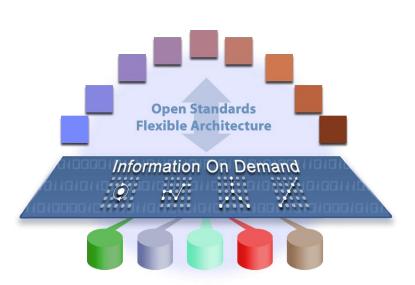


Information Management

Information On Demand

Unlocking the Business Value of Information for Competitive Advantage







Information On Demand

Unlocking the Business Value of Information for Competitive Advantage

Customer & Product **Profitability**

Workforce **Financial**

Dynamic Risk Insight Optimization Supply Chain Multi-Channel Marketing **Business Optimization**

Better Business **Outcomes**



Plan, understand and optimize business performance

End-to-End **Capabilities**



Establish, Govern, and **Deliver Trusted Information**

Flexible Architecture for Leveraging Existing Investments



Content-driven Processes

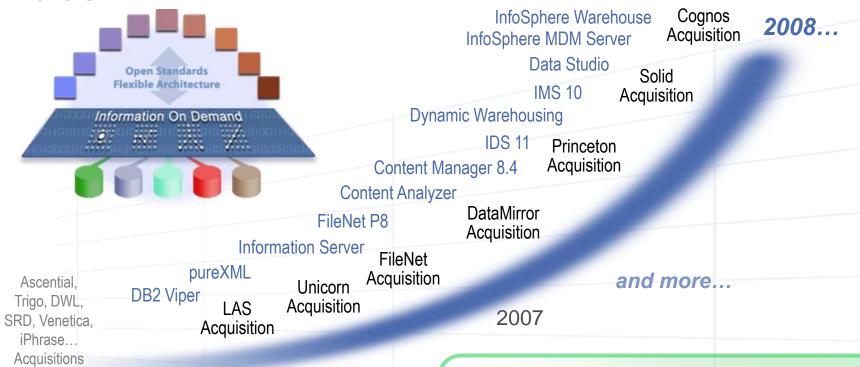
Information Sources

Content Management

Manage information over its lifetime and Optimize content-based processes



Information On Demand Acquisitions and Continued Innovation Drive Increased Value



Delivering End-to-End Capabilities

Data Management
Enterprise Content Management
Information Integration, Warehousing & Management
Business Intelligence & Performance Management



2005

2006

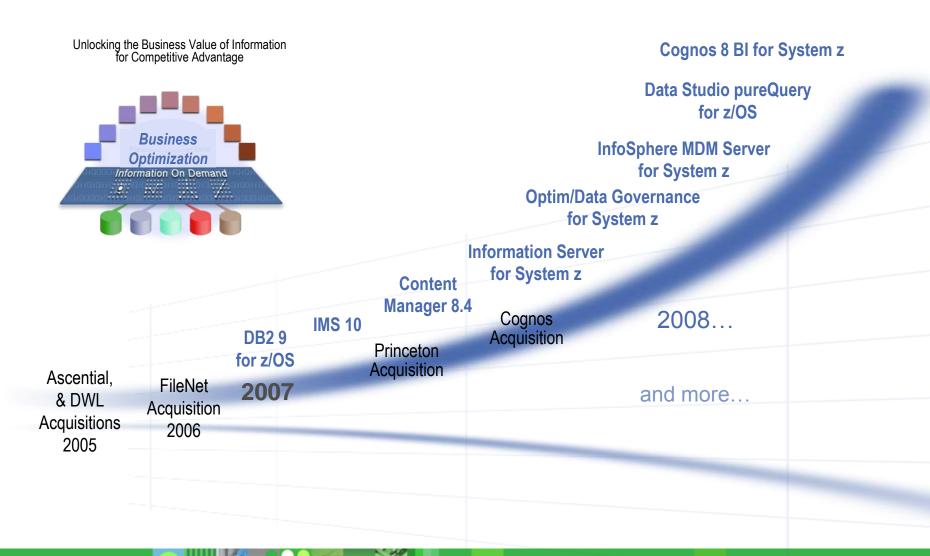
Public Launch

of IOD



Information On Demand

Investment, Innovation and Deliveries Drive New Capabilities for System z





A Multitude of Information Projects Each successful in its own right; but limited speed and flexibility...

Large Global Bank

- 5 data warehouse projects in 5 years
- Large customer call center deployment
- Reengineered CIF System
- Millions invested



"I still can't sleep at night;
I don't have a real time and accurate view into my risk posture" - Chief Risk Officer

"I still can't tell you who our most profitable customers are, let alone serve them well across my channels" - Chief Information Officer



Multi-channel Apparel Retailer

- 3 brick & mortar and 1 web channel
- Multiple customer loyalty systems
- Multiple call centers
- 1 credit card

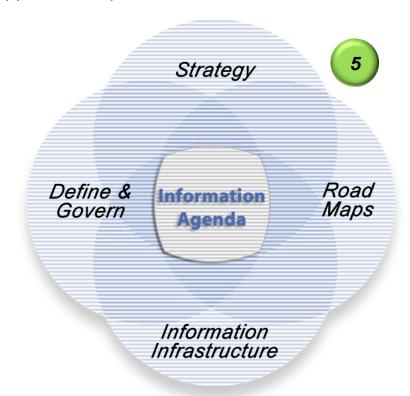


Becoming an Information Based Enterprise... Information Agenda: The 5th entry point of Information On Demand

Creating an information agenda helps transform information into a trusted strategic asset that can be rapidly leveraged across applications, processes and decisions for sustained competitive advantage.

