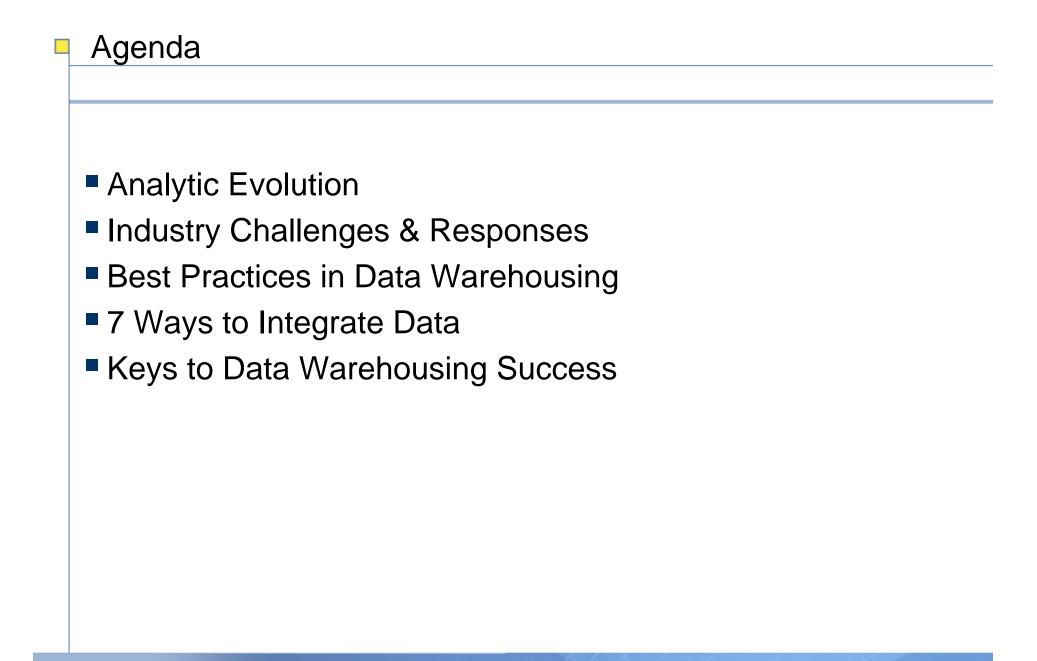


CAS 2006 March 13, 2006, 2:00 – 3:30 Data 2: Information Stored, Mined & Utilized/2

Data Integration Alternatives & Best Practices

> Patricia Saporito, CPCU Insurance Industry Practice Director Information Builders, Inc. Patricia_saporito@ibi.com



Information

The Standard for Enterprise

Information Builders Introductions

Who We Are

A software company providing distinct solutions for enterprise business intelligence and enterprise integration.

Founded 1975

30 years in business intelligence 14 years in enterprise integration

Industry focus





Financial Services is largest industry segment Insurance is largest Financial Services segment



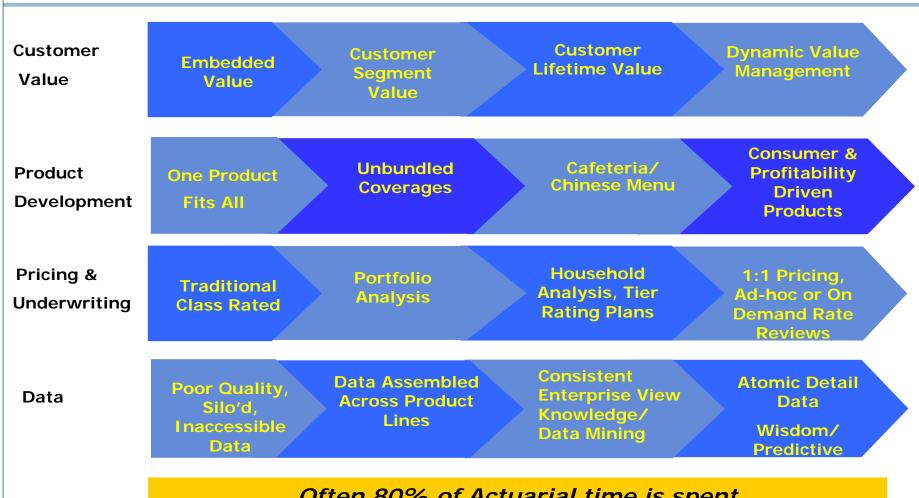
"We enter 2005 with more than 1,700 of the best and brightest professionals in the industry; a solid balance sheet, a strong cash position, and no debt; and a stronger value proposition across our core product and service offerings than at any other point in our 30-year history."

