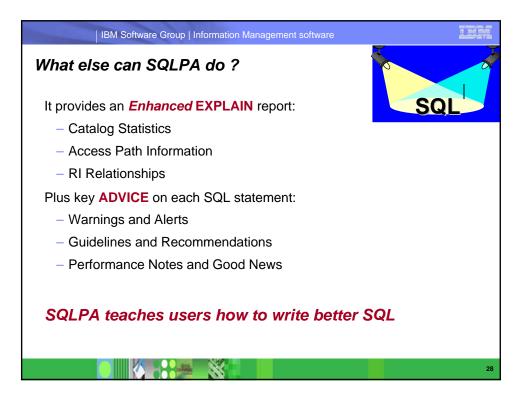


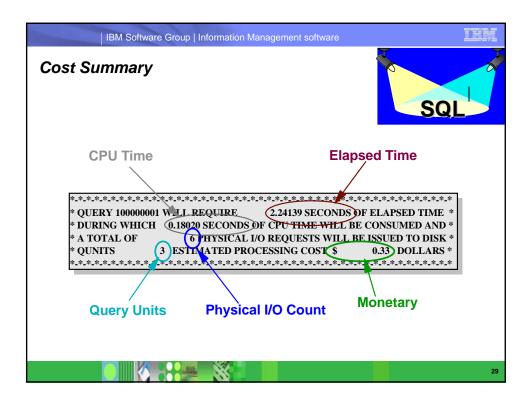
IBM Software Group   Information Management software	<u>sm</u>
OM PE 4.1.0	
As part of the OMEGAMON 4.1.0 family announcement <ul> <li>Globalization – Translation of the TEP GUI into 10 Languages</li> <li>Agent Versioning</li> <li>Dynamic Workspace Linkage (DWL)</li> </ul> Product-provided DWL (TEP GUI) providing greater System z monitoring integration between OMEGAMON XE for DB2 PM/ PE on z/OS and the following: <ul> <li>OMEGAMON XE on z/OS for threads running in enclaves</li> <li>OMEGAMON XE for CICS on z/OS for CICS DB2 threads</li> </ul>	J
<ul> <li>In addition</li> <li>OMPE 4.1.0 will support DB2 V9</li> <li>The enhanced thread overview will show additional lock information and changed pages (CASTOUT) in all Group Buffer Pools for faster problem analysis</li> <li>zIIP support with CPU offload and eligible zIIP CPU offload information</li> </ul>	
	24

