



SOA and BPO

“SOA orchestration with flow”



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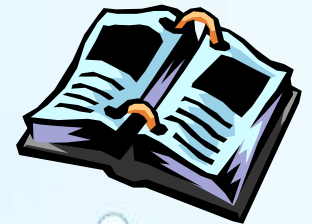
Jason Huggins
Subject Matter Expert - Uniface





Objectives

- Define SOA
- Adopting SOA
- Business Process Orchestration





Service Oriented Architecture

“Business Level Componentisation”

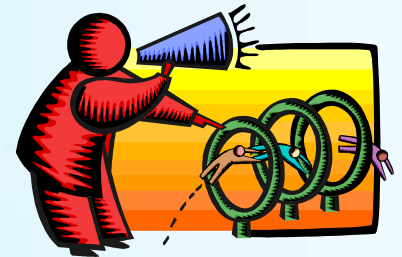
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The demands on modern IT

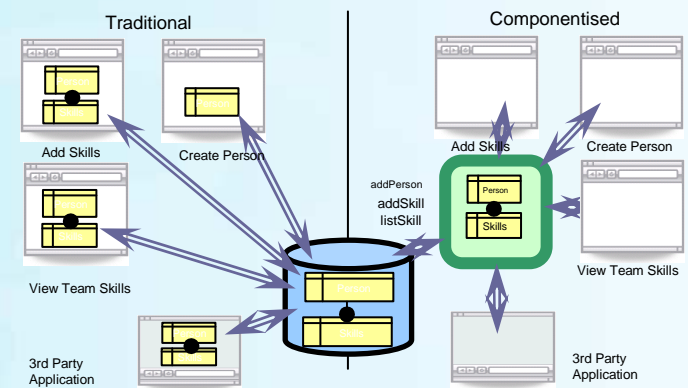
- Enterprises require integrated business systems
 - Integrate and compose new functionality
 - Connect and reuse business logic
 - Integration across domains
- Standards based interoperability
- Orchestration of the composite solutions
- Business process streamlining





What is SOA?

- **Componentisation in essence**
 - Logical grouping business logic into discrete objects
 - Encapsulation of software into reusable objects.
- A known concept at a **business function level**
 - Modular programming
 - Component based development
 - etc...





Componetisation Principles

- Discrete **Reusable** business logic
- Object have **Distinct Roles & Responsibility**
- Objects hold data as **Properties**
- Objects implement behaviour and message passing through **Methods**
- Encapsulation yields **Data & Complexity Hiding**
- **Design By Contract**

Maintainability Reliability
Extensibility Reusability
Portability Usability
Testability Interoperability





Why SOA?

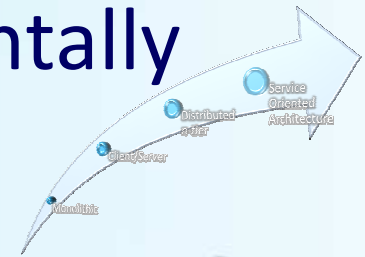
- Problems with traditional applications
 - Organizational know-how embedded in existing business application stacks. No reuse!
 - Traditional applications only address one business domain at a time
 - Mixed, incompatible architectures
 - Business process is hidden





The SOA Solution

- SOA helps integrate business across domains
 - Achieve interoperability by normalizing interfaces
 - Services act as proxies to functionality
 - Services can be orchestrated with workflow
- SOA helps you to modernize incrementally





Adopting SOA

"Where do I start?"

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Common questions

- Can a SOA architecture that takes forever to plan and implement truly provide business agility ?
- Can a SOA architecture that is built using agile and bottom up thinking provide enterprise benefits?





Pragmatic SOA Roadmap

Can we approach SOA in an iterative fashion, while delivering a balance between short term and long term ROI ?





How to balance strategy and process

- Align initiatives and projects to business goals.
- Define a clear business vision for each project
- View how project fits the business value chain
- Define business process
 - At the project level
 - At levels above the project
- Use effective enterprise modeling tools





Pragmatic Governance

Just do it mindset

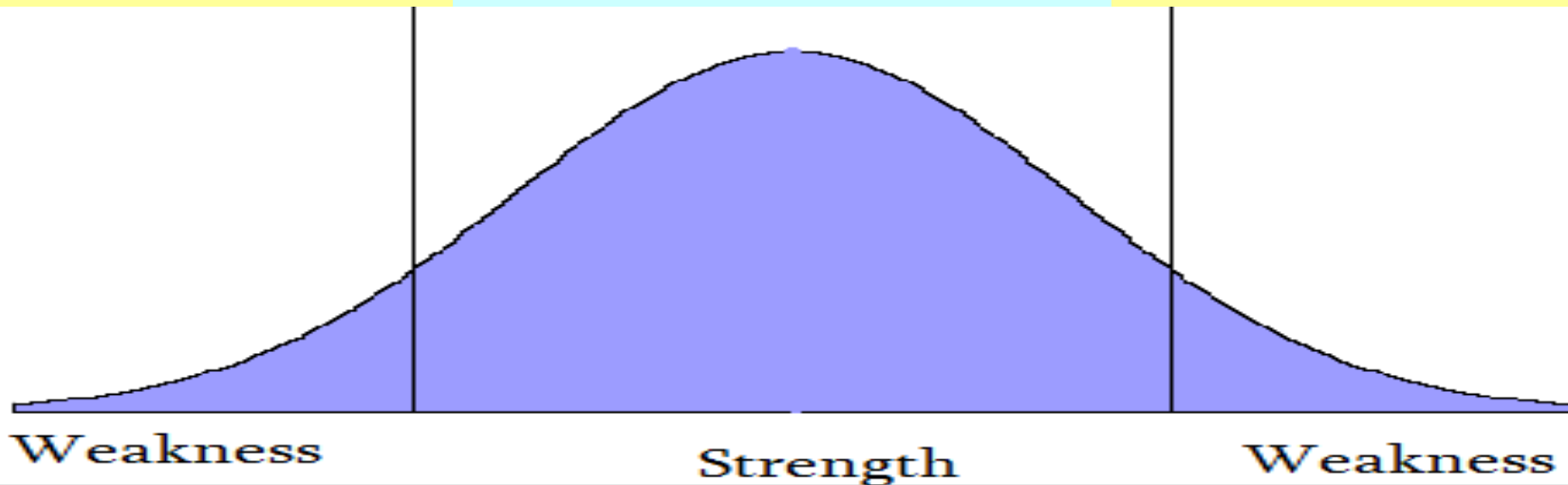
- No governance or management
- Web Services = SOA
- No real reuse
- Lots of services