



Financial Services Business Integration



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Imperatives for BANKS

- Cost reduction
- Revenue growth
- Risk reduction
- Customer focus
- Customer retention
- Optimise ROI from mergers and acquisitions with scale based cost savings and rapid business unit integration
- Wealth Management



Imperatives for FINANCIAL MARKETS

- Margin
- Speed to market
- Faster support of new customers
- Strategy execution
- Overheads reduction
- Risk reduction
- Customer retention

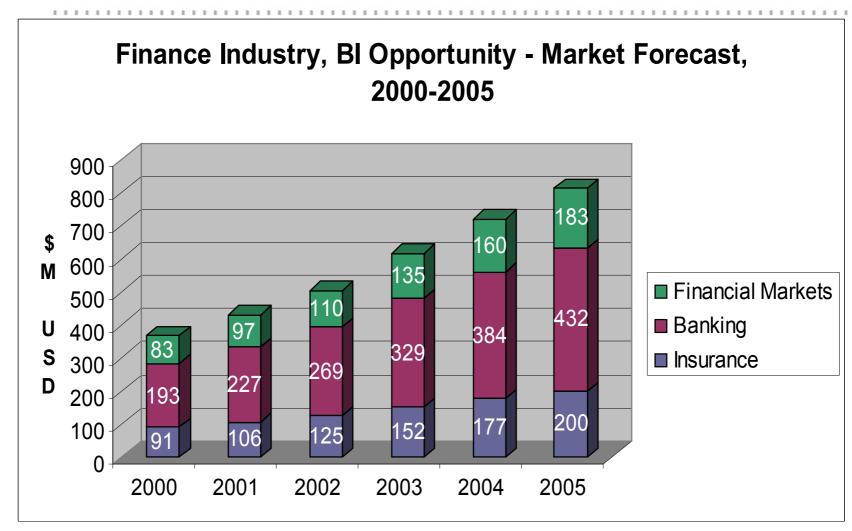


Imperatives for INSURERS

- Survival
- Increase size and performance at the same time
- Reduce Costs
 - Policy admin & claims management
- Customer Management
 - Understand key buying factors
 - Increase retention of profitable Customers
- Optimise ROI from mergers and acquisitions with scale based cost savings and rapid business unit integration
- Create value



The BI opportunity is large and growing rapidly



Straight-Through Processing (STP) Is a Top Issue

Top 2002 Strategic IT Initiatives In Wholesale Financial Services				
Rank	Initiative			
1	Credit Risk			
2	Enterprise Business Process Management Integration			
3	Return on IT Investments			
4_	Straight-through processing (STP)			
5	Regulatory Changes			
6	Knowledge Management			
7	Portal solutions and self-service			
8	Security			
9	Outsourcing and packaged applications			
10	Financial institutions as IT solution providers			

Retail Brokerage 2002 Software Spending Priorities				
Rank	Project			
1	Back Office, Correspondent Clearing, and Custody			
2 Core Processing3 Trading Tools, Analytics, and Broker Workstations				
		4 Content, Decision Support, Advice, and Planning		
5 Other				
6	Delivery Channels			
7	CRM			

Source: Tower Group, 2002

Source: Meridian Research, 2002

	Asset Management Top IT Projects for 2002					
Rank	Project Description					
1	Automated link between front and back office applications (Internal STP)					
2	STP (External)					
3	CRM					
4	Performance measurement					
5	Client reporting					
6	New accounting system					
7	Portfolio management system					
8	Windows XP workstations					
9	E-business					
10	Improved front office system					
11	Disaster recovery plan					
12	Order management system					

Source: Cap-Gemini-Ernst & Young 2002



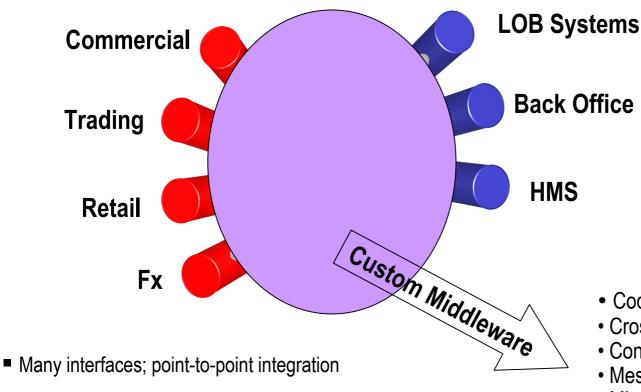
Industry analysts agree that achieving Straight Through Processing demands focus on business processeses