Current State
Information
Intensive
Projects

Highly justified projects



Desired State
Flexibility
& Speed

Sustained competitive advantage





IMS 10

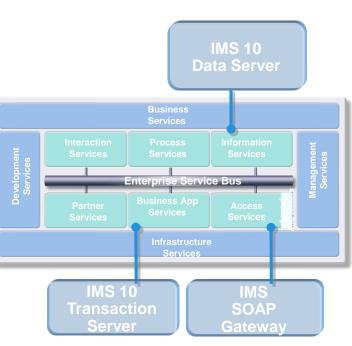
Reduce management cost and accelerate use of data

Accelerate Integration in a Service Oriented Architecture

- Enable IMS as client and server to participate in SOA environments
- XQuery support and broader XML and Java Tools
- Reusable IMS services for SOA business flexibility
- Easier to expose IMS transactions as web services
- Application Connectivity Reduced time/cost to integapplications

Reduce operational costs

- Simplified development reduces time to value
- Enhanced commands ease operations management
- IMS tools suite enhanced and ready for IMS 10





IMS SOA Program – 3 Steps

STEP 1 - 1 Day Regional Multi-Customer Seminar

- IMS SOA Overview
- Awareness and High-level Education Process and tools
- CTA: On-site workshop

STEP 2
1 Day On-site
Customer Workshop

- Cross BU Awareness and Education
 MF and Open Systems A/D teams
- Answer their specific questions
- CTA: Identify SOA Project

Step 3+
Support IMS SOA Project
Consulting Svcs

- Design, develop and deploy new services quickly
- Advocates keep in touch
- CTA: Customer reference



Announcing IMS 11

Increased business flexibility for SOA environments

- Open Database Support
 - Allows any application on any platform to access IMS data directly and transparently
- Enhanced Application Development Tooling
 - Easier application development and modernization
- Autonomic Computing Capabilities
 - Relieve skill constraints
- Raising the Performance Bar Again
 - Extreme performance with greater than 22,000 transactions/secor







DB2 9 for z/OS

Addressing Corporate Data Goals

SOA Enablement

- pureXML
- Optimistic locking for WebSphere
- LOB performance, usability



Dynamic Warehousing

- Many SQL improvements
- Dynamic index ANDing
- Histogram statistics
- New built-in OLAP expressions
- Optimization Service Center



Simplification , Reduced TCO

- Index compression
- Partition By Growth tables
- Cloned tables
- Volume based backup / recovery



Consolidatio

- More online schema changes
- Online REBUILD INDEX
- Trusted context and ROLEs









DB2 for z/OS with the z10 and z/OS

System z innovation, raising the IT bar and taking System z to the next level of...

... scalability and performance

- z10 CPUs, memory, I/O and network bandwidth means:
 - Significantly improved SQL performance
 - Improved connectivity for remote apps, especially batch inserts

for large queries

- Reduced allocation and catalog overhead
- Infiniband CF links, HiperDispatch
- More efficient disk usage minimizes disk constraints
- More efficient XML parsing
 - Up to 30% performance improvement
 - Up to 100% XML parsing on zIIP / zAAP
- Hash DSAB Searches brings faster startup/restart
- Basic HyperSwap
- zIIP assisted XRC





DB2 X for z/OS At a Glance Addressing Corporate Data Goals

| Application |
|--------------------|
| Enablement |

- Temporal queries
- pureXML enhancements
- Generated columns
- Last Committed reads
- SQL improvements that simplify porting

RAS, Performance, Scalability, Security

- Wide range of performance improvements
- More online schema changes
- Catalog restructure for improved concurrency
- Fine grained access control
- Hash access to data
- New DBA privileges with finer granularity

Simplification, Reduced TCO

- Full 64-bit SQL runtime
- Auto stats
- Data compression on the fly
- Query stability enhancements
- Reduced need for REORG
- Utilities enhancements

Dynamic Warehousing

- Moving sum, moving average
- Many query optimization improvements
- Query parallelism improvements
- Advanced query acceleration



DB2 for z/OS Value Unit Edition - OVERVIEW

- Drive Net New Workload Growth on new and existing DB2 for z/OS
 - Offering DB2 for z/OS as OTC for qualified workloads
 - Available today for DB2 V8 and DB2 V9
 - Net new workloads limited to those that qualify for zNALC
 - For example: commercial packaged applications, data warehouses, and WebSphere applications running in a partition, machine, or sysplex
 - Available for on a standalone machine or restricted LPAR.
- Strengthens System z's role as a cornerstone for key business initiatives
 - Service-oriented architecture (SOA), Web-based applications, and pureXML; Data warehousing and operational business intelligence (BI); and Commercial (packaged) applications such as SAP, PeopleSoft, and Siebel.