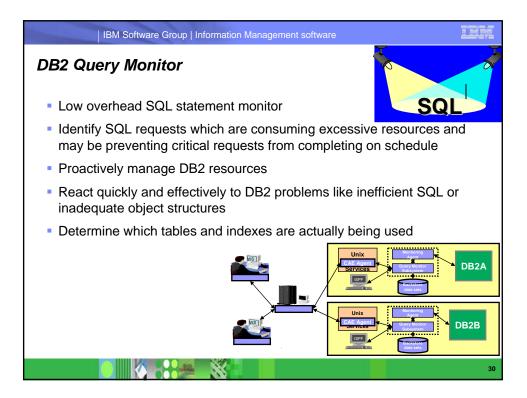


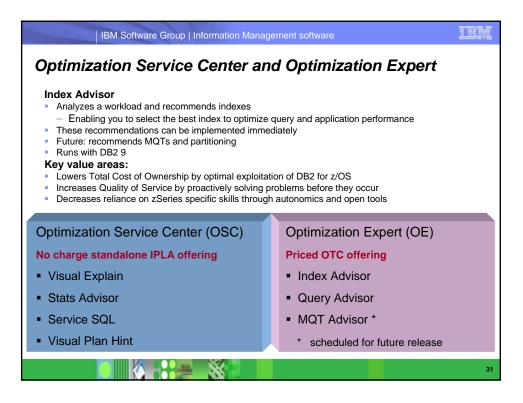




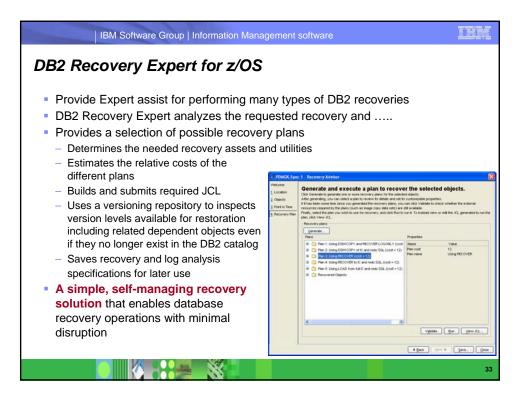




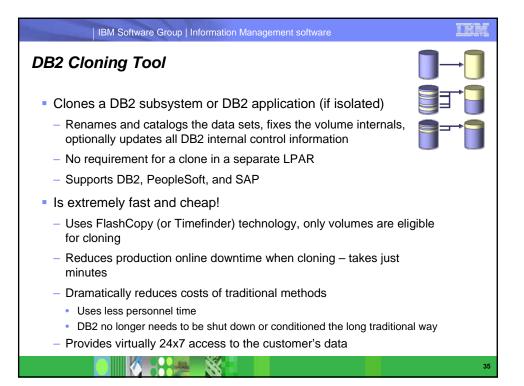


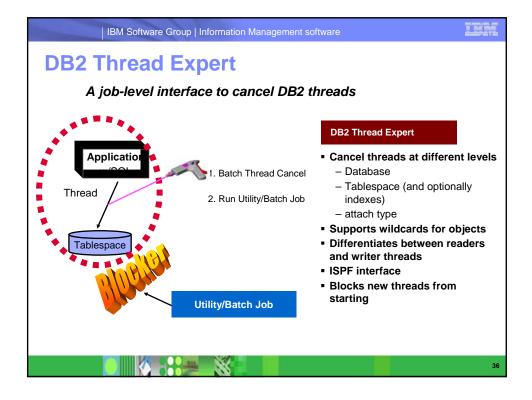


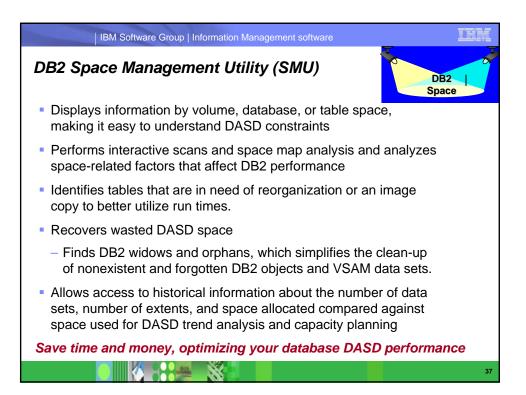
IBM Software Group   Information Management software
IBM DB2 Tools that help a successful migration to DB2 V9
<ul> <li>Run DB2 Path Checker in TEST mode to compare a "new" bind with the contents of the backup plan_table – and use this tool to allow for access path regression analysis</li> </ul>
<ul> <li>Using DB2 SQL PA, pass it the statements with different access paths to get costing and more detailed explain information</li> </ul>
<ul> <li>Run DB2 SQL PA in V8 – save the QLIMITS report and use to compare with the costing under DB2 V9</li> </ul>
<ul> <li>Use OMEGAMON XE DB2 Performance Expert to monitor existing V8 subsystem performance and provide performance baseline for post-migration analysis</li> </ul>
32