		Insti. B/D	Retail B/D	Asset Manager
1.	Modify internal processes to ensure compliance with compressed settlement deadlines	\$1510M	\$440M	\$790M
2.	Identify and comply with accelerated deadlines for submission of trades to the clearing and settlement systems	\$105M	\$75M	
3.	Amend DTCC's trade guarantee process that guarantee is provided on trade			
4.	. Report trades to clearing corporation in locked- in format and revise clearing corporation output			
5.	Rewrite current real-time CNS to enhance speed and efficiency			
6.	Reduce reliance on checks and use alternative means of payment		\$385M	
7.	Immobilize shares prior to conducting transactions		\$155M	
8.	Revise the prospectus rulës and procedures for IPOs	\$80M	\$160M	
9.	Develop an industry matching utilities and linkages for all asset classes	\$90M		\$195M
10.	Standardize reference data and to standardized industry protocols	\$1580M		\$675M
	TOTALS	\$3.4B	\$1.2B	\$1.7B



Source: SIA Business Case

Problem Statement

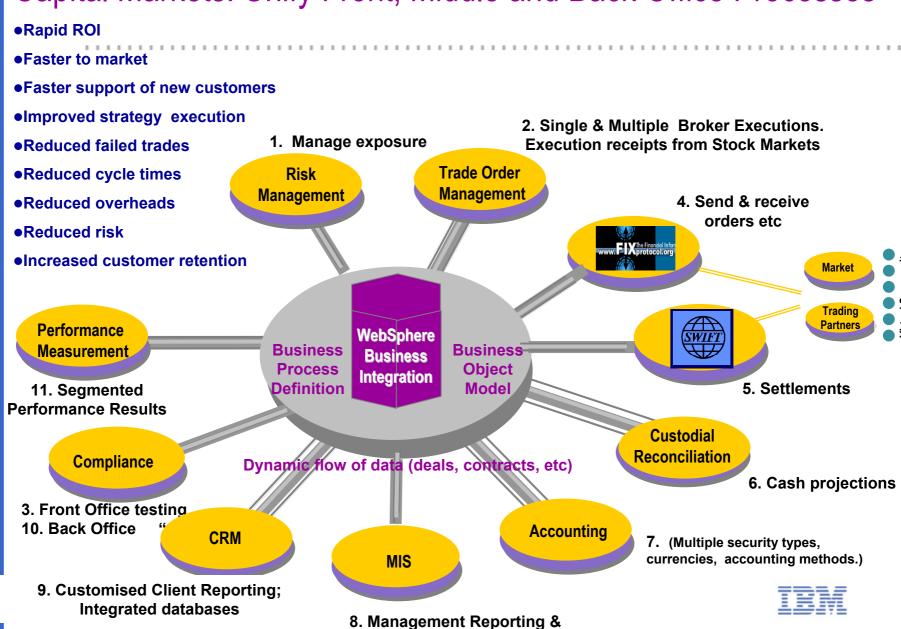


- Rules embedded in Applications at each end of each flow; data mapped directly from one application to another
- ■Local information, huge databases, no global view
- Costly, unscalable, difficult to implement and maintain

- Codes/decodes
- Cross-reference
- Connection pooling
- Message comp/decomp
- Micro/macro workflows
- Data integrity
- Failover
- Transaction Integrity
- Timeouts and compensation