IMS Tools Solution Portfolio

- Data Encryption for IMS and DB2 DBs
- IMS Database Repair Facility
- IMS HALDB Conversion and Maint. Aid
- IMS HD Compression-Extended
- IMS Library Integrity Utilities
- IMS Online Reorganization Facility
- IMS Parameter Manager
- IMS Sequential Randomizer Generator
- IMS Sysplex Manager
- IMS Tools Knowledge Base

- IMS High Performance Fast Path Utilities
- IMS High Performance Load
- IMS High Performance Pointer Checker
- IMS High Performance Prefix Resolution
- IMS High Performance Unload
- IMS Index Builder
- IMS Parallel Reorganization
- IMS Database Control Suite

- IMS Application Recovery Tool for IMS and DB2 Databases
- IMS Database Recovery Facility
- IMS DEDB Fast Recovery
- IMS High Perf Image Copy
- IMS High Perf Change Accumulation

End to End Management

Utility Management

Recovery Management

IMS TOOLS

Performance Management

Data Base Administration

- IMS Buffer Pool Analyzer
- IMS Network Compression Facility
- IMS Performance Analyzer
- IMS Problem Investigator
- Tivoli OMEGAMON XE for IMS

TM Management

- IMS Command Control Facility
- IMS ETO Support
- IMS HP Sysgen Tools
- IMS Queue Control Facility

Application Management

- IMS Batch Terminal Simulator
- IMS Batch Backout Manager
- IMS Connect Extensions
- IMS MFS Reversal Utilities
- IMS Program Restart Facility



DB2 Tools Solution Portfolio

- DB2 Administration Tool
- DB2 Object Comparison Tool
- Data Encryption for DB2 and IMS
- DB2 Utilities Enhancement Tool
- •DB2 Admin. Toolkit SAP Ed.
- DB2 Audit Management Expert
- DB2 Change Management Expension
- IBM Database Encryption Expert

Data Base Administration

- DB2 Utilities Suite
- DB2 Automation Tool
- •DB2 Automation Toolkit SAP Ed.
- DB2 Cloning Tool
- DB2 Storage Management Utility
- DB2 High Performance Unload

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

End to End Management

Utility Management

Recovery Management

DB2 TOOLS

Performance Management Information Integration / Business Analysis

Application Management

- OMEGAMON XE DB2 Perf. Expert
- •OMEGAMON XE DB2 Perf. Monitor
- DB2 Buffer Pool Analyzer
- DB2 Optimization Expert
- DB2 Query Monitor
- DB2 SQL Performance Analyzer
- DB2 Performance Toolkit SAP Ed.
- DB2 Performance Expert

- IBM DataQuant
- •IBM QMF
- DB2 Web Query Tool
- •WebSphere Classic Data Event Pub.
- WebSphere Classic Federation Server
- WebSphere Classic Replication Server
- WebSphere Data Event Publisher
- WebSphere DataStage
- WebSphere QualityStage
- WebSphere Replication Serve

- •DB2 Path Checker
- DB2 Bind Manager
- •DB2 Table Editor
- DB2 Test Database Generator

- Available on zSeries Linux/UNIX/Windows

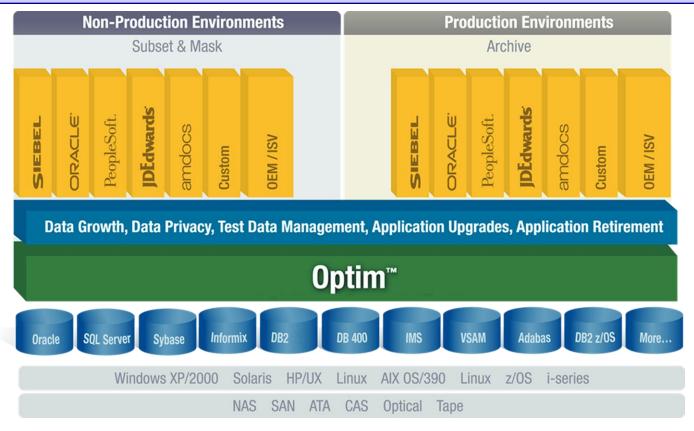
Available on zSeries and Linux/UNIX/Windows

