

Building Mainframe Information Services with IBM Information Server for System z

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Abstract

This session will focus on techniques for service enabling mainframe data using various components of the IBM Information Server platform. WebSphere Information Services Director, WebSphere DataStage, WebSphere QualityStage and WebSphere Classic Federation will all be discussed in the context of creating "information services."

Presentation Goals:

Learn how mainframe data integration can be utilized within a Service
Oriented Architecture to address your business and IT challenges as
well as how components of IBM's Information Server technologies can
be used to dramatically simplify and accelerate the construction of
these services.



Agenda

- Introduction:
 - Information as a Service
- IBM Information Server
 - Delivering Information that you can trust:
 - · Where it is needed
 - · When it is needed
 - How it is needed
- WebSphere Information Services Director
 - Enabling information use and reuse in a SOA environment
 - Basic "access"
 - Transformed information
 - · Cleansed information
- Wrap-Up
 - IBM Information Server for System z deployment



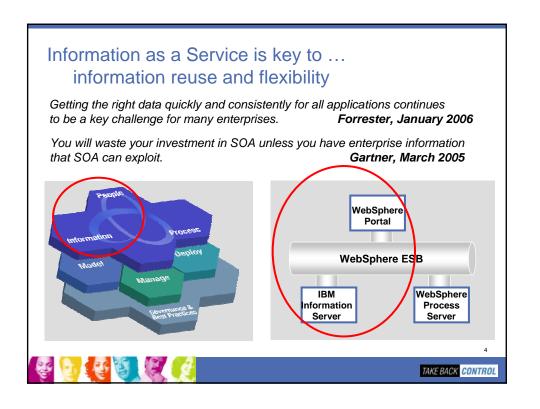
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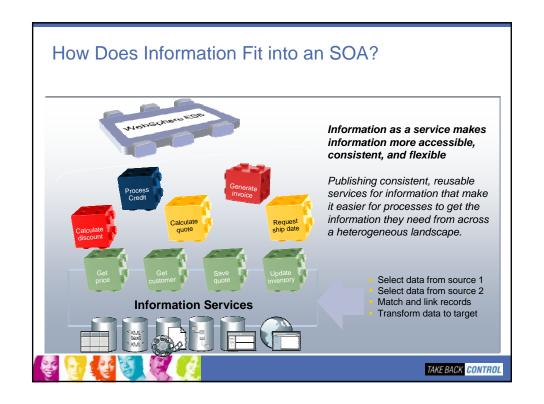
Changing Corporate View of Information Architecture

- Information is the key to **Business Innovation**
 - Organizations highly effective at driving information integration are five times more likely to drive value creation
 - Information architecture can't exist in a vacuum - it needs to be tied to enterprise architecture