Gerald D. Cohen

President and CEO of Information Builders



The Analytical Evolution



Often 80% of Actuarial time is spent integrating/reconciling the data vs. analyzing/using it!

> Information Builders Intelligence

Insurance Industry Business Challenges & Response

Business Challenges:

- Sustained Profitability
- Channel & Agency
 Management
- Increased Competition
- Expense / Cost Management
- Regulatory Compliance
- Enterprise Risk Management

Information Challenges:

- Data Accessibility
- Data Quality
- Data Reconciliation

Industry Responses:

- Enterprise Data Strategy
 - SOA
 - Standards
 - Data Governance
- Advanced Business
 Intelligence
 - Business Perf. Mgmt.
 - Predictive Modeling
 - Real-time Analytics
 - GIS
 - Visualization



Enterprise Data Strategy Some Key Components

Platform Consolidation

- Reduces the number of data stores/repositories
- Reduces costs of development and maintenance and simplify enterprise architecture
- Comprehensive business oriented Data Requirements/Data Architecture
 - Logical Data Models, Physical Data Models, Business Process Models
 - Tools, knowledge, processes speed the build process (ETL, Profiling, etc.)
- Data Governance and Quality services, tools and processes
 - Improved processes and audit/control for data quality confidence in the data used anc ability to audit from cradle to grave
 - Data Stewardship Committee
- Architectural Flexibility to cope with dynamic requirements
 - Ability to easily migrate from current state to future state
 - Ability to rapidly deploy, re-use/leverage component architectures, etc.
- Scalability to meet data and analytical application growth and performance needs
 - Data base, BI & other tools
- Application Integration
 - Reusability
 - Ease of integration



What is SOA? Service Oriented Architecture Why You Should Care

- SOA is about adaptability and reusability
 - Data
 - Business Processes
 - Standards
- Benefits:
 - Speeds application development
 - Reduces application development & maintenance costs
- Involves:
 - Data Integration
 - Application Interfaces

SOA is one of the 5 top IT Business & IT initiatives at most insurance companies in 2006.



Advanced Business Intelligence Some Key Components

- Business Performance Management (Scoreboards)
 - Self Management
 - Overall BPM monitoring
- Predictive Modeling
 - Enterprise Decision Management (models integration)
 - More user friendly models (non-statistician)
 - Applications Customer Management, Distribution Mgmt., Underwriting, Claims Fraud Analysis, Enterprise Risk Mgmt., Capital Allocation,
- Real Time Analytics
 - Embedded analytics in workflow/business processes
 - Bringing the processes to the data vs. data to the processes
- GIS (Geographic Information Systems)
 - Easier geo coding of own data
 - Industry/standard data sets
 - Robust application integration
- Visualization
 - Data Discovery



Data Warehousing & Data Mining Best Practices

- Moving toward an Enterprise Data Warehouse
- Enterprise Data Strategy
 - Data Quality/Data Governance process/metadata repository
- Granular/atomic vs. summary data
- More sophisticated data mining and techniques
 - Move data mining tools to the data
- Still using SAS, but not for extraction
- Still using Excel, for smaller data sets
- Storing derived scores/factors in data warehouse for leverage by other users