- Only available on



IBM Optim[™] Innovation to manage the lifecycle of data

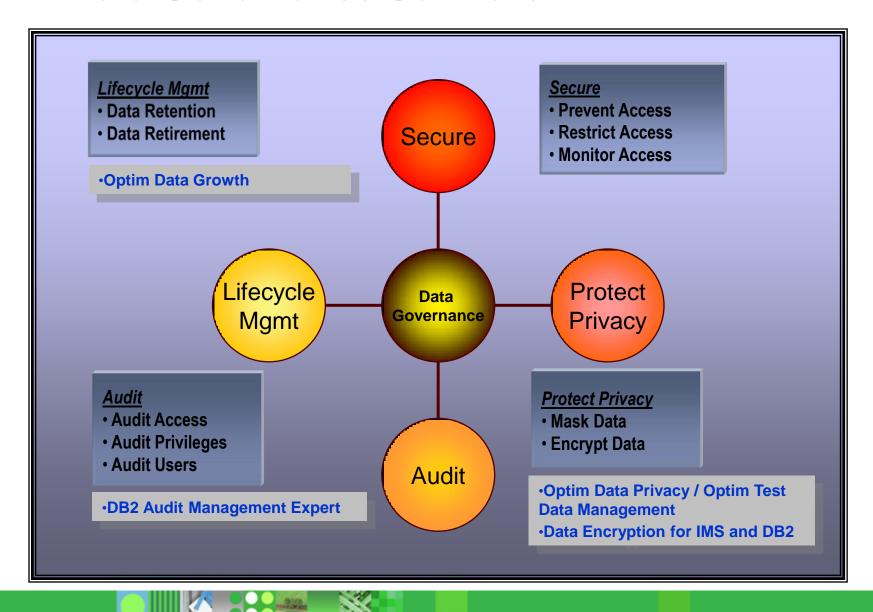
Scalable solution provides a central point to deploy policies and to extract, store, port, and protect application data





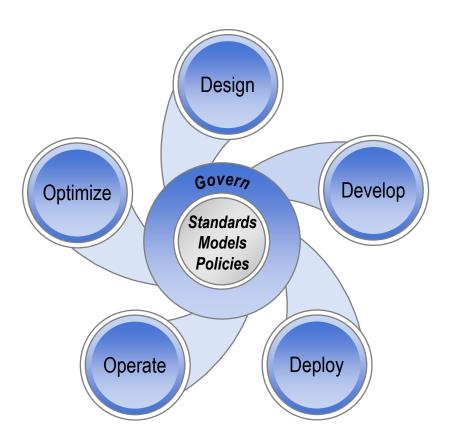


IBM Data Governance Software





Manage data across the lifespan - from design to delete

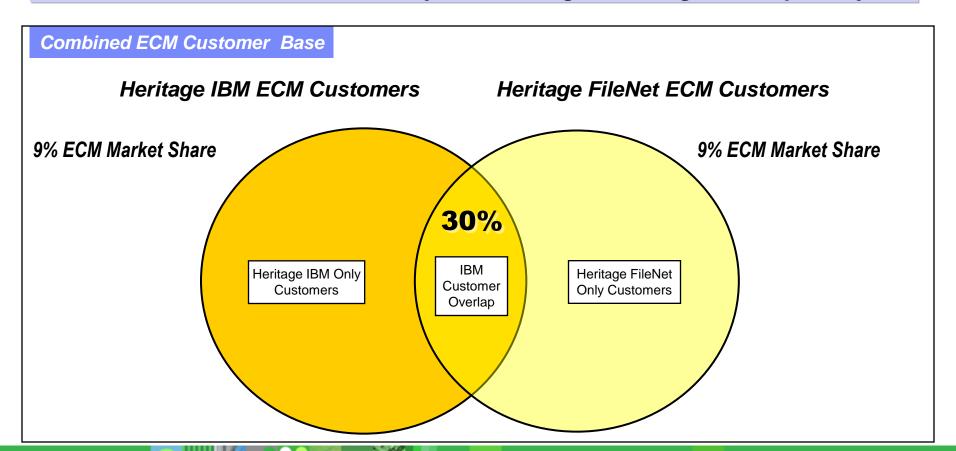


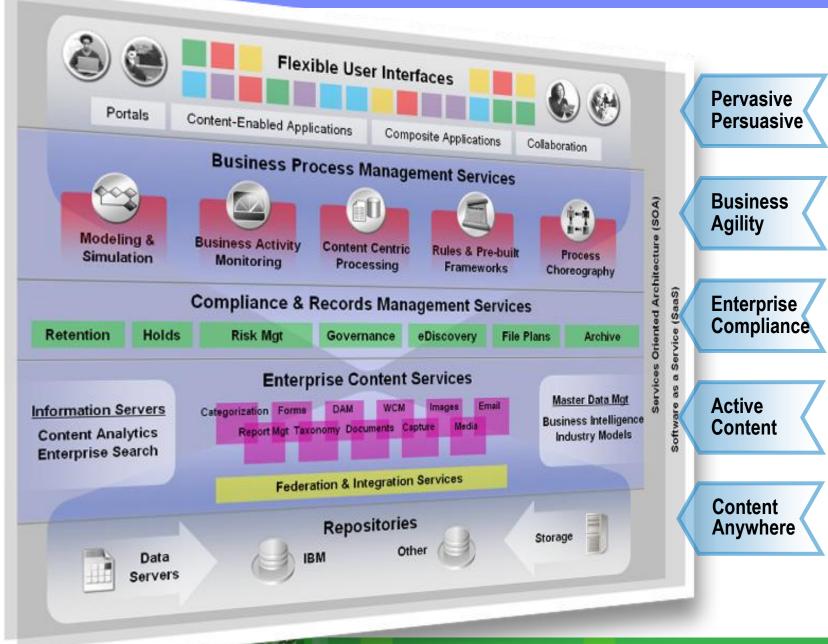
- The depth and breadth for virtually every business requirement
 - For information on System z and nearly every other platform
- Exceed business requirements for the toughest IT challenges such as Data Governance, Data Warehousing, Performance Management and more
- Deliver increased information availability with improved manageability