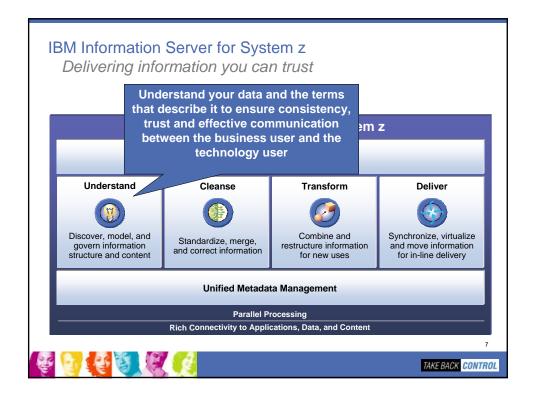


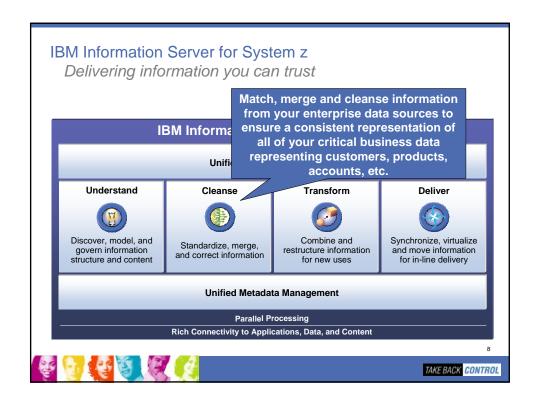


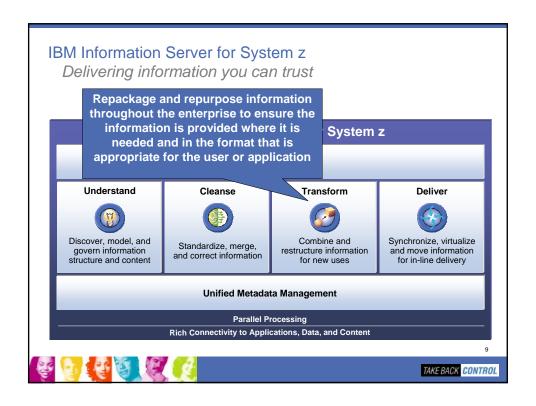


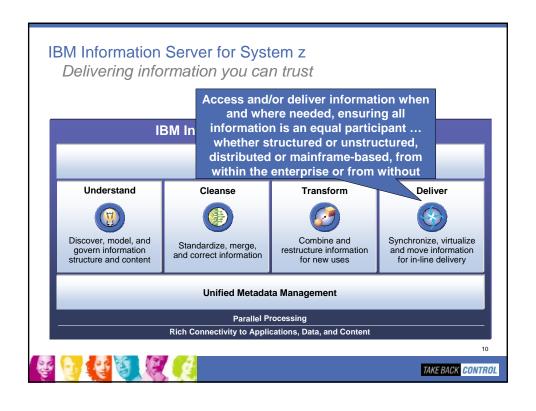
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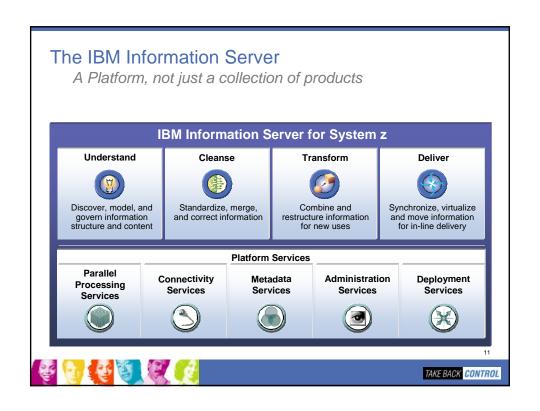


