

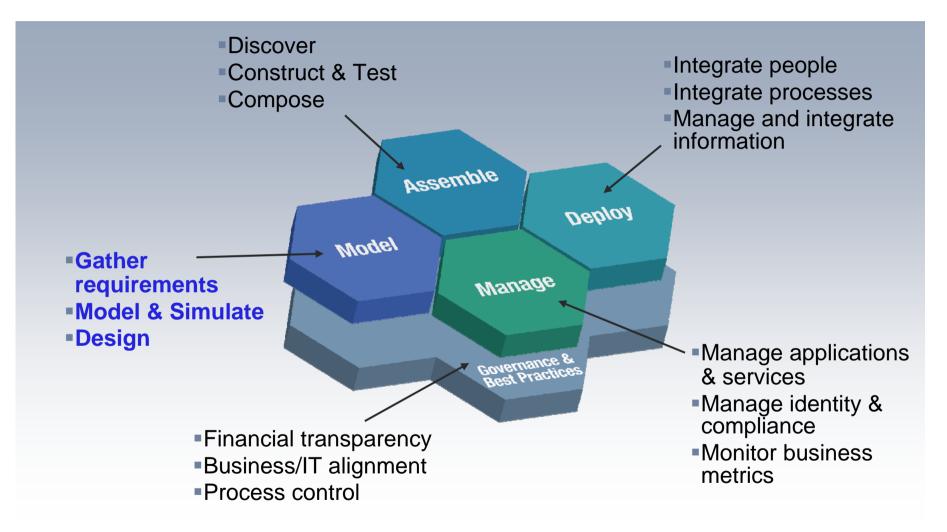
C1050 - Getting Started



10 July, 2008

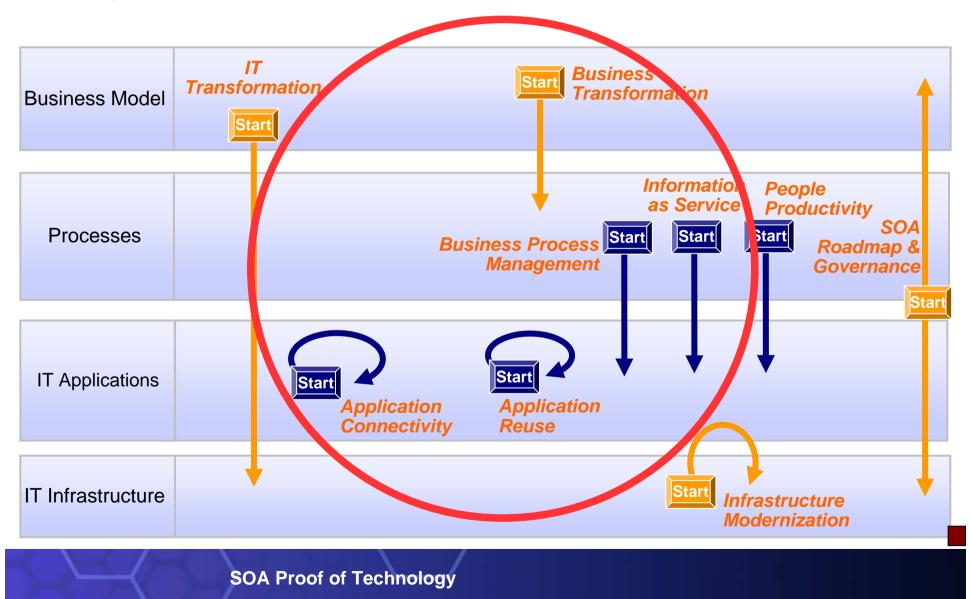


The SOA Lifecycle





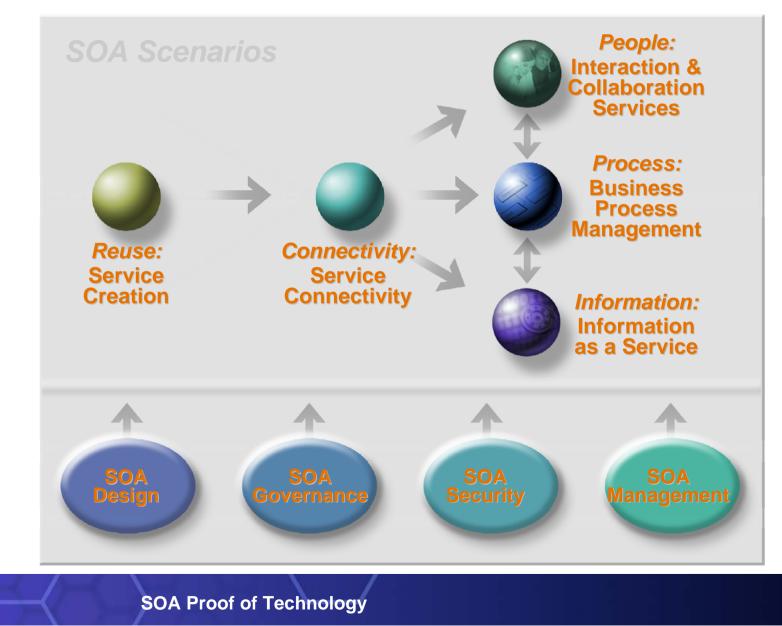
Entry Points for SOA Transformation







SOA scenarios answer 'how to get started' with the SOA entry points



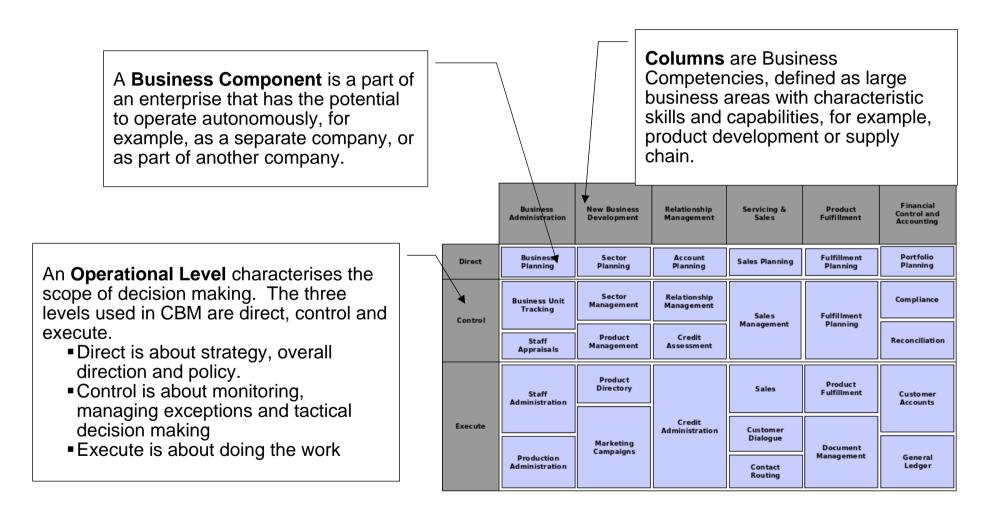


IBM has techniques to help accelerate business innovation

Business priority	IBM technique	Outcome	
Drive growth and achieve differentiation by leveraging core competencies	Component Business Modeling Services SM CBM	Developing the business case for transformation by creating a logical representation of a business, making it easier to analyze business process performance and define differentiating components	
Assess current SOA adoption maturity level of the organization to make it run as an integrated and seamless part of the business	SIMM- Service Integration Maturity Model	Identify the pain points for the scoped projects Identify the Gaps and build the SOA Roadmap	
Develop a flexible set of business-aligned IT services that collectively fulfill an organization's business processes and goals while leveraging existing IT assets	Service-Oriented Modeling and Architecture	An SOA design recommendation that includes a detailed description of the SOA service model and solution architecture	