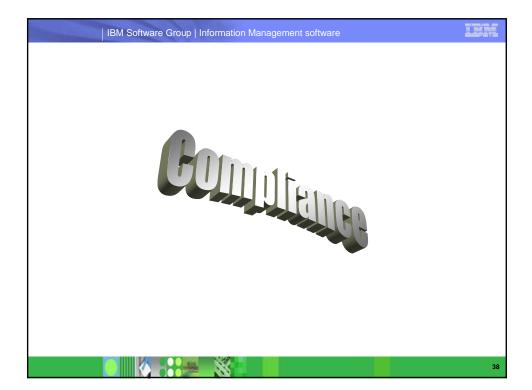


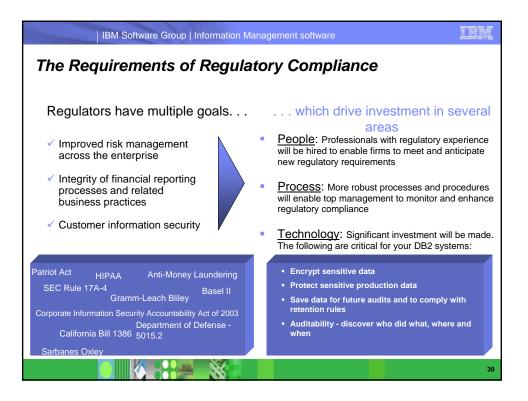
IBM Software Group   Information Management software
Database Change Management in DB2 Admin/DB2 Object Compare 7.2
<ul> <li>A collaborative change management process</li> <li>Changes are stored in a set of DB2 tables <ul> <li>Audit trail provided for changes</li> <li>Meta data now stored in DB2 (versions, masks, ignores)</li> </ul> </li> <li>Supports a collaborative Change Management process <ul> <li>Tool determines if another change for this object, or it's dependents, is in process</li> </ul> </li> </ul>
<ul> <li>User can join the changes, supersede it, ignore it, etc.</li> <li>Establishes a change ID for tracking purposes</li> <li>Tool then automates the steps</li> <li>Provides an easy interface to modify the existing object</li> <li>Automatically propagates the change to dependent objects</li> <li>Builds job streams to enact the change / User submits the jobs</li> <li>Provides an impact analysis report</li> <li>Changes can be promoted to other systems</li> </ul>
<ul> <li>Can create a new version file</li> <li>Virtual changes can be built on top of changes not yet deployed</li> </ul>