Information

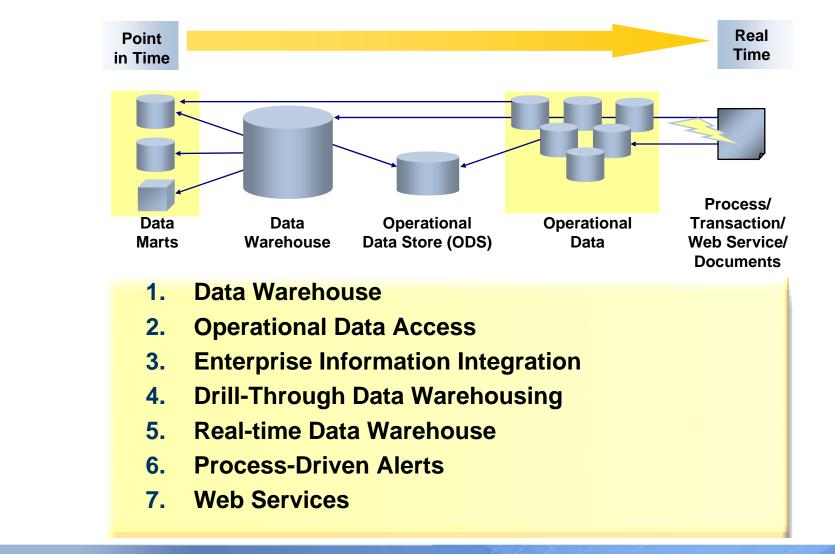
 Creating common data sets for integrated analysis across functions/departments/SBUs Delivering Information Some Facts...

> "80% of the cost of implementing business intelligence is attributed to data integration." Ted Friedman Research Analyst Gartner

- Most organizations access and analyze less than 10% of all data they collect.
- Organizations typically possess an average of 30 unique types of database structures running in production.
- Real time business requirements add the need to integrate an infinite number of new data formats including messages, transactions, documents, web services, etc.....

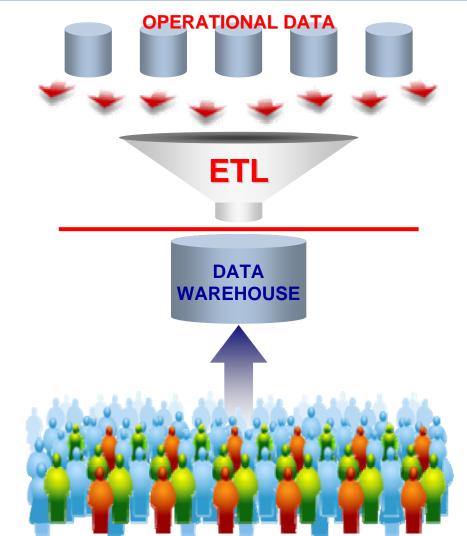


7 Integration Ways Right Way Depends on Your Business Needs



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Data Integration Requirements Traditional Data Warehousing