Service Oriented Enterprise - Business View





Business View : Component Business Model

- The enterprise is mapped out as a set of categorized business components
- Heat map highlights components for analysis based on criteria such as gaps and efficiency
- Enables approaches to understanding how the business can be improved

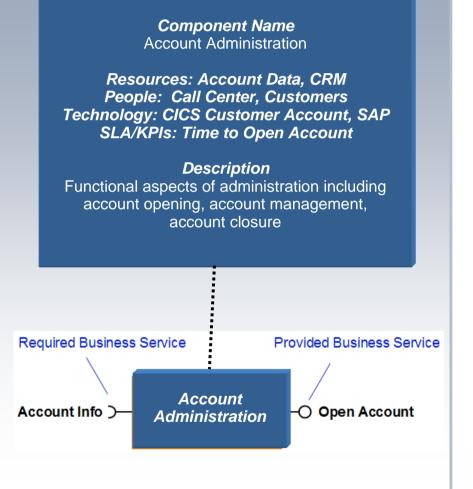
	Business Administration	New Business Development	Relationship Management	Servicing & Sales	Product Fulfillment	Financial Control and Accounting
Directing	Business Planning	Sector Planning	Account Planning	Sales Planning	Fulfillment Planning	Portfolio Planning
Controlling	Business Unit Tracking	Sector Management	Relationship Management	Sales	Fulfillment	Compliance
Controlling	Staff Appraisals	Product Management	Credit Assessment	Management	Monitoring	Reconciliation
	Account Administration	Product Directory		Sales	Product Fulfillment	Customer Accounts
Executing	Product Administration		Credit			
Executing	Purchasing	Marketing Campaigns	Administration	Customer Service	Document	General Ledger
	Branch/Store Operations	Campaigns		Collections	Management	





Business Components Provide The Operation Model

- A business component is "a grouping of the people, technology, and resources delivering specific business value"
- Components have well-defined interfaces, allowing them to interact smoothly with each other and to be 'snapped' in and out at will, like building blocks"
- The Interfaces of the Business Components Enable Identification of Candidate Business Services





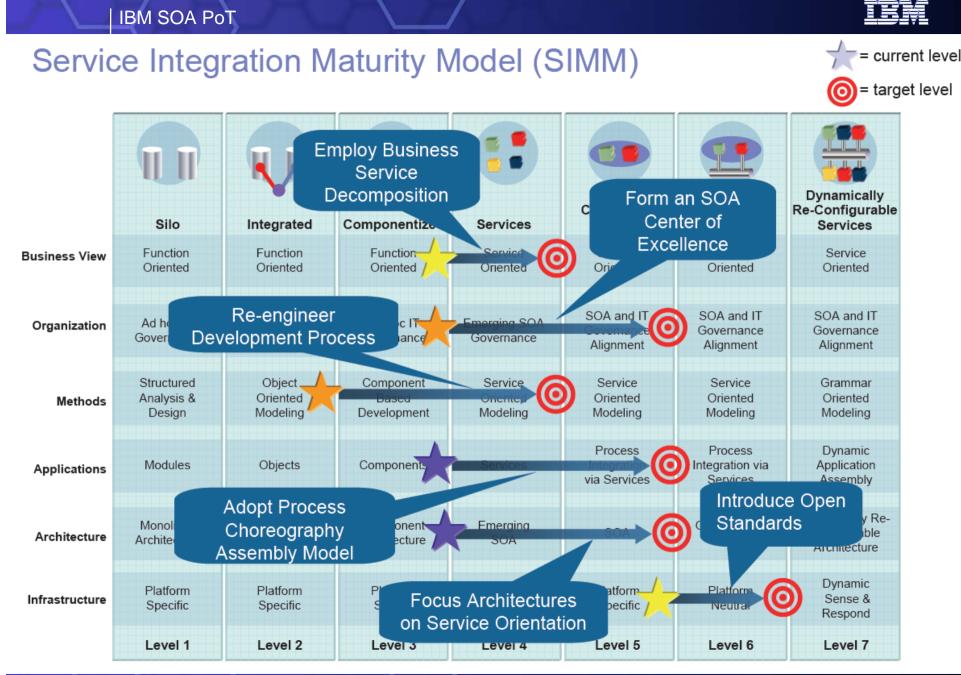
IBM has techniques to help accelerate business innovation