Our ECM Strategy supports our Installed Customer Base

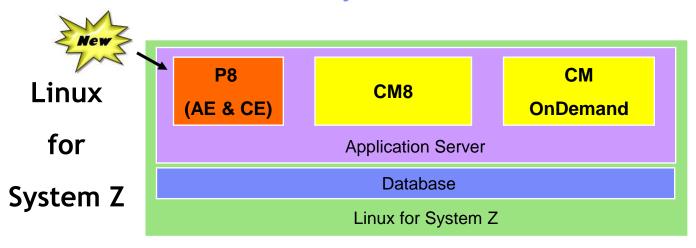
- Significant Installed Customer Base that have both CM v8 and P8
- Significant Customer Investments across CM v8 and P8
- Existing Customers are critical to IBM ECM's success
- Extend Customer Investments by introducing new integrated capability

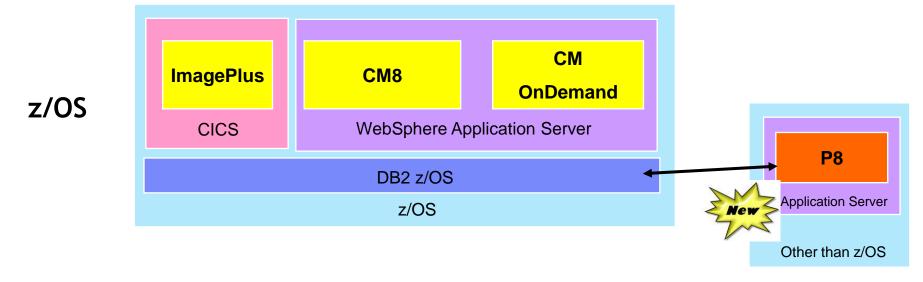






ECM Products on System z







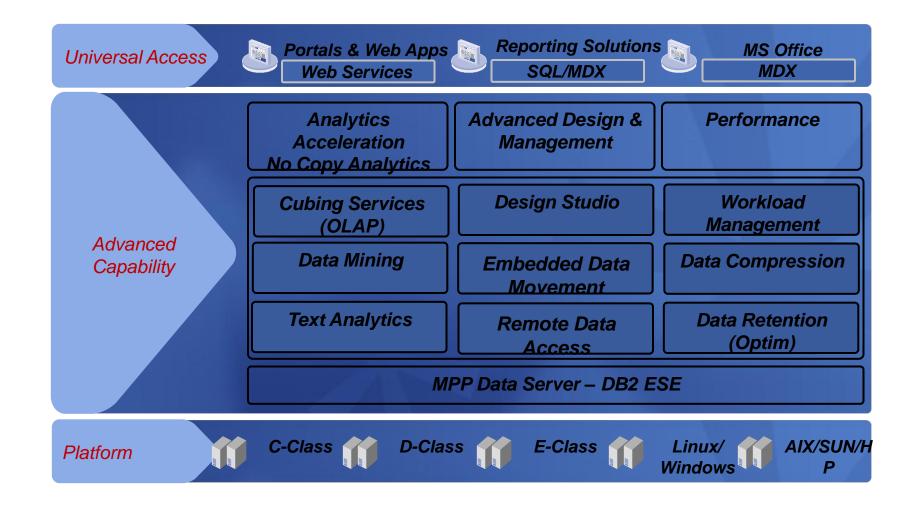
Trends in Enterprise Data Warehousing and Business Intelligence (BI)

- Resurging interest in Data Warehousing and BI on System z due to core strengths
 - Co-locate with operational information to minimize data duplication & movement
 - Improve control and availability for critical business information
- BI platform standardization
 - Reduce loose collection of individual BI tools
 - BI platform accessed via a browser-based thin client
- Operational BI (aka: Operational Intelligence)
- Information as a service (SOA) initiatives