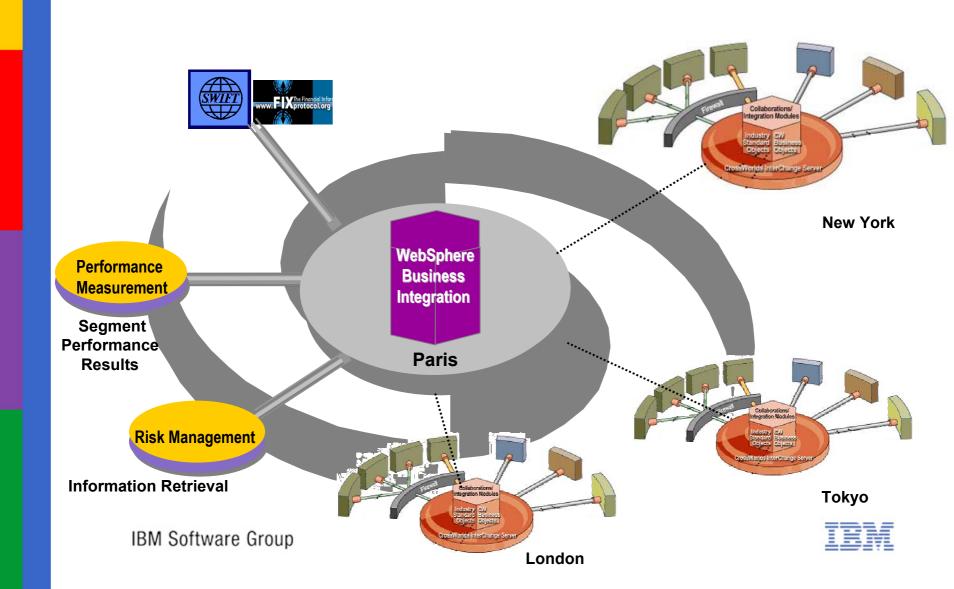


Capital Markets: Unify Front, Middle and Back Office Processes

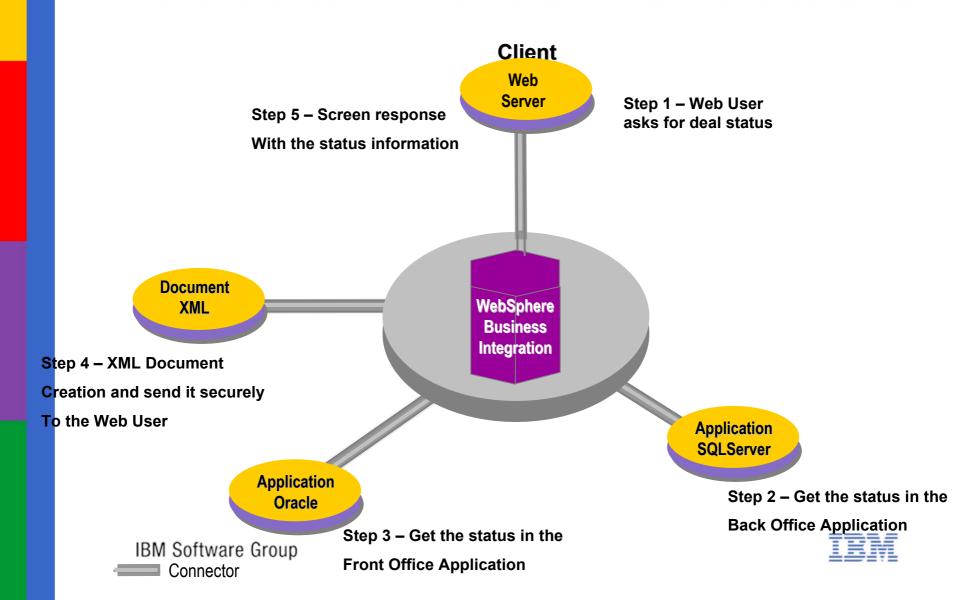


Ad hoc Query

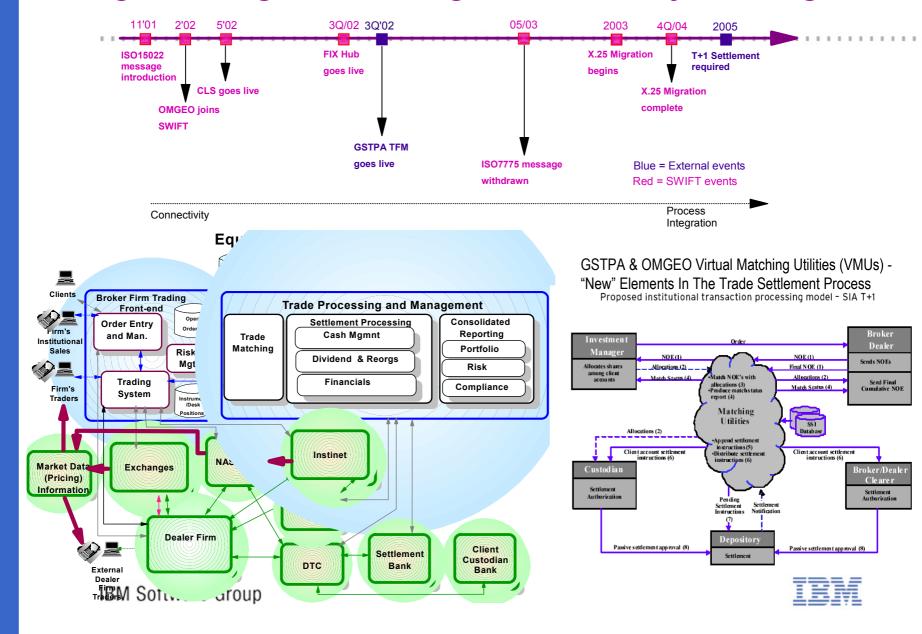
Global Performance Improvement



Deal Status Inquiry



Straight Through Processing: \$19B industry challenge



WBI SWIFT Adapter: critical mapping features

- Provides default mappings between ISO 7775 & ISO15022
- User Interface displaying source and target messages
 - User able to modify and extend rules within the documented range of mapping functionality
- Driven by mapping logic stored using BO definitions
- Flexibility to capture customer specific usages
- Pre-built Maps

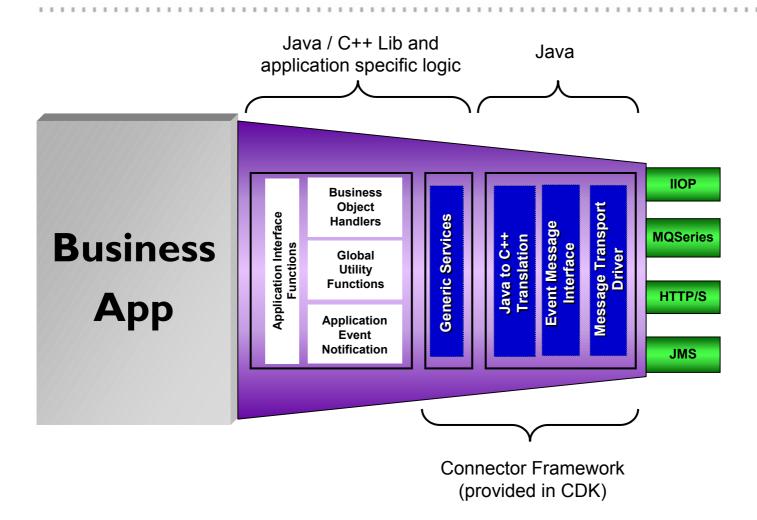


IBM provides a very strong list of pre-configured adapters

URL: http://www-3.ibm.com/software/integration/wbiadapters/

	• SAP	• Ariba	• SWIFT
Business	• Baan	BroadVision	• FIX
Application		CommerecOne	• GSTPA*
Adapters	• Oracle		• OMGEO*
	· JDE	IBM WebSphere	• CLS*
	• Peoplesoft	• SAP BBP	
	· QAD	• i2	 FIX over SWIFT
	 Clarify 	• Manutistics	
	 Siebel 	Numetrix/JDE	
	 Remedy 	 Kenan 	* In development
	 Vantive 	 Metasolv 	
	 Trology 	• Portal	
Technical	RosettaNet	· HTTPS	
Adapters	· CIDX	 FTP/POP 	
•	· CICS	· SMTP	
	• IMS	 MQSeries 	
	• AS/400	 VAN Connectivity 	
	· COM	• S/MIME	
	· CORBA	• SSL	
	• e-mail	• MDN	
	• text	 Digital Certificates 	
	• HTTP	• S/Key	
	• MQSI	Private/Public Key Encrypti	on
	· JDBC		
IBM S	oftware Group		IBM
	 RDBMS 		

