

Sambasivam Sampathnathan SWG Group, IBM Corporation

# InformationOnDemandIndia2011

The Premier Conference for Information Management Manage. Analyze. Govern.

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# The Pressures on Business Today

### Business Growth

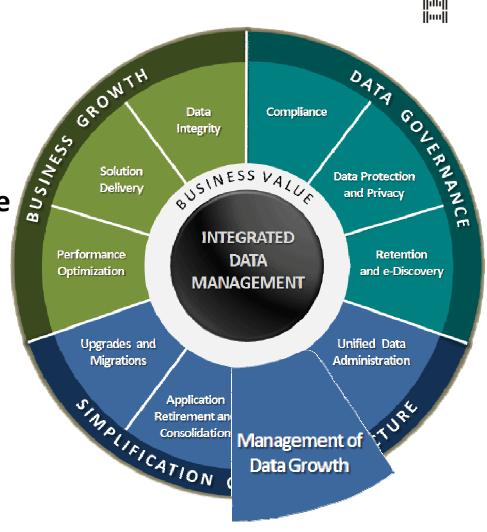
- Increase revenue
- Retain customers
- Enter New markets

# Simplification of Infrastructure

- Reduce cost
- Reduce of overhead
- Centralize shared services

#### Data Governance

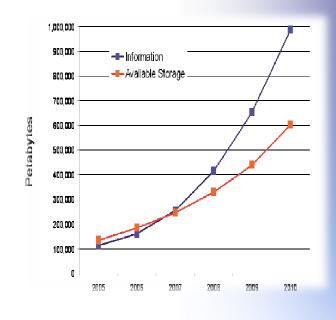
- Adhere to regulations
- Risk Mitigation





# The Problem: Information Exceeds Storage Capacity!

- Mergers & acquisitions
- Organic business growth
  - eCommerce
  - ERP/CRM
- The digital revolution
- Records retention
  - Basel II
  - SOX
  - Euro-SOX
- Data multiplier effect
- Forrester estimates that 85% of data stored in databases is inactive
- Forrester estimates that, on average, data repositories for large applications grow by 50% annually (structured data)



<sup>\*</sup> Sources: Noel Yuhanna, Forrester Research, Database Archiving Remains An Important Part Of Enterprise DBMS Strategy, 8/13/07 and Noel Yuhanna, Forrester Research, Database Archiving Remains An Important Part Of Enterprise DBMS Strategy, 8/13/07



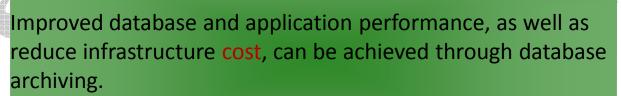
# **How Does Archiving Impact Cost?**



Moving inactive data to another instance or archive system not only makes production databases more efficient, but it also lowers cost. Large databases also drive up hardware cost, database license cost, and general administration effort.

#### Noel Yuhanna, Forrester Research

"Database Archiving Remains An Important Part Of Enterprise DBMS Strategy", 8/13/07



Carolyn Dicenzo and April Adams, Gartner

"Archiving Technology Overview", 2/6/07



## **Challenges associated with Data Growth**





# Business

- Performance degradation
  - Key business processes payroll, shipping, financial period close, information reporting not being completed on time
  - Applications not available when customers want to do business with you
- Regulatory compliance
  - ▶ Data retention (Sox, Euro-Sox, J-Sox)
- Budget Pressures
  - Increased hardware storage costs due to growing data



- Storage cost spiral
- Deteriorating service levels
  - ▶ Customer & employee complaints
  - ▶ Increased fire fighting
- Increased maintenance burdens
  - ▶ More time spent on tuning and partitioning
  - ▶ Longer backup windows
- Batch window creep



# **Solution Requirements**





- Complete business object archiving
- Federated Environment
- Archive to selected target format
  - Compressed, indexed file
  - XML file
- Implement tiered storage strategies to minimize costs
- Native Application access (Siebel, PeopleSoft, JD Edwards, E-Business Suite)
- Application Independent access (Original app/version is not needed)



# **How Does Archiving Improve Performance?**



#### Improved Availability

- No downtime caused by batch process overruns
- Uptime during crunch time
- Meet SLAs

#### Speeding Backup and Recovery

- Bring up important/recent data first
- Bring up older/reference data as conditions permit

### • Improved Application Performance

- One of the most understated benefits to archiving
- Longest and most lasting benefit





# How can I save money by Archiving Data?



#### Storage

Through Information Life Cycle Management (ILM)

### Administrative costs of data management

- Software license fees
- Labor to manage data growth
  - o DBA
  - System/Storage Admin