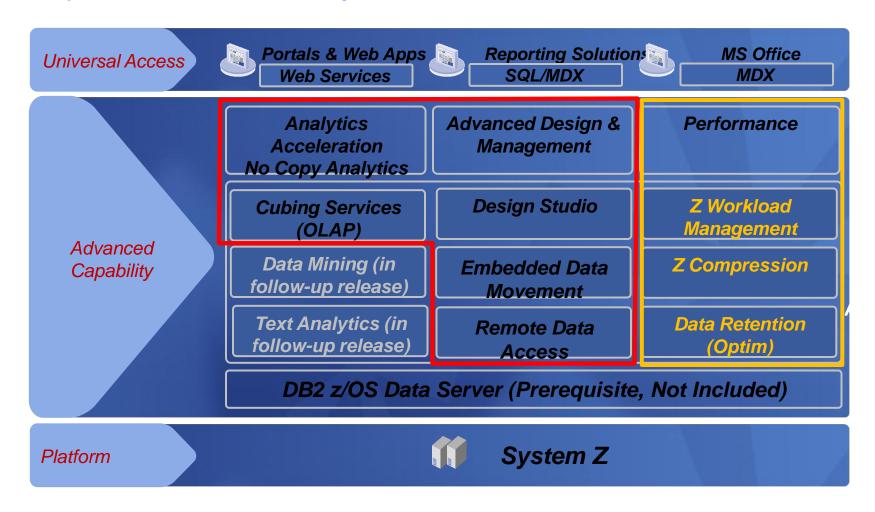
InfoSphere Warehouse 9.5 for LUW





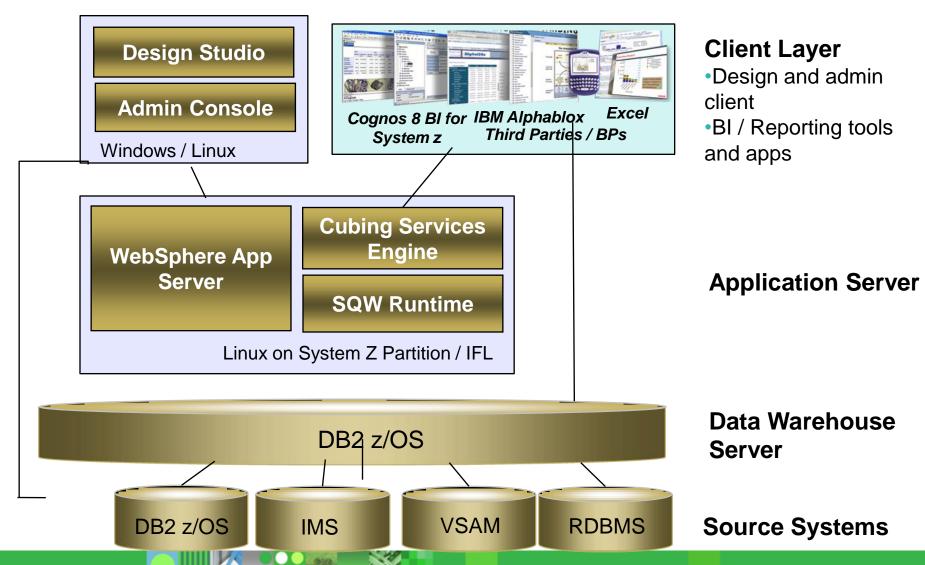
Extend InfoSphere Warehouse to System Z

InfoSphere Warehouse for System Z Edition 9.5





Complete Solution High Level Component Architecture InfoSphere Warehouse for System Z



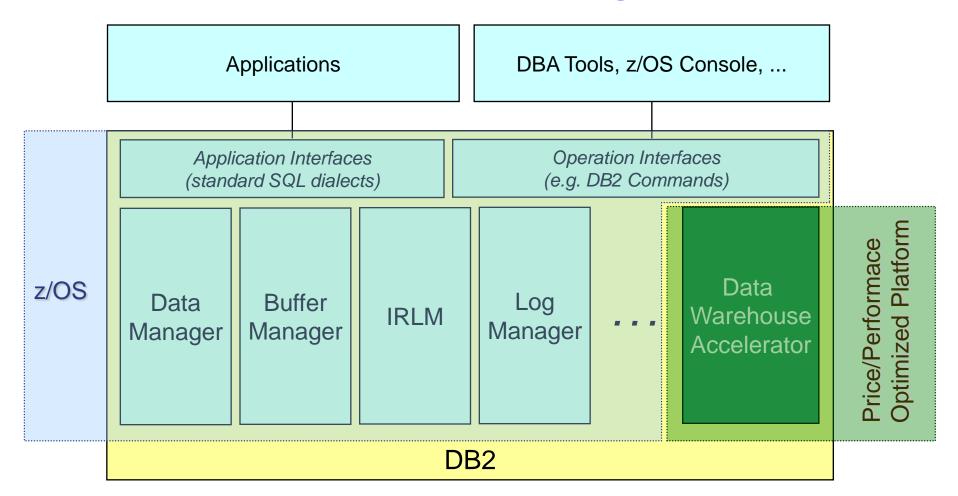


Data Warehouse Accelerator

- A special purpose, network attached x86 accelerator system.
 - Offload typical DW queries from traditional database server
 - Based on research prototype
 - No changes to the applications
 - DB2 transparently exploits the accelerator for applicable queries
- Improving performance of typical DW queries 5-10 times
- Achieving linear scaling with the number of CPUs
- Reducing need for tedious tuning of DB2 (MQTs, indexes, etc.)
- Significant price/performance and TCO improvement
 - Offloading very CPU intensive operations from System z
 - Using commodity hardware
 - Order of magnitude performance improvement for offloaded queries
 - Reduced DBA effort for tuning offloaded queries
- Appliance-like form-factor
 - User/reference guide assisted installation, initial configuration
 - Hands free operations