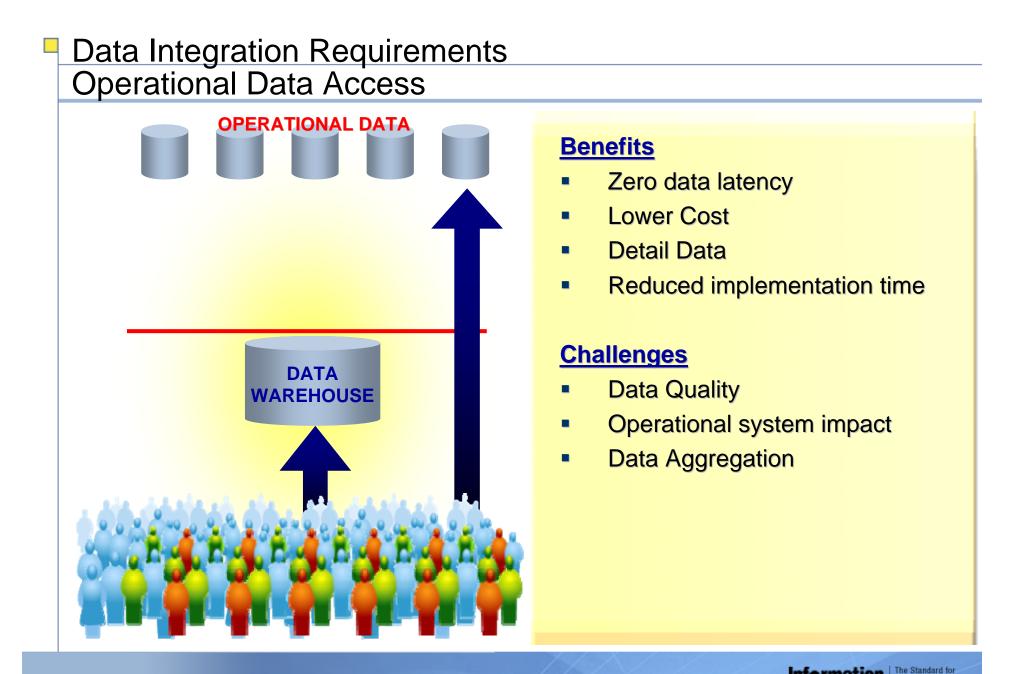
Benefits

- Data quality
- Consolidated data
- Data consistency
- No operational system impact

Challenges

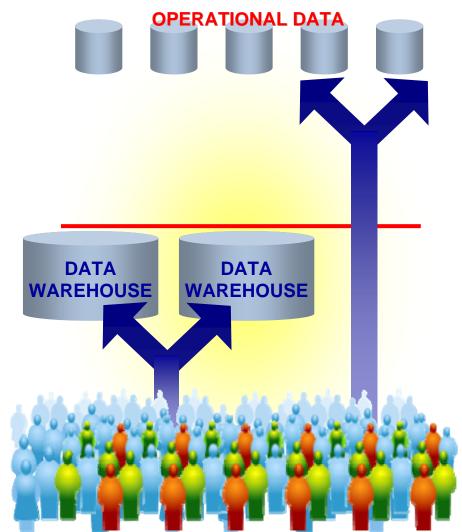
- Data Latency
- High Cost
- Implementation time and maintenance





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Data Integration Requirements Enterprise Information Integration



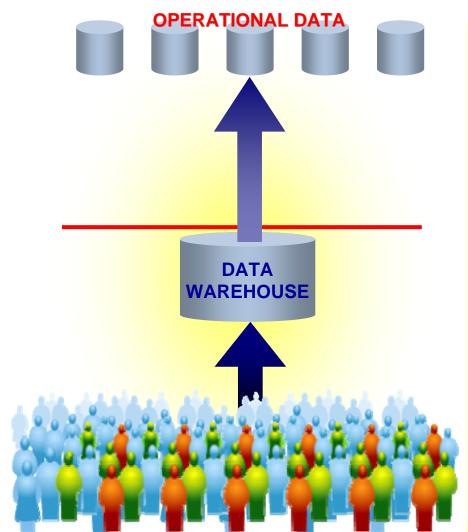
Benefits

- Consolidated view
- Cross-business functions
- Executive portals
- Reduced implementation time

Challenges

- Performance
- Non-similar data keys
- Data quality/reconciliation

Data Integration Requirements Drill-Through Data Warehousing



Benefits

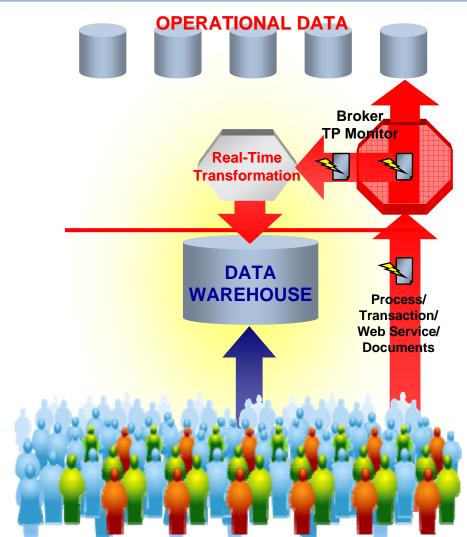
- Detail analysis
- Financial analysis
- Data Warehouse validation