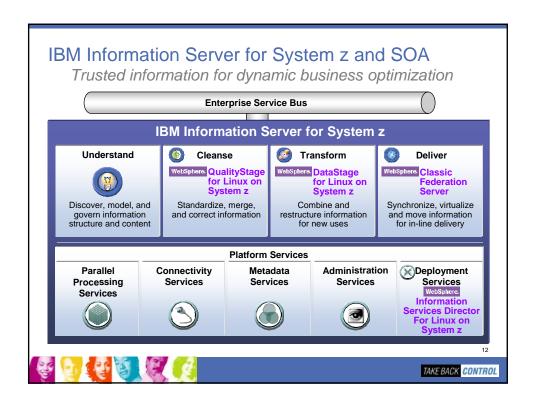




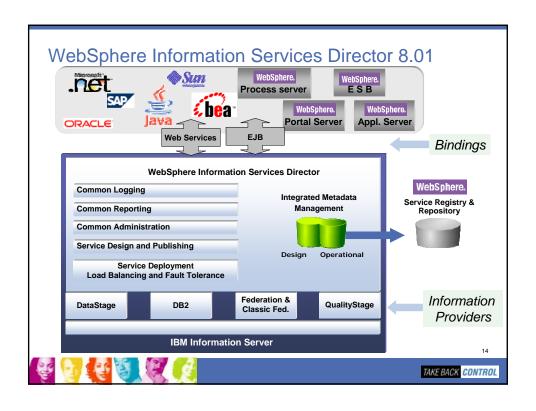


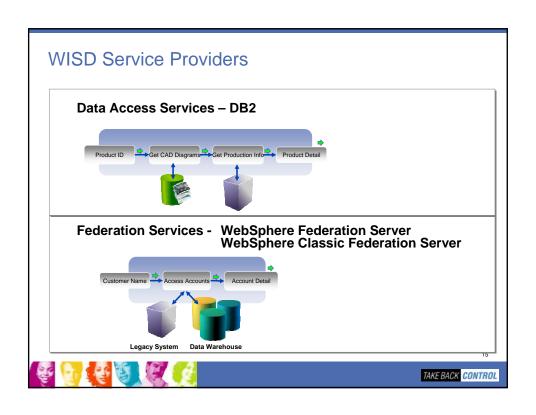


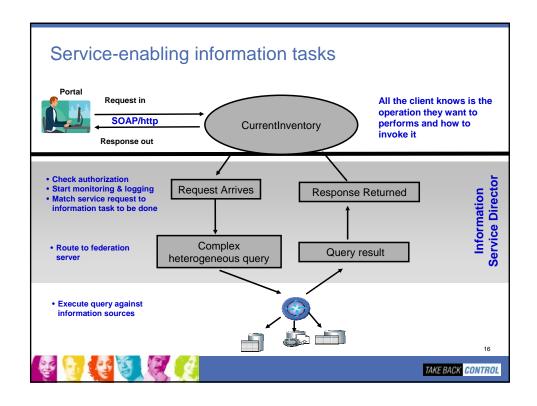


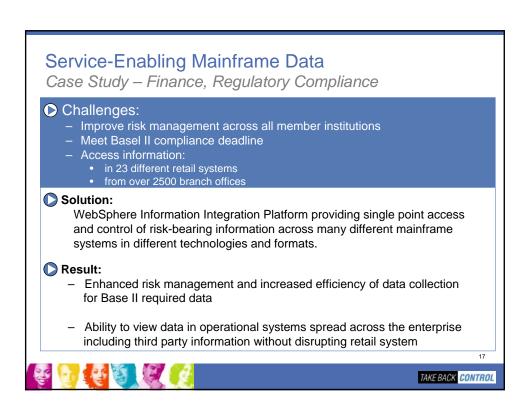


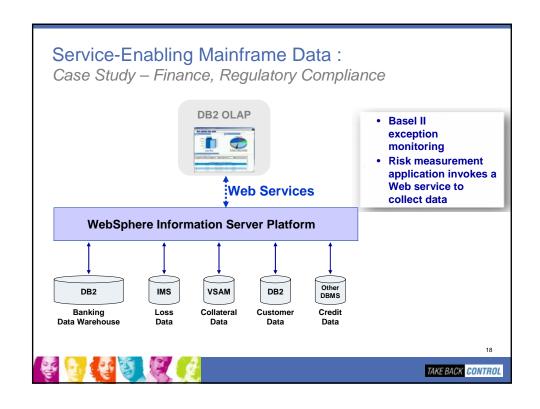


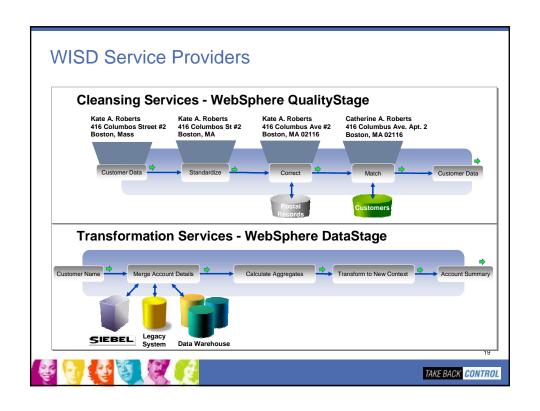












Service-Enabling Mainframe Data

Case Study – US Manufacturer of Recreational Equipment

Challenges:

- Complex inventory environment is dependent on Japanese parent for parts – on-the-boat, in-port, held-in-port, in-US-warehouse, ...
- Manual review of reports needed to provide single view of inventory to Finance, Manufacturing, Sales, etc. --- can take up to 3 weeks!
- Maintaining excessive inventory (high cost)
- Missing product delivery dates (lost revenue)

Solution:

- 1. Surface inventory "delays" as services
- 2. Inventory services feed downstream systems (Finance, SCM, ...)
- 3. Monitoring applications leverage services

Result:

- Reduced inventory overhead
- More efficient use of inventory, accelerating delivery of customer orders
- Consistent, accurate, up-to-date view of inventory for Finance
- Eliminated manual reconciliation reduced manpower

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Service-Enabling Mainframe Data

Case Study - Insurance

Challenges:

- Chronic shortfalls in productivity and customer satisfaction targets
 - Difficult, if not impossible to get correct customer-level information
 - · Detailed information available at contract level only
 - · Frequent conflicting information at group level
 - Major cause of billing errors and disputes

Solution:

- 1. Best-of-breed data attributes identified and surfaced via Services
- 2. Information silos communicate with new "enterprise" applications
- 3. Complexity of IT environment is "hidden" from business users

Result:

- Enterprise service applications quickly delivered without disrupting existing functional "silo" environments
- Up-to-date information reducing errors, disputes and improving service levels
- Productivity and customer satisfaction steadily improving

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Inside IBM Information Server for System z

- Provides a central control point for information services
 - Provides shared metadata, logging, security, services registry, and configuration
 - Allows all information assets to be controlled centrally
- Provides trusted information as a service
 - Obtains a complete view of information across a diverse landscape
 - Enables consistent transformation and data cleansing
 - Provides information lineage and linkage to business semantics
- Provides flexibility & reduces cost
 - Allows information to be tailored to the purpose
 - Allows sources to change without disrupting processes
 - Provides multiple options for how information is accessed
- Saves time
 - Fosters reuse in the information access layer