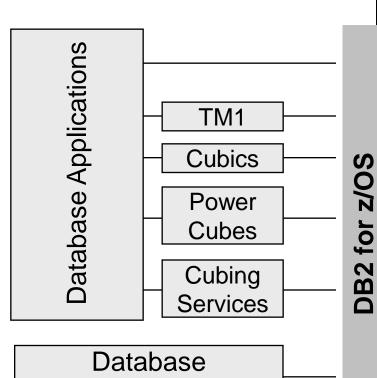
DWA - A New DB2 Resource Manager



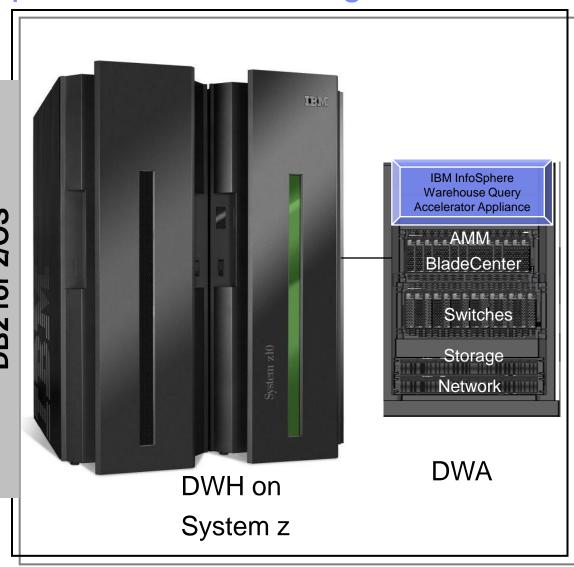


Adding DWA Is Transparent to the Existing

Environment



Administration





Cognos 8 BI

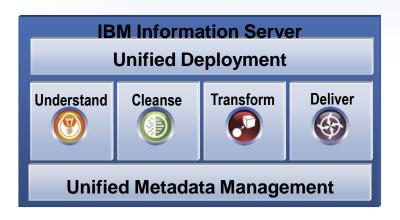
Information

Server

InfoSphere Information Server for System z

Accelerating the delivery of trusted information

Profile, cleanse, and transform information from heterogeneous data sources to drive greater business insight



- Significant cost savings on System z
- Scalable to any volume and processing requirements
- Fully integrated, auditable data quality
- Metadata-driven integration for increased productivity

AIG chose InfoSphere Information Server to modernize their financial reporting system to create a scalable and extensible solution that tightly integrates with SAP on System z

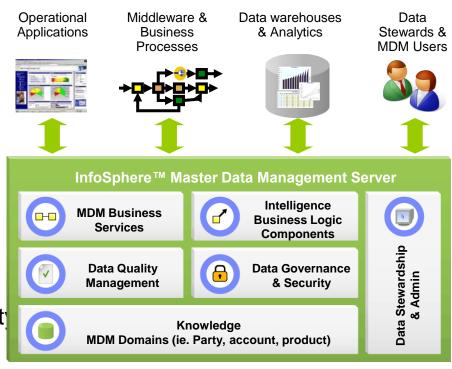




InfoSphere MDM Server for System z

The first multi-domain, multi-function MDM product in the market

- Packaged to address all types of MDM implementations
 - From small "registry" projects to strategic "transaction-hub" deployments
 - Allows clients to grow as required by implementing existing functionality
 - Significantly lowers client risk and time/cost to implement
- Enables a SOA Library
 - 800 pre-packaged business services
 - Significant out of the box functionality
 - Reduces total cost of ownership
- Provides leading performance & scalabilit





Cognos BI for System z

- Full range of BI capabilities
 - All user communities receive relevant information how, when and where it is needed
- Open enterprise-class platform
 - Flexibility and cost effectively scalability to meet growing user demands across any platform
- Frameworks and proven practices
 - Projects get off to the right start with expertise to ensure success on the journey to performance management







"This provides a single, real-time and consolidated view of business information to support operational processes and disperse information to the right teams across the company for more effective-decision making."

Hemant Kulkarni, Head, BI Technology CoE, Satyam



IBM Cognos 8 BI for Linux on System z

Product Capabilities

- Adhoc query, reporting and analysis (Query Studio, Report Studio & Analysis Studio)
- Dashboards and charting (Cognos Connection & Report Viewer)
- Event management (Event Studio)
- Integration with Microsoft Office (Go! Office and CAFÉ)
- Cube building (Transformer)

Initial Conformance

Operating System: •Suse 10 Linux

Database Support: •DB2 z/OS 8 and 9

•DB2 LUW 9.5 •Oracle 10q

Application Server: •Apache Tomcat

•WebSphere 6.109

Content Store: •Derby on Linux for System z

•DB2 9.5 LUW •Oracle 10g

Directory Server: •Netscape Directory Server 6

Sun ONE Directory Server 5.1 SP1, 5.2
IBM Tivoli Directory Server 5.2, 6.0
Novell e-Directory Server 8.7.3