Adapter Development Kit



Object Discovery Tools help to find the right data in an application IBM Software Group



Integration situations can involve many types of applications and databases, and many types of integration functionality

Applications or Databases WBI Core Integration Functionality Business Apps Packages Communication using Mainframe standard protocols App Server Apps Misc Proprietary Queuing **Pre-configured adapters Business** Data Warehouse **Databases** Oper Data Store Message handling Misc. Bus Databases **Transformation & Routing** App Access Portals **People-oriented Process management** Enterprise Info Portals **Apps** Workflow Tasklists **Process templates & Bos** Small Devices Workflow Personal Productivity **Automated interactions** Web Servers & • B2B with external business **Gateways** Misc(E.G. wireless) partners Other Directory Monitoring, Analysis, **Middleware** Security **Feedback** System Management



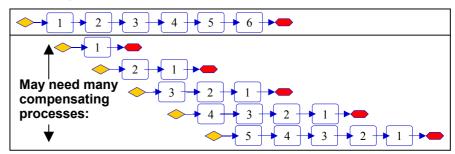
Process Management: Functionality that controls sequences of activities as one unit of work

- Sequence Control: Controls the sequence for many activities according to business rules, including controlling parallel processes that may have interdependent activities
- Data and Process Isolation: Ensures that a process finishes before other processes can affect the data that is being used
- Failure Detection: Senses and reacts to processes that are not able to complete
- State Management: Maintains history of changes to objects and app data, to enable "backwards navigation" through many possible return paths
- Automated Recovery: Automates the adjustment of affected applications/data to an acceptable condition if a process fails (rollback or compensation)
- Flexible Sub-process Ownership: Isolates portions of the process for control by specific owners (E.G. two companies control their own portions of one overall process)
- Long-duration Activities: Keep a process in suspension for a long-duration activity, as may be needed for people-oriented workflow, and process-intensive B2B interactions Group

Process Tooling

To make the best use of Process Management functionality, tools are needed to build, organize, modify, and re-use complex process designs

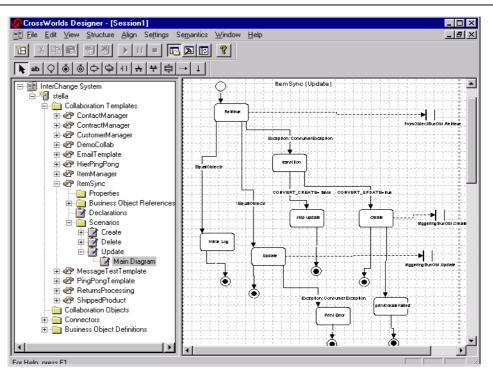
- Processes, and especially compensations, can be very design-intensive
- Need friendly tools to easily create, store, and modify designs for complex processes
- Need the ability to save and organize complex process designs as re-usable templates



Process Flow Designer

- Uses UML to design complex processes
- · Scenarios "painted" into existence
 - Sub-diagram support
 - Iteration Support
 - Heterogeneous entity support
- Complete Java code generation
- Custom Code support in Java without touching generated code
- Multiple Scenario Support
- Multiple event "trigger" support