Business priority	IBM technique	Outcome	
Drive growth and achieve differentiation by leveraging core competencies	Component Business Modeling Services SM CBM	Developing the business case for transformation by creating a logical representation of a business, making it easier to analyze business process performance and define differentiating components	
Assess current SOA adoption maturity level of the organization to make it run as an integrated and seamless part of the business	SIMM- Service Integration Maturity Model	Identify the pain points for the scoped projects Identify the Gaps and build the SOA Roadmap	
Develop a flexible set of business-aligned IT services that collectively fulfill an organization's business processes and goals while leveraging existing IT assets	Service-Oriented Modeling and Architecture	An SOA design recommendatio that includes a detailed description of the SOA service model and solution architecture	



The Service Integration Maturity Model (SIMM) helps define a roadmap for incremental IT and business transformation.

	Silo	Integrated	Componentized	Services	Composite Services	Virtualized Services	Dynamically Re-Configurable Services
Business View	Function Oriented	Function Oriented	Function Oriented	Service Oriented	Service Oriented	Service Oriented	Service Oriented
Organization	Ad hoc IT Governance	Ad hoc IT Governance	Ad hoc IT Governance	Emerging SOA Governance	SOA and IT Governance Alignment	SOA and IT Governance Alignment	SOA and IT Governance Alignment
Methods	Structured Analysis & Design	Object Oriented Modeling	Component Based Development	Service Oriented Modeling	Service Oriented Modeling	Service Oriented Modeling	Grammar Oriented Modeling
Applications	Modules	Objects	Components	Services	Process Integration via Services	Process Integration via Services	Dynamic Application Assembly
Architecture	Monolithic Architecture	Layered Architecture	Component Architecture	Emerging SOA	SOA	Grid Enabled SOA	Dynamically Re- Configurable Architecture
Infrastructure	Platform Specific	Platform Specific	Platform Specific	Platform Specific	Platform Specific	Platform Neutral	Dynamic Sense & Respond
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7





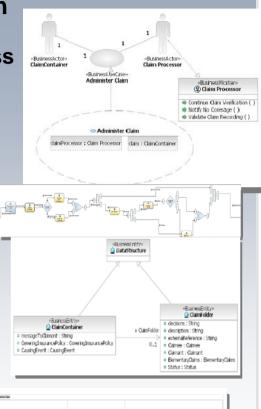
IBM has techniques to help accelerate business innovation

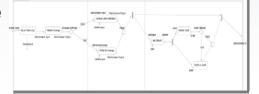
Business priority	IBM technique	Outcome	
Drive growth and achieve differentiation by leveraging core competencies	Component Business Modeling Services SM CBM	Developing the business case for transformation by creating a logical representation of a business, making it easier to analyze business process performance and define differentiating components	
Assess current SOA adoption maturity level of the organization to make it run as an integrated and seamless part of the business	SIMM- Service Integration Maturity Model	Identify the pain points for the scoped projects Identify the Gaps and build the SOA Roadmap	
Develop a flexible set of business-aligned IT services that collectively fulfill an organization's business processes and goals while leveraging existing IT assets	Service-Oriented Modeling and Architecture	An SOA design recommendation that includes a detailed description of the SOA service model and solution architecture	



Service Oriented Analysis, Modeling, and Design

- Top Down Approach Business Requirements can be rendered as a Business Process Model
 - Articulate and model the business intent as a process
 - Process model becomes an input for service design
- Bottom Up Approach Existing IT assets are discovered and evaluated as possible services
 - Identify existing components as candidate services
 - Assets can be transformed into service interfaces and implementations
- Meet-In-The-Middle Approach Identification of business goals and sub-goals
 - Goals and sub-goals correlate to candidate services
- UML Profile for Software Services and RUP SOMA enforces discipline in designing software services