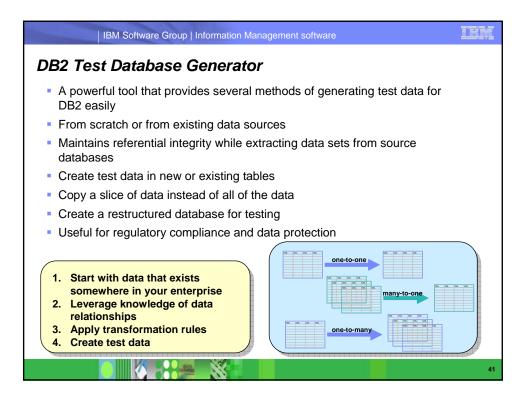




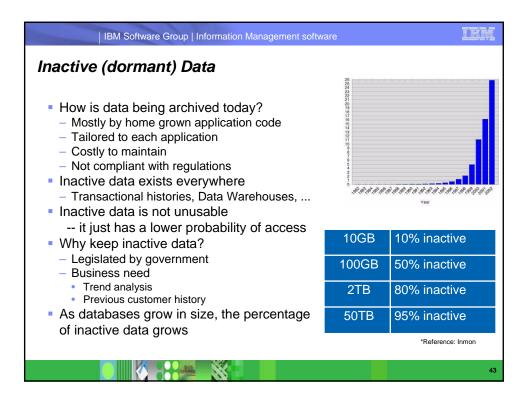


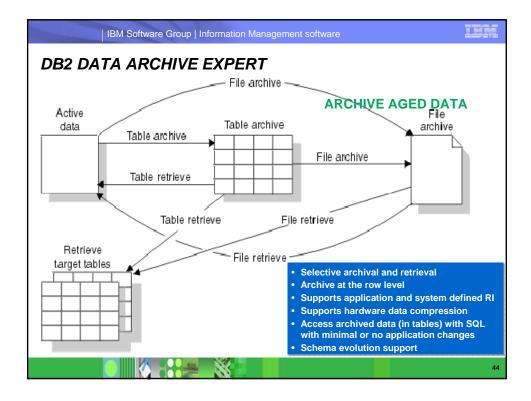


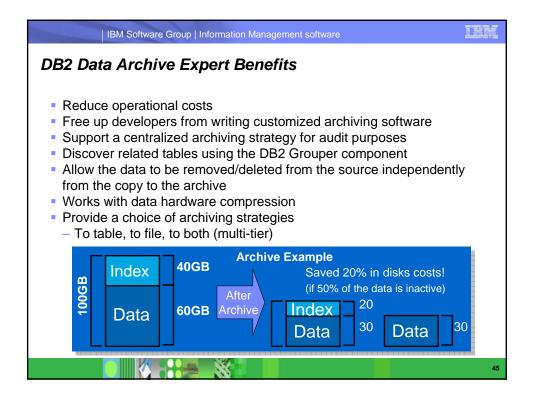
IBM Software Group   Information Management software
IBM Data Encryption for IMS and DB2 Databases
Row level encryption
Supports all levels of DB2 - no application changes needed
<ul> <li>Exploits System z and S/390 Crypto Hardware features, which results in low overhead encryption/decryption</li> </ul>
<ul> <li>Uses the ANSI Data Encryption Algorithm (DEA), also known as the U.S. National Institute of Science and Technology (NIST) Data Encryption Standard (DES) algorithm</li> </ul>
Supports both secure key and clear key encryption
Compatible with DB2 Load/Unload utilities and DB2 Tools
Performance is similar to row level data compression
http://www.ibm.com/software/data/db2imstools/db2tools/ibmencrypt.html
40



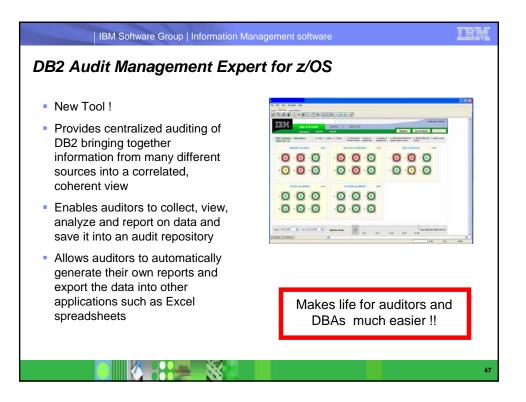
IBM Software Group   Information Management software	M
DB2 TDBG Examples	
<ul> <li>Create a target column ACCT_BALANCE which is a random number that falls within a specified range</li> </ul>	
<ul> <li>Create a target column that generates random values for positions 1-6 of a Social Security Number</li> </ul>	
<ul> <li>Create a target column that is exactly the PIN column with the 3rd and 5th positions replaced (masked) with the letter X</li> </ul>	
<ul> <li>A person's last name in a table has to be transformed into another name, but has to be a recognizable name.</li> </ul>	
<ul> <li>Generate a random number</li> </ul>	
<ul> <li>Use the generated number as a key to a "names" table</li> </ul>	
<ul> <li>Replace the original name with the one from the lookup table for the target</li> </ul>	
<ul> <li>The order number in a table has to be changed to another number. This should also be applied to any dependent tables</li> </ul>	
<ul> <li>Generate a random number. This is the key, so duplicate numbers are not allowed</li> </ul>	
<ul> <li>Make sure the dependent table has the same order number</li> </ul>	
	42