Challenges

Data synchronization



Data Integration Requirements Real-Time Data Warehouse



Benefits

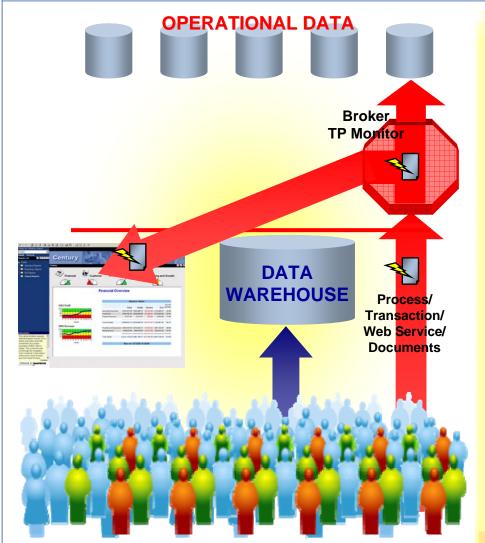
- Zero data latency
- Consolidated data model
- No operational system impact

Challenges

Transaction volume



Data Integration Requirements Real-Time Alerts



Benefits

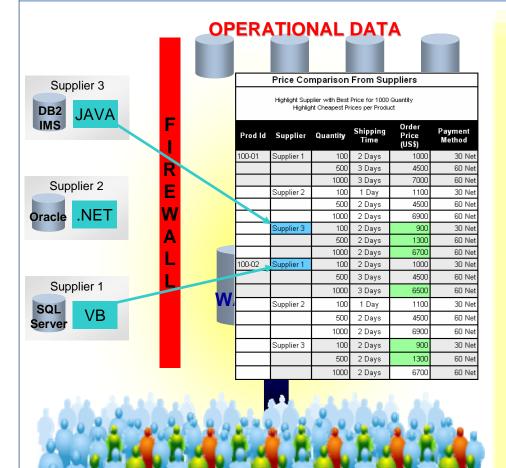
- True Real-Time
- Direct delivery from event to portal

Challenges

- Performance
- Accessibility



Data Integration Requirements Web Services



Benefits

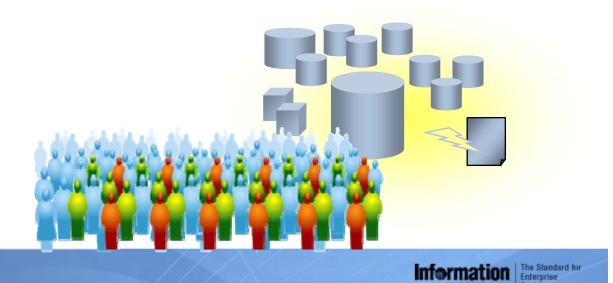
- Standard interfaces
- Simplifies B2B data access

Challenges

- Performance
- Cost to program/maintain the interfaces

Seven Ways to Integrate Data Summary

- Today's business requires new types of data.
- Information demand is driving lower latency of data.
- Enterprise Business Intelligence requires most, if not all, styles of data integration.
- Don't have to use all at once!
- The "best way" depends on your business needs, your IT environment and your corporate culture.



Keys to Data Warehouse Success

- Specific Business Problem to be solved
- Executive Sponsorship/Support
- Business and IT Alignment
- Well-Defined Plan (Think Big, Start Small)
 - Short-term deliverables (90-120 days)
 - Continual enhancements
- Realistically factor in Business Process Changes
- Clear Return on Investment (ROI)
 - Pre-implementation Business Discovery
 - Post-implementation Business Value Assessment (to ensure continued funding)
- Utilizing Proven Methods, Tools and Technology
- Experienced Personnel



Pat Saporito, CPCU Insurance Industry Practice Director

- 25+ yrs. insurance experience
- Business & IT; industry & consulting
- Vendor (Teradata Ins. Industry Director), Analyst (META Group Ins. Practice VP), Industry (AIG, American Re, Hartford, ISO, et al.)
- Assns: IASA Tech Committee; CPCU IT Section
- Contact:
 - (201) 681-9671 Cell
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Information