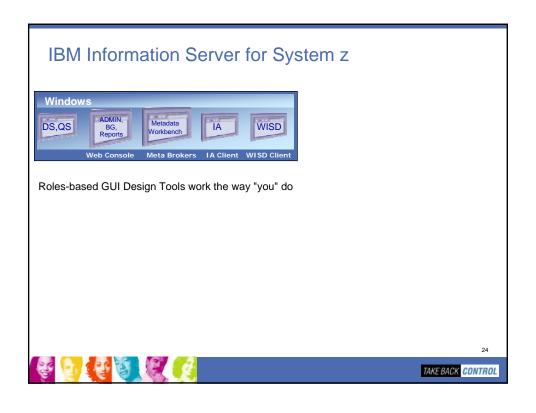


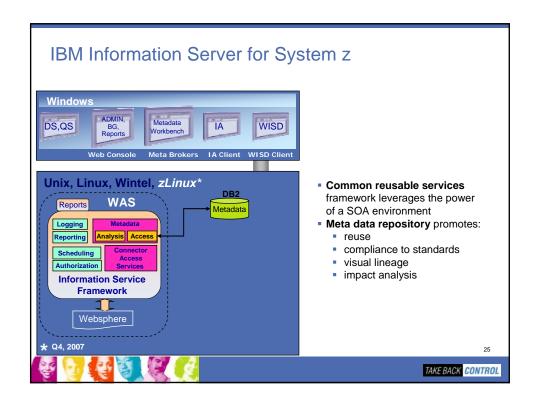
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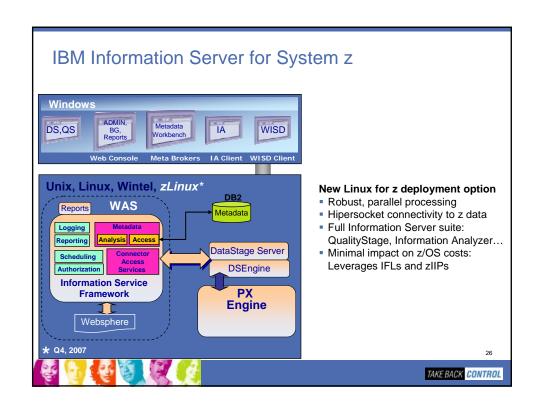
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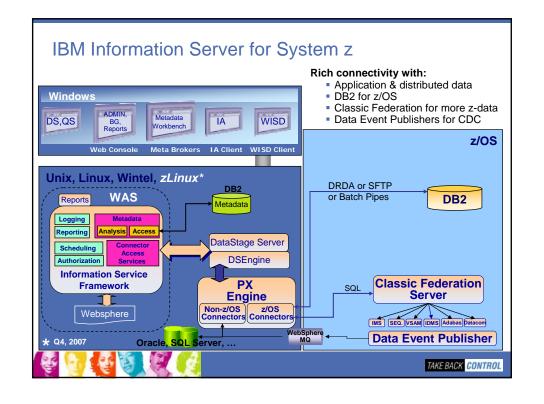


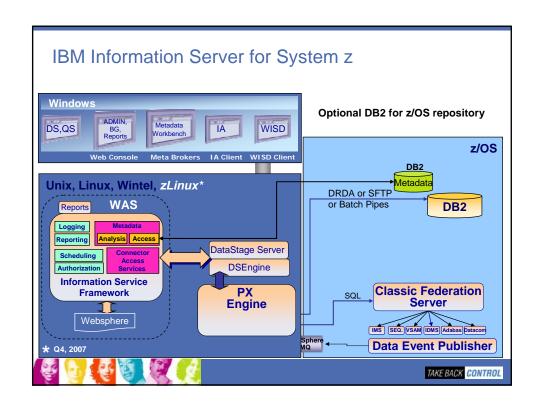


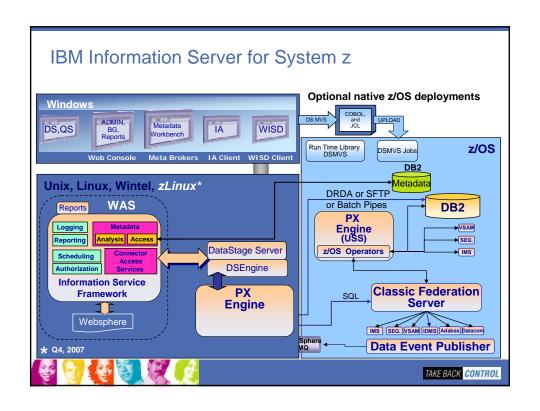












IBM Information Server on System z

Benefits of a hybrid architecture that leverages zLinux

- Significant cost savings:
 - MIPs charged at IFL rate ... NOT z/OS rate
 - Minimizes impact on z/OS MIPs
 - All Job Processing is on zLinux, except the z/OS data access
 - DB2 access qualifies for zIIP specialty engine
 - Minimizes impact on other z/OS software costs
- High performance z data connectivity:
 - Batch Pipes for DB2 load, DRDA to DB2 over hipersockets
 - SQL to Classic over hipersockets
 - Integration with Data Event Publishers for changed-data-capture
- Seamless integration with other Information Server platforms
 - Same operational architecture and meta data Repository
 - Eliminates deployment issues
 - Maintains value of DataStage for z/OS investments

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