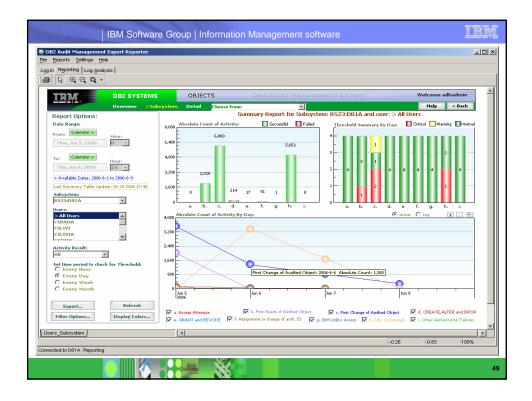


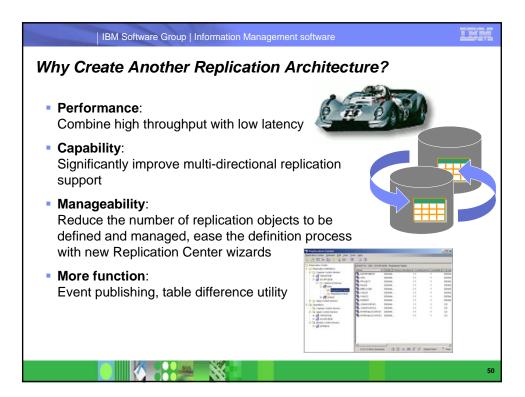


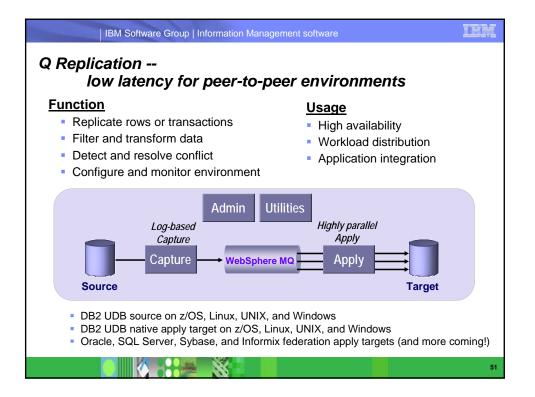
IBM Software Group   Information Management software	BM
Database Security	
<ul> <li>The assertion <ul> <li>Any business should know who is reading or changing their valuable information stored in their databases</li> </ul> </li> <li>For the DBA <ul> <li>Management said we have to audit access to tables with sensitive dat so get with the auditors and take care of it!</li> </ul> </li> <li>Now what ?? <ul> <li>Which Audit Trace classes do we start?</li> <li>What audit information do we want?</li> <li>Where do we put it?</li> <li>How many audit trace records will we produce?</li> <li>Do we run the Audit Trace all the time?</li> <li>How do we get reports from the Audit Trace data?</li> <li>What other sources of audit information is there?</li> <li>How do I set up enough reports to keep the Auditors busy?</li> <li>How do we get the Auditors to do this?</li> <li>How much of my time will I have to spend with the Auditors?</li> </ul> </li> </ul>	:a,
	46



IBM Software Group   Information Management software	IBM
Audit Management Expert Overview	
<ul> <li>Collects and correlates information from DB2 resources <ul> <li>Audit Trace Data, Log Analysis data</li> <li>Turns on appropriate audit trace types based on collection profiles</li> </ul> </li> <li>Provides a central resource for auditors to produce a coherent view of DB2 access information</li> <li>Auditors will be able to Access: <ul> <li>SELECT, INSERT, UPDATE, and DELETE activity by user or by object</li> <li>CREATE, ALTER, and DROP operations against an audited object</li> <li>Utility access to an audited object</li> <li>DB2 commands entered</li> <li>Assignment or modification of an authorization ID</li> </ul> </li> <li>Provides auditors with flexible options for examining the data in the audit repository</li> </ul>	
	48







IBM Software Group   Information Management softw	vare
Summary	
<ul> <li>Comprehensive cross-platform integrated tools with common interfaces</li> <li>Improving TCO and Time to Value         <ul> <li>Database servers have "Day 1" support by tools at GA</li> <li>Improve productivity of DBAs and the database servers</li> <li>Frequent delivery of versions and releases to address customer requirements quickly</li> </ul> </li> <li>Improving TCO by providing functions that let you         <ul> <li>Manage bigger environments without adding staff</li> <li>Focus on business value rather than maintenance</li> <li>Avoid tedious tasks</li> <li>Reduce errors</li> <li>Enable people with less experience to be productive - fast</li> </ul> </li> <li>With IBM Tools you have a long-term commitment to DB2 and IMS Customers</li> </ul>	350,000 300,000 250,000 150,000 50,000 0 yr 1 yr 2 yr 3 yr 4 yr 5
	52