•LDAP version 3 compliant server

Web Server: •IBM HTTP server 2.0

Not included in this initial release are Scorecards (Metric Studio), ,output delivery to mobile devices (Go! Mobile), and integration with enterprise search (Go! Search)



Accelerating Your Information Agenda

Recent Announcements result from \$1B+ investment & experience from thousands of client projects





Foundational Tools

Software to help you convert your information into a trusted strategic asset



Information On Demand Competency Centers

Services to help you build information centers of excellence





Information Agenda Guides & Workshops

Industry tailored sessions to guide future state design, identification of key information requirements and gap analysis



Information Accelerators

Industry specific assets to speed deployment





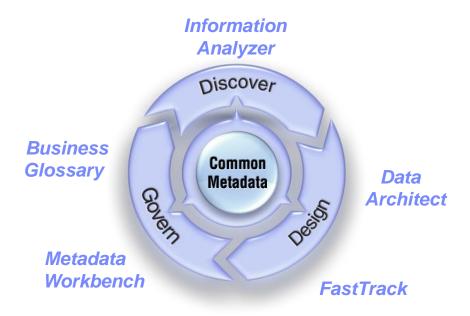
New

Foundational Tools

Software to help convert your information into a trusted strategic asset

Open tools that provide value to any data integration, business intelligence, or data warehouse projects...

Only IBM has invested to provide the breadth of capabilities to define and govern your information...



- Discover, understand and relate the data you have to your business
- Design your trusted information structure
- Govern your information over time



Information Agenda Guides & Workshops

New Industry tailored sessions to guide future state design, identification of key information requirements gap analysis

Banking, Financial Markets & Insurance Guides

- Banking Information Agenda Guide
- Insurance Information Agenda Guide

Industrial & Manufacturing Guides

- Automobile
- Aerospace
- Electronics
- Industrial Products
- Chemical & Petroleum*

Retail Guide

Consumer Products Guide

Travel & Transportation Guide*

Energy & Utilities Guide*

Healthcare & Life Sciences Guides

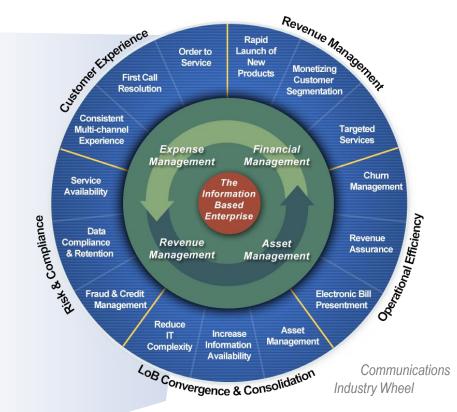
- Payer
- Provider
- Pharma

Comm. Service Provider Guide

Media & Entertainment Guide*

Government Guides

- Federal
- State & Local Government



Workshops & Guides...

- Workbook and Roadmap Templates
- Information Governance Best Practices
- Led by Subject Matter Experts across IBM





Information Accelerators

140+ Industry-specific Assets to speed deployment



Financial Services

- Risk Adjusted Profitability
- Branch Performance
- Retail Banking Customer Segment Performance
- Corporate Banking Customer Segment Performance...



Insurance

- Product Profitability
- Claims Submission Optimization
- Insurance Self Service
- Insurance Scorecard...



Retail

- Store Development
- Strategic Promotions
- Financial Merchandising
- Financial Workbench & Scorecard...



Industrial

- Sales & Operation Planning
- Allocations Optimization
- Risk Analysis
- Trade Promotion Management
- Asset Management...



Telco

- Customer Service
- Customer Billing
- Compliance
- Simple Order...



Energy & Utilities

- Intelligent Utility Network
- Asset Plant Lifecycle Mgmt.
- Central Engineering
- Rate Case
- Aging Workforce
- Violations...



Government

- Crime Information Warehouse
- Case Management
- Municipal Performance Management
- Court Management
- Fraud Investigation ...



Healthcare

- Enterprise Health Analytics
- Health Plan Industry Models
- Customer Care & Insight for Health Plans
- Risk, Fraud, & Compliance for Health Plans...





Information On Demand Competency Centers Services to help you build information centers of excellence



Enable organizations to establish their own competency center to empower and support their information agenda

- A virtual or fixed team within an organization
 - IT & line-of-business professionals
 - Focused on building expertise across the technology, process & skills required to deliver business solutions
- Provides many services to the business...
 - Business analysis, information governance, best-practice repositories, and support & education

...Everything organizations need to design, establish & run a competency center...



Services

- Expertise matching your Information Agenda. Covering people, process & technology
- Today: IOD CC Foundation Services. Integrated services across information lifetime.

On-line Community

- Dedicated to sharing best practices.
- Today: Now spanning warehousing, data integration, and BI&PM

Research & Solutions

- Primary and secondary research, best practices, howto guides, white papers, books
- Today: Expanded to span integration topics

New

New

New

Information Management

thank you!

wardman@us.ibm.com