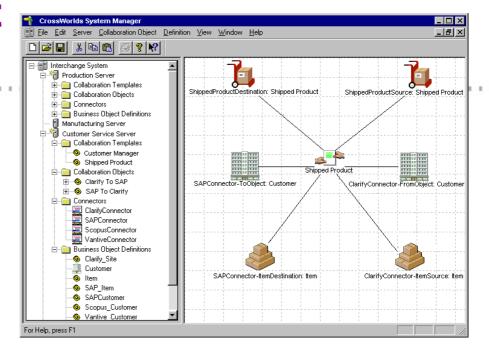
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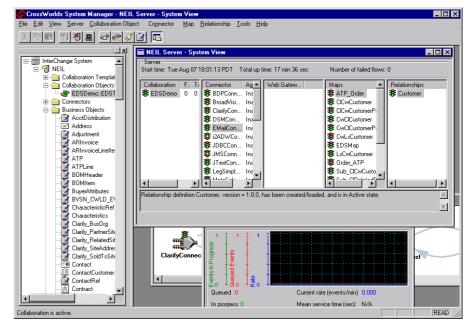


System Management Tooling

System Manager

- Graphical utilities to manage and monitor a distributed integration solution from a central location
 - Adapters
 - Servers
 - Processes
- SNMP Support for external systems management
- Tivoli System Management Support











The challenges and rewards of implementing online Wealth Management solutions

norwichunion.com - context

- Aviva is an international parent holding company covering businesses in 50 countries with assets >
 \$200bn dollars
- Norwich Union is the UK sub brand of Aviva and is one of the top UK 20 companies by size value
- 'norwichunion.com' provided the Wealth
 Management functions within the Norwich Union
 Life company
- Norwichunion.com is now the Norwich Union

 IBM Software Group company web brand



Wealth Management - goals

To be the wealth Management provider of choice

To integrate an increasing range of informational and transactional online financial services into a single experience – 'Virtual advisory services', Supermarket of funds, Share Trading, Deposit accounts, Loans ...