SOMA (Service Oriented Modeling and Architecture) *Identification, Specification, Realization and Implementation of Services, Components, Flows*

Identification, Specification, Realisation & Implementation

SOMA is IBM's end to end SOA Solution development method

SOMA is an integral part of the Rational Unified Process

SOMA has the following phases:

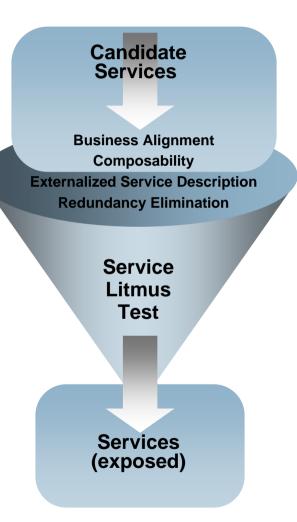
- Service Identification
- Service Specification
- Service Realization
- Service
 - Implementation





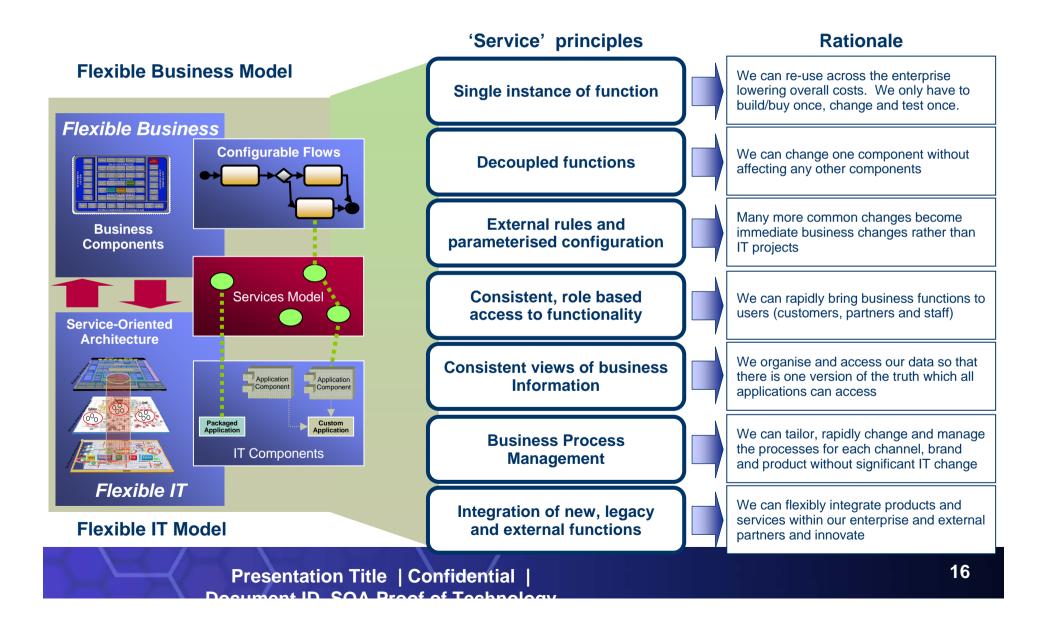
Service Exposure Decisions Within Service Identification

- Business Alignment:
 - Is the service business relevant?
 - Is funding available for service development and management?
 - Is the service sharable?
- Composability
 - Is the service consistent with NFRs at the composite level?
 - Is service stateless?
 - Is the service self-contained? (Are there dependencies?)
 - Is the service technology neutral?
- Externalized Service Description
 - Is the an externalized service description e.g. WSDL?
 - Can the service be discovered and bound via the service description?
 - Does the description contain meta-data about itself?
- Redundancy Elimination
 - Can the service be applied to all processes where its function is required?