### • Reduction in processor upgrades

More MIPS/processors required to process large data repositories

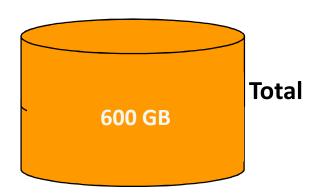


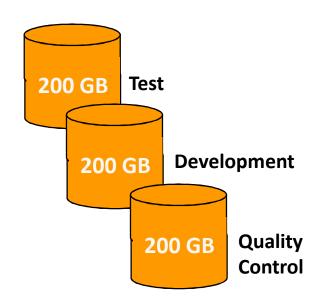


# **Reducing Data Size Improves Upgrades & Migrations**



- Important for packaged applications space (Siebel, Peoplesoft Enterprise, Oracle E-Business, JD Edwards EnterpriseOne, Amdocs, etc.)
- Reduce time allocated for database conversion
- Reduce downtime during transition
  - One recent client stated 1 hour downtime = \$5M
- Deploy new version quickly
  - Revenue recognition
  - Competitive Advantage







# **Benefits of Optim Data Growth Solution**





# Business

- Improve application performance by archiving historical data from the production database(s)
- Ensure consistent performance to Service Level Agreements, thereby maintaining customer & employee satisfaction
- Reduce operating expenses associated with storage costs

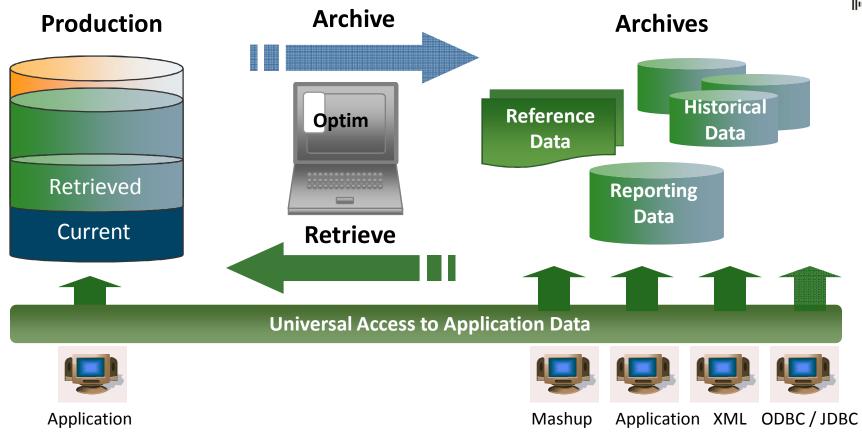


- Maintain production database size at desired level to streamline routine maintenance, mitigate need for continual performance tuning
- Complete batch processes on time, reduce risk of unplanned downtime
- Reallocate existing storage hardware to reduce costs



# **Optim™ Data Growth Solution: Archiving**





- Complete Business Object provides historical reference snapshot of business activity
- Storage device independence reduces storage costs
- Immutable file format enables data retention compliance

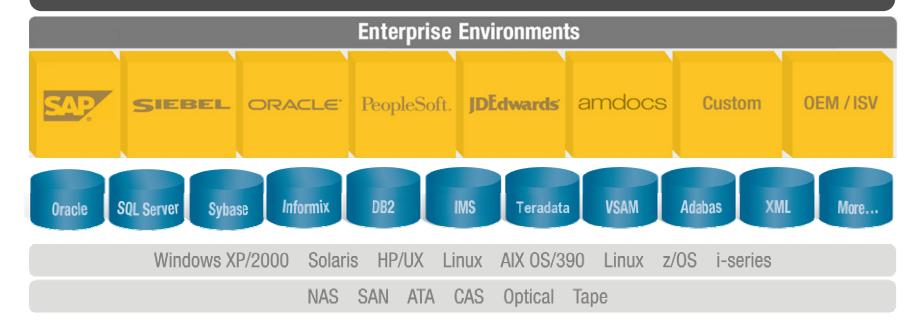


### **Enterprise Environments**



### **IBM Integrated Data Management**

Database Design, Development & Administration, Data Growth, Data Privacy, Test Data Management, Application Upgrades & Retirements, Data Retention & E-Discovery