To provide a new financial services channel to market

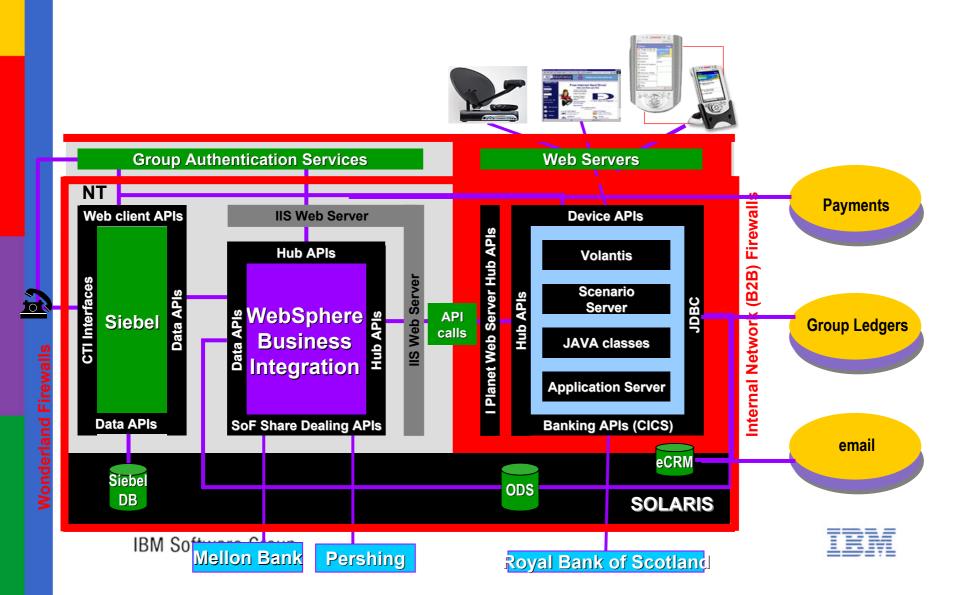


Wealth Management - Challenges

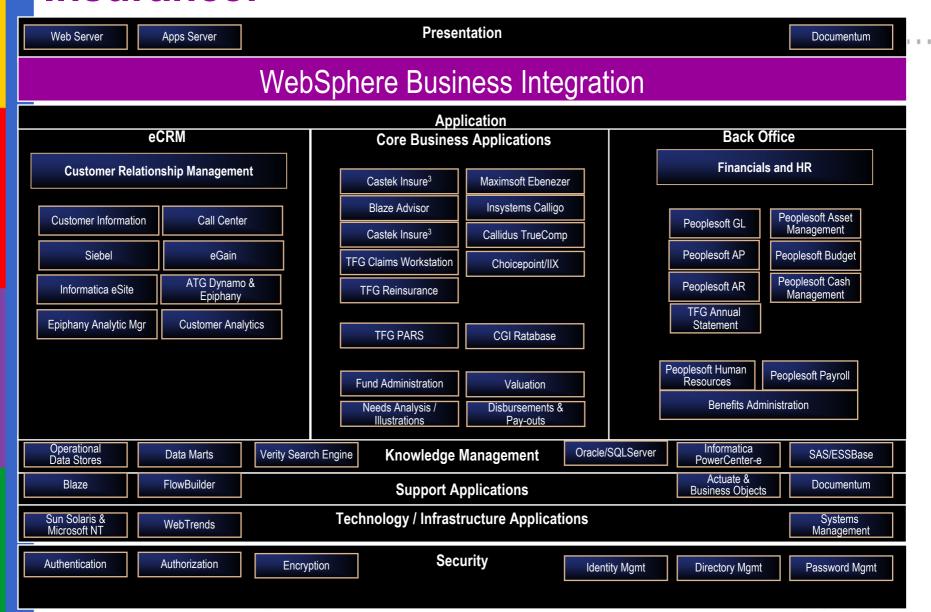
- 'Plug and play' business services
- Multi-channel access
- Rapid personalised user experience
- Unpredictable loads
- 24 x 7 operations
- Security



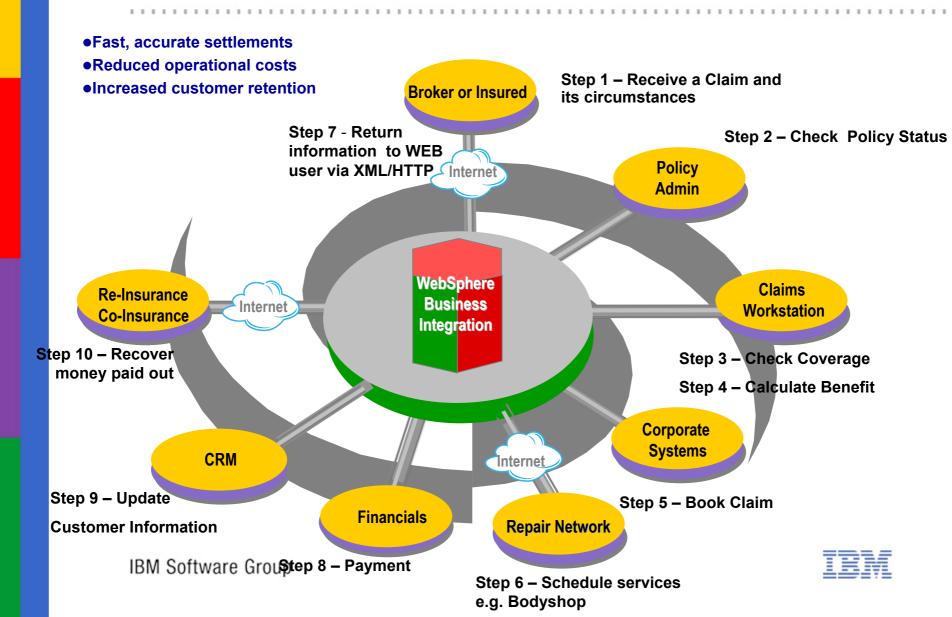
Wealth Management: WebSphere Business Integration enabled Norwich Union to deliver it for their customers.



Insurance:



Insurance Claims Process



Customer Management: What do Financial Services companies want to do?

