

IBM SOA Executive Summit

Solve business problems faster through composite applications

Michael Liebow, Global SOA & Web Services Leader Courtney Spooner, SOA Management & Services Specialist John Baker, Wireless Service Area Leader

SOA on your terms and our expertise





SOA hype is a global phenomena

"IBM is a leader of SOA. We are delighted to introduce the new concept SOA to you.

The business is growing but the IT does not serve the business needs, what should we do?

SOA is an answer. With the new approach, SOA can link all things/services together and help your business flexible.

We are with you for your SOA success."



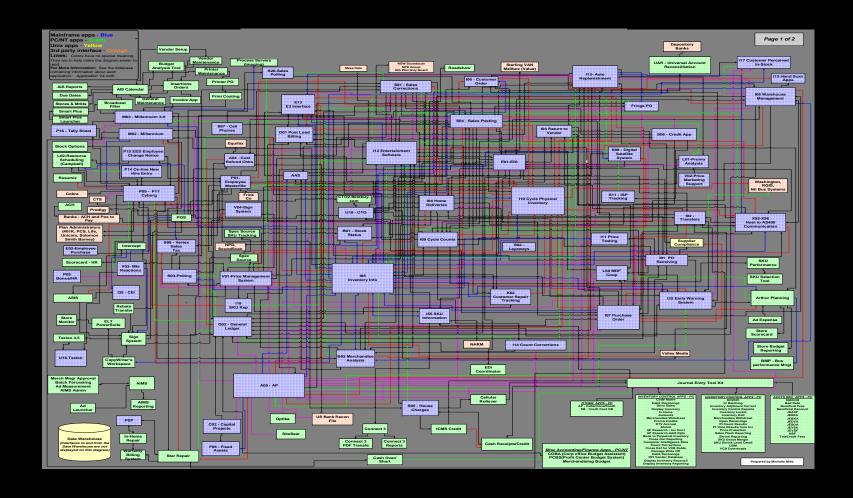
SOA Live! in Bangkok 2006, March 16, 2006, Napalai Ballroom, Dusit Thani Hotel, Bangkok