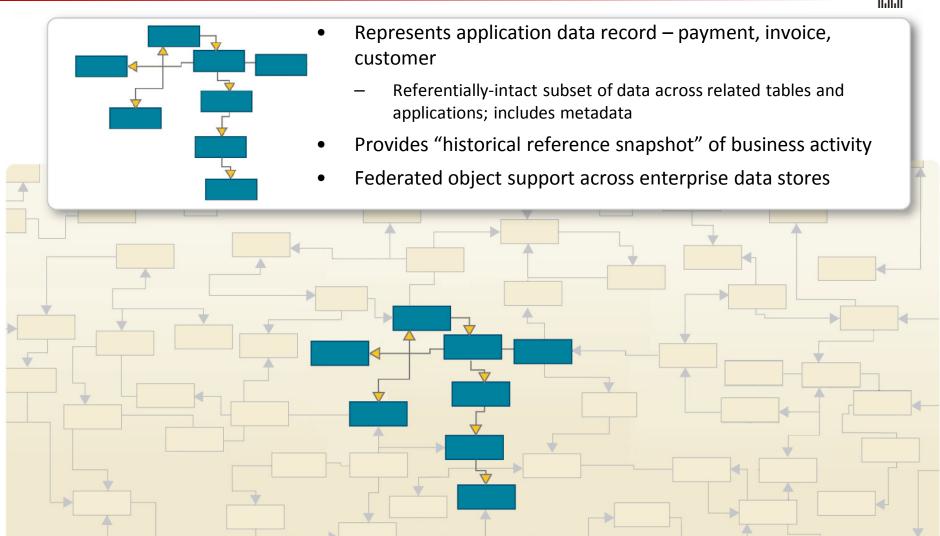




# **Archive the Right Set of Data**

# Referential Integrity – the Complete Business Object







# But, You Can't Manage What You Don't Understand

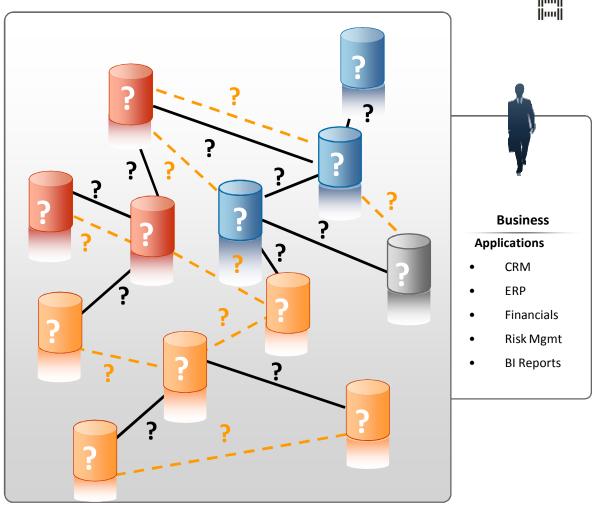


#### Distributed Data :

- Grows exponentially
- Increasingly distributed
- Poorly understood

#### Problems:

- Poor understanding = Poor IT Agility
- Poor understanding = Poor data governance
- Poor understanding =
   Bad data =
   Bad business decisions



**Distributed Data Landscape** 

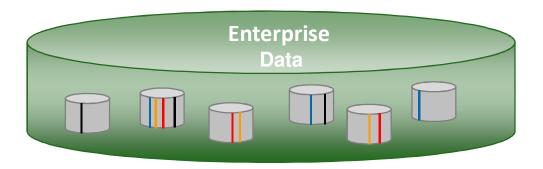


### **IBM InfoSphere Discovery**

### **Automatically Discover Business Objects**



- Full range of data analysis capabilities to capture these hidden correlations and bring them clearly into view
- Data discovery and cross-system overlap analysis of up to 20 systems simultaneously
- Automated Primary/Foreign Key and Business Object discovery through data analysis



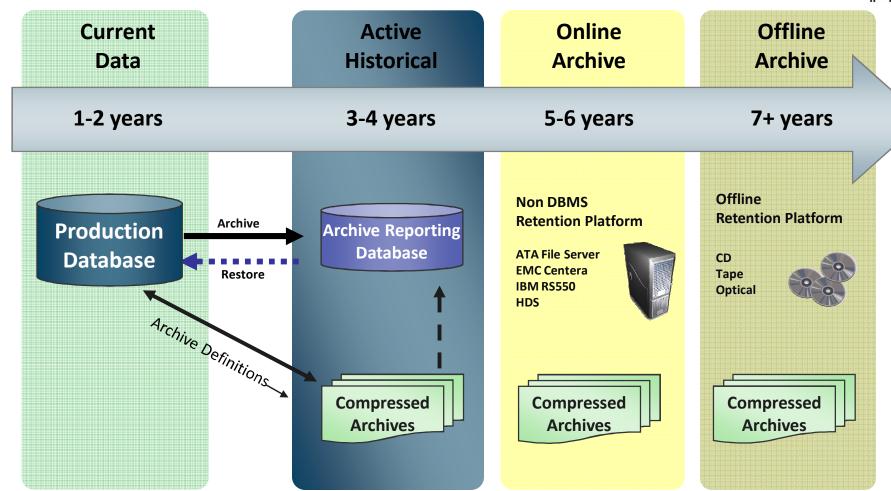
### What is unique?