- Price products properly / more discerningly
- Sell more products
- Increase profit margins
- Reduce cost to the Company
- Sell to customers who will buy and produce better profits for the Company
- Increase retention rate and cross-sell rate
- Identify who makes the Company money, when and who does not

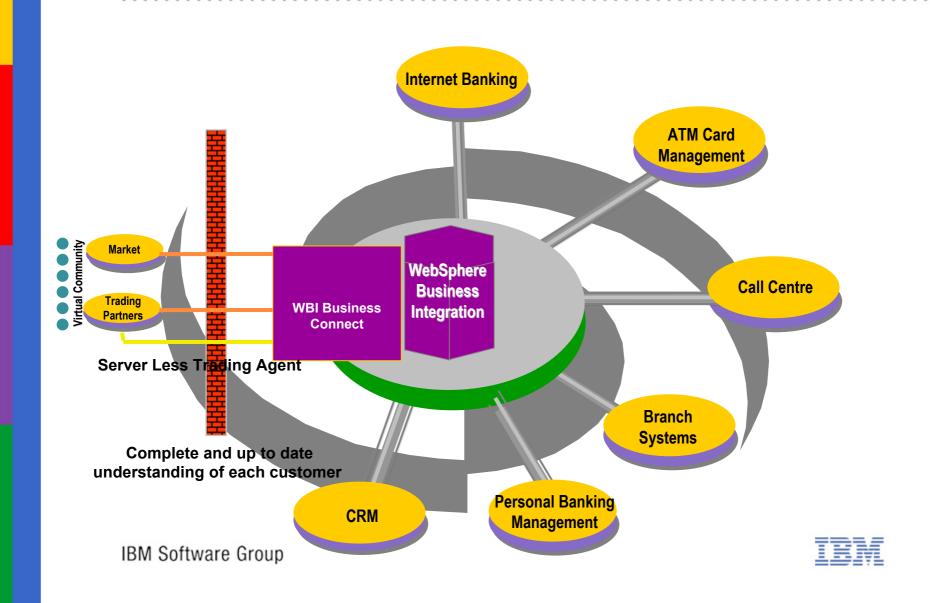


What are the key issues?

- How do you fix the best price for customers?
- Who are the valuable customers?
- Why are they profitable and when?
- Which have the propensity to buy more?
- What products do they have already enterprise-wide?
- How do they want to buy and how does this change over time?
- What is their total value when and how much?
- What are the cross-sell opportunities when, what channel?



Retail Banking Integrated Delivery Channels



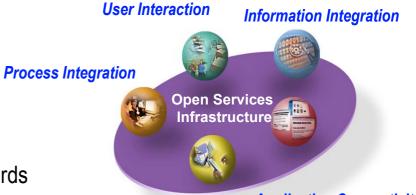
IBM WebSphere Business Integration enables new Financial Services capabilities

- Optimise ROI of global mergers with scale based cost savings, and rapid business unit integration
- Reduce legacy systems costs while integrating new capabilities promised by investments in enterprise applications
- Compete on speed reduce cycle times in underwriting, claims, customer acquisition
- Increase profits and retention through intimate knowledge of customers
- Fulfill customer expectations for customized products with low cost 24X7 service and wireless access
- Develop wealth management solutions with a financial planning focus
- Quickly implement new low-cost distribution models to compete with new market entrants
- Respond to deregulation, and new regulations in:
 - "Straight through processing"; Digital signatures & privacy; Pension restructuring
- Leverage standards to move financial information and participate in emerging B2B exchanges

IBM Business Integration Strategy

- A common programming model for a service-oriented architecture (SOA) based on standards
 - > J2EE for implementation
 - Web Services for access and integration
 - Effective interoperability with other standards based integration platforms
- Shape our offerings from components that use a single technology infrastructure for runtime, connectivity and tools
 - WebSphere Application Server (J2EE runtime)
 - WebSphere MQ (Universal connectivity)
 - WebSphere Studio Workbench (Eclipse)
- Provide integration offerings based on our components to meet customers' desire for choice
- Protect customer investments

IBM Software Group



Application Connectivity
Build to Integrate

- Facilitate new levels of integration
- Promote new levels of reuse
- Unify disparate computing paradigms
- Link diverse underlying technologies
- Provide consistent business/technical vocabulary
- Span the software development cycle
- **■Improve time to market**



WebSphere industry focus



Banking

Financial Markets

Insurance