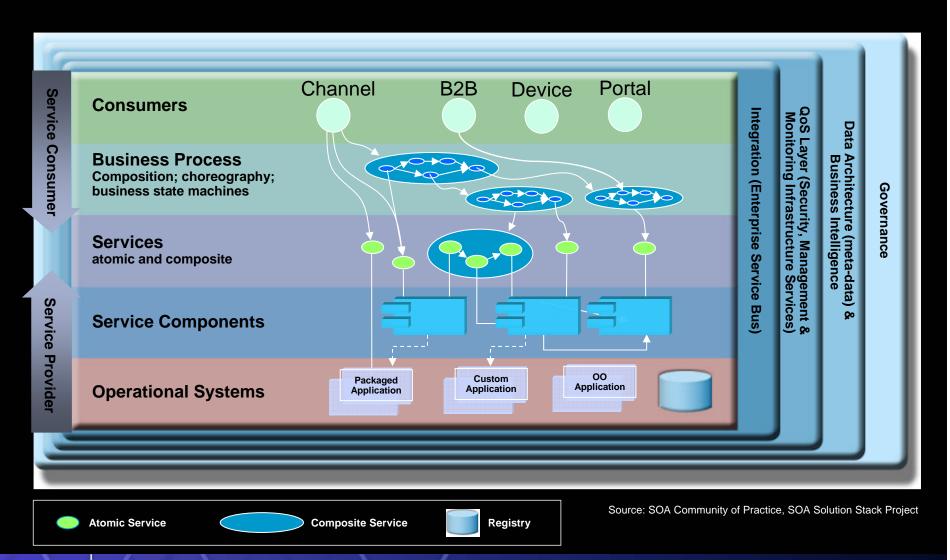
The barrier to business flexibility







The answer to business flexibility



SOA on your terms and our expertise





SOA and Web services cross-industry adoption

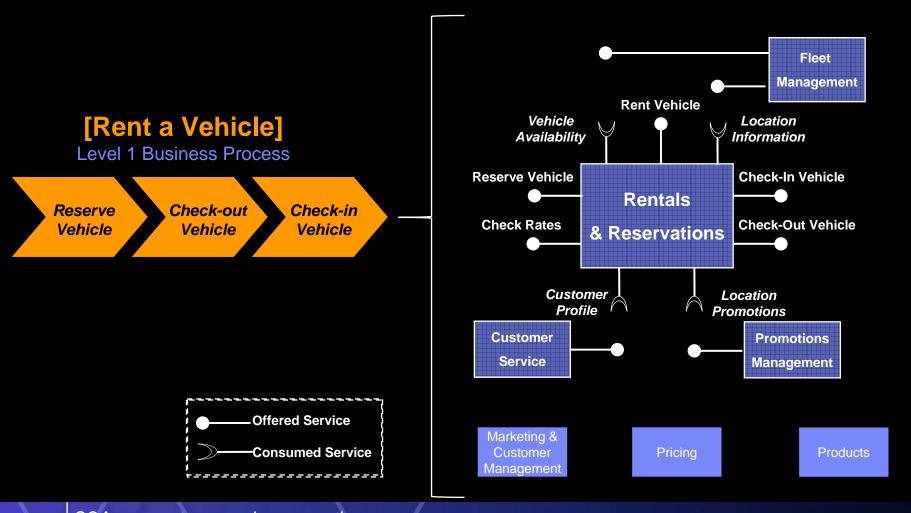
Industry Sector	Business Processes
Communications	Order fulfillment, network management, billing and collection
Financial Services	Claims processing, back-office banking, straight-through processing
Distribution	Inventory allocation and replenishment, logistics, distribution
Public	Tax/revenue management, clinical data management, drug development
Industrial	Import/export management, service after sale, buy & sell side supply chain

Source: IBM Market Assessment Panel





Example: the Car Rental and Reservation process decomposes into components and processes



SOA on your terms and our expertise





A Service Model provides a prescriptive approach to decompose a process and create a service hierarchy

Rental

- 1.2 Check-out Vehicle
- 1.3 Check-in Vehicle
- 1.2.3 Create Rental Agreement
- 1.2.4 Sign-out Vehicle from Lot
- 1.3.1 Locate Rental Agreement
- 1.3.2 Process Return Information
- 1.3.4 Return Vehicle to Lot

Payment Processing (NEW Functional Area)

1.3.3 Process Payment

Reservation

- 1.1 Reserve Vehicle
- 1.1.1 Check rates
- 1.1.2 Make Reservation
- 1.2.1 Locate Reservation
- 1.2.2 Modify Reservation
- 1.1.1.1 Get Location (pick-up/drop-off)
- 1.1.1.2 Get Date/time (pick-up/drop-off)
- 1.1.1.3 Choose Vehicle
- 1.1.1.4 Get Options Information
- 1.1.1.5 Check vehicle Availability
- 1.1.1.6 Offer Rates for Selection
- 1.1.2.1 Confirm Rental Information
- 1.1.2.2 Get Customer Information
- 1.1.2.3 Get Payment Information
- 1.1.2.4 Confirm Reservation
- 1.1.2.5 Create Reservation



"With SOMA, IBM has nailed this one. We're quite impressed with the clarity and detail of SOMA...
Customers should find IBM's SOA leadership to be relatively straightforward and understandable."

Jason Bloomberg Zapthink





The Service Model must align to the Business Objectives

Business Goal:

- Increase Revenue by 20%
 - Introduce New Products
 - Introduce New Channels
 - Increase Revenue per transaction

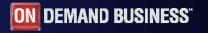
During specification SOMA uses multiple techniques to select services for exposure, and to specify those services and enterprise components they depend on

Up-sell higher class vehicle

- Understand Customer Profile
- Determine types of Up-sell vehicles
- Check vehicle availability
- Cross-sell additional options
- Purchase options individually
- Purchase option packages

Cross-sell Partner services

- Reserve Hotel rooms
- Reserve Airline tickets
- Book destination attractions
- Sell Navigation equipment post-rental





The IRS created a Service Model for e-filing returns

External Services

- Transmitter Services
 - Send Submissions
 - Get New Acknowledgements
 - + Get Acknowledgement
 - + Get Acknowledgements
 - * Get New Submissions Status
 - * Get Submission Status
 - Get Submissions Status

State Services

- + Get New Submissions
- + Get Submission
- + Get Submissions
- + Send Submission Receipts
- + Send Acknowledgements
- * Get New Acknowledgement Notifications
- * Get Acknowledgement Notification
- * Get Acknowledgement Notifications

Internal Services

- EMS (Electronic Management System)
 Services
 - EMS Send Submissions
- IFA Services
 - IFA Send Submissions
 - + IFA Get New Acknowledgements
 - + IFA Get Acknowledgement
 - + IFA Get Acknowledgements
- MeF Processing Services
 - Process IRS Submission
 - EMS Process IRS Submission
 - + EMS Process Acknowledgement
 - + Process State Submission

Technique used in discovery:

- -Bottom-up analysis
- -Top-down analysis
- -Goal-Service analysis



... driving new innovation for an old institution

- Congressional mandate: 80% of transactions need to be electronic by 2007
- Need to move large, complex, legacy environment while reducing operating costs and providing improved flexibility
- Created robust, scalable service-oriented system that links external trading partners with new e-file applications and legacy systems
- Error rates reduced from 25% to 6% associated with manual adjustments to transmitted data
- Employee productivity increased through online availability of submission data









Composite applications created, deployed, and updated faster with SOA portlets

"Through 2007, an enterprise portal will be the first major application of SOA concepts for more than 50 percent of enterprises (0.6 probability)."

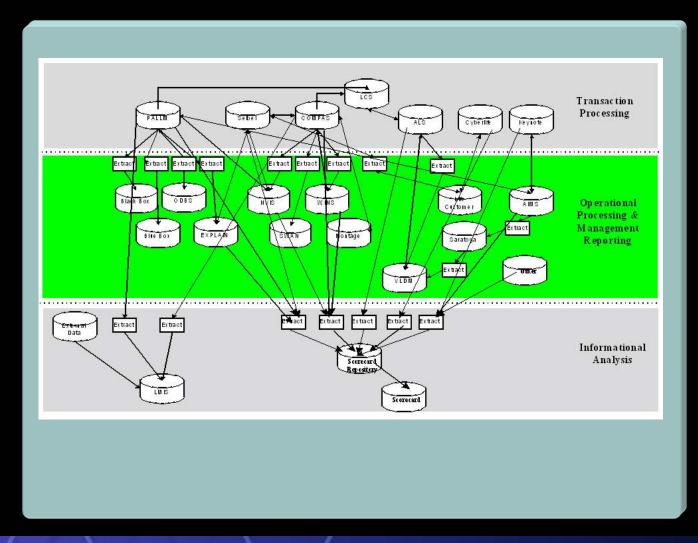


Gene Phifer, Gartner Research; Management Update: A Portal May Be Your First Step to Leverage SOA -Publication Date: 10/12/05



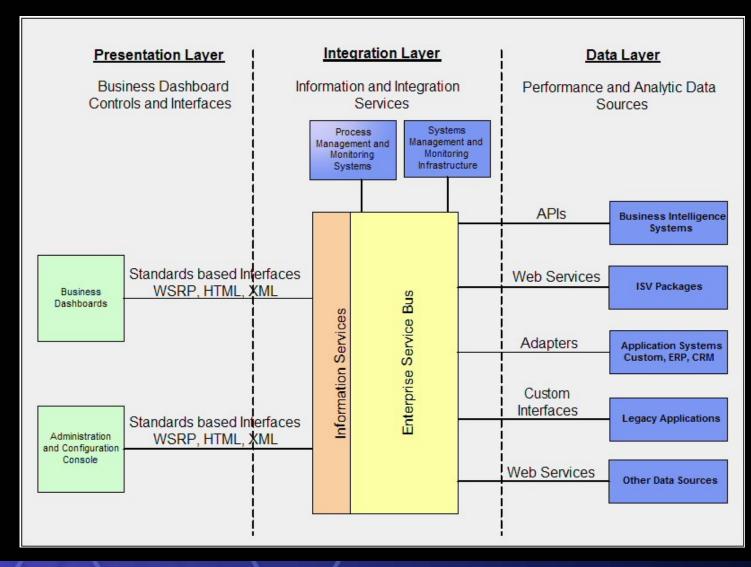


Insurance Business Process Hairball





Business Dashboard Solution Architecture





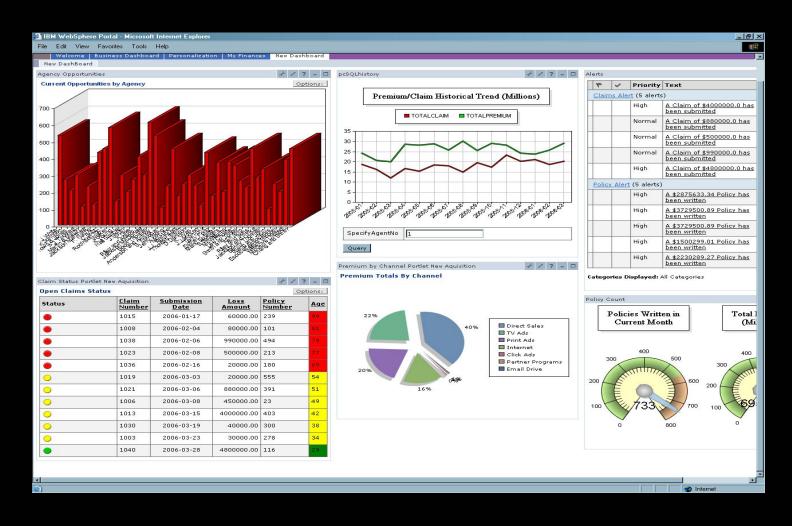
Insurance Property & Casualty Business Dashboard







Insurance Property & Casualty Business Dashboard

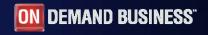




Composite applications created, deployed, and updated through devices

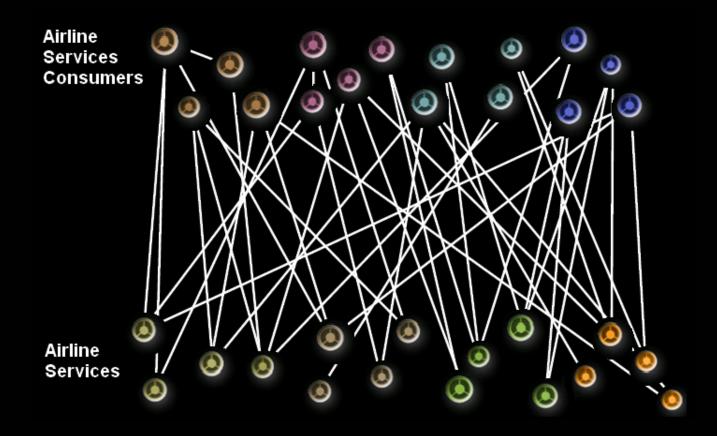
"Because enterprise mobility is increasingly about business strategy automation and execution, it's critical that organizations become fast and efficient at instantiating the business process itself—in application code, data and workflow supported by monitoring and analytic tools"

Source: Stephen D. Drake & Mary Wardley - IDC September 2005





Airline Business Process Hairball







Real-time Integration & Communications



ETA, Defects, PAX **EGDS**

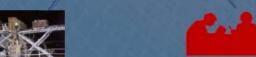






Continuous, Real-time Feeds

The Integrated Day-of-Ops Hub



ULDs Ready/Cargo Loaded DACS / DMIS / RMS



Desk;Staff; Transport Allocation



Timely, Transparent live, Common information

MVT, PAX Partners



Gate Allocation ATC Systems



Flight Plan, Crew, A/C LIDO, OCS. CMS

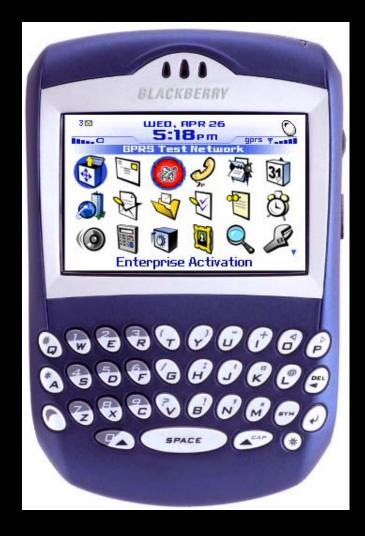


MELs, Alerts EMPACS



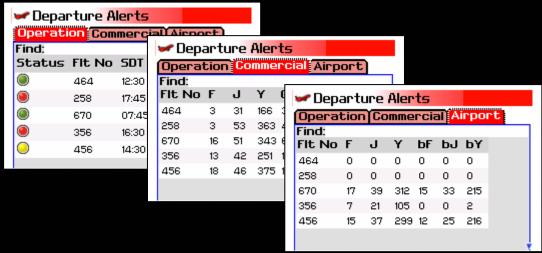


Airline Alert Demonstration



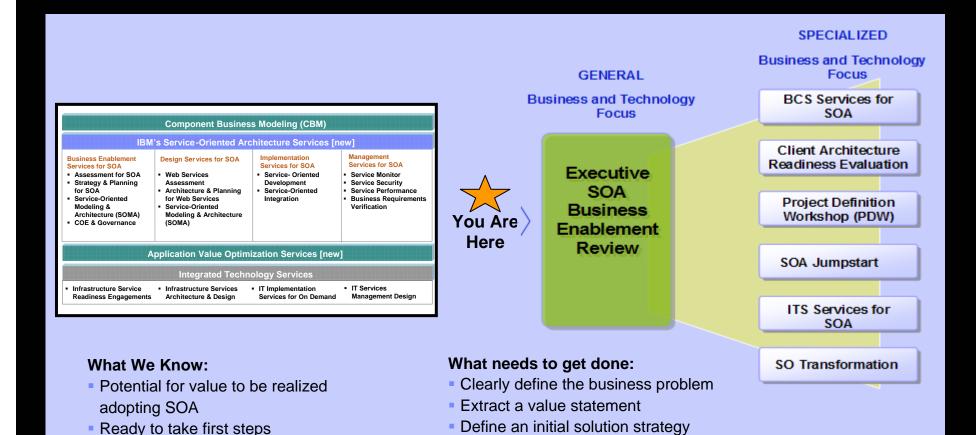








We can work with you to define the right approach



Propose specific action

Strong interest from your team



Questions and Answers



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