Only solution on the market that <u>automatically</u> discovers primary foreign keys, business entities, and performs cross-source analysis



# Have a Storage Plan for the Entire Lifecycle of Data Store in Any Environment

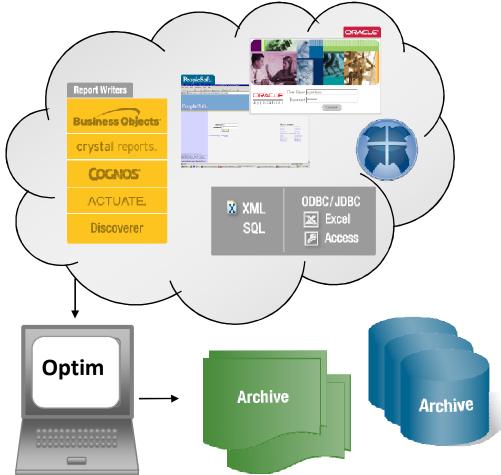






### **Universal Access**





- Native application access
  - Familiar screens and processes
- Application independent access
  - Industry standard methods: SQL, ODBC/JDBC, XML
  - IBM Mashups
  - Portals
  - Report writers: Crystal Reports,
     Cognos, Business Objects,
     Discoverer, Actuate
  - Desktop formats: Excel, CSV, MS
     Access
  - Database formats

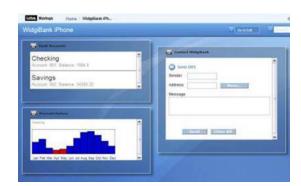
Access Any Record, Anytime, Anywhere!

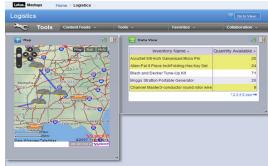


# Mashup Optim archives for more than just reporting



- A "mashup" is a lightweight web application created by combining information or capabilities from more than one existing source to deliver new functions & insights.
- Optim archive data can easily be used in mashups



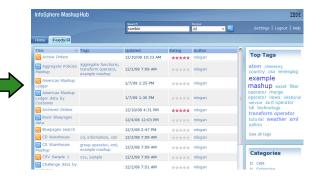


Combine, transform, filter, etc. to tailor it to a specific use



'Mash' it together with other internal/external data to provide a full business application





Catalog in a common repository so it can easily be found and used when needed



#### **Client Success: Data Growth**





#### **About the Client**

Largest Operator of
Department Store Jewelry
Departments in the United
States

#### **Industry**

Retail & Manufacturing

#### **Annual Revenue**

\$900 Million

#### **Application**

**Custom Application** 

#### Solution

Optim™ Data Growth Solution

#### Challenges:

- Improving application performance and service levels to customers, merchants, sales associates and internal business users
- Reducing costs for increased processing and storage capacity required to accommodate significant database growth
- Eliminating application downtime and outages during daily operations and especially during peak buying seasons

#### Client Value:

- Improved response time for targeted processes by as much as 60 percent or more
- Reclaimed over 100 GB of high-priced storage capacity during initial archiving, resulting in savings estimated at \$1.8 million dollars in projected 5-year IT capacity expansion costs
- Increased system availability resulting from shorter batch processing windows and reduced downtime
- Achieved predictable scheduling to increase "open-for-business" hours for expanded revenue generating opportunities and customer service



### **Client Success: Data Growth**





#### **About the Client**

Health Insurance

**Industry** Insurance

**Annual Revenue** \$522 Million Annually

**Application**Custom Insurance Applications

**Solution**Optim<sup>™</sup> Data Growth Solution

#### • Challenges:

- Managing capacity planning and controlling increasing storage costs resulting from exponential business growth and increased data volumes across critical business applications
- Meeting SLAs to support enterprise business activities by improving service levels for customer inquiries, reporting and transaction processing degraded by storing 14 years of historical data online
- Ensuring compliance with data retention and privacy regulations by implementing data management and storage strategies that embrace data lifecycle best practices

#### • Client Value:

- Achieved full ROI based upon storage savings of 600,000 to 720,000
   USD per year and looking to further improve storage management planning by reducing data growth by 50 percent
- Derived noticeable benefits from improved response time, shorter batch windows and faster processing times by implementing database archiving to manage historical transactions
- Implemented an information lifecycle management approach and tiered storage strategies for managing enterprise data, by adopting international best practices that support data retention and privacy compliance initiatives



### Summary



- Databases are growing at an unprecedented rate
- Cost of storing data increases as the data grows
- The larger the database, the slower the performance
- Archive historical data to reclaim capacity, improve performance
- Prevent data growth from impairing business results
- Automate Business Object Discovery to gain new Data Insights, Ensure Accuracy and Speed Implementation
- Control database size at desired level
- Minimize storage footprint, cut costs
- Streamline routine maintenance





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