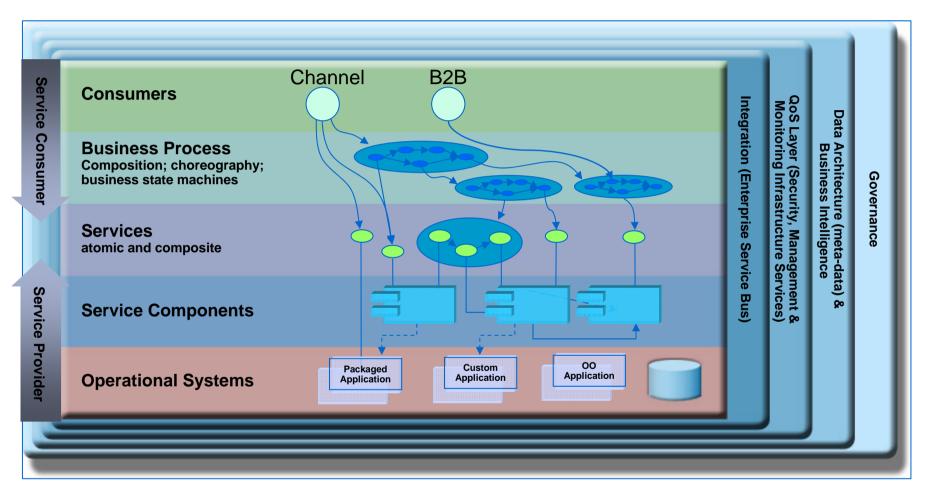
A flexible business model requires an enabling vision defined around a set of "service" principles

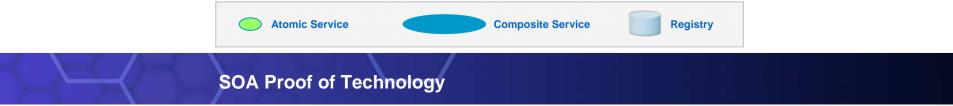


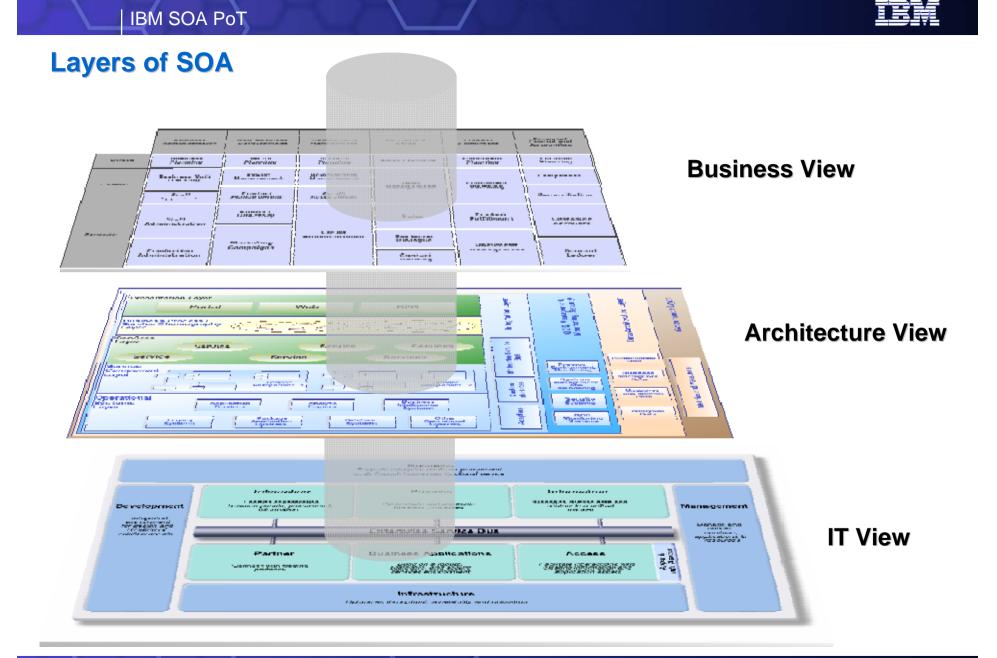




IBM's SOA Conceptual Layers







Presentation Title | Confidential |



Align business architecture and IT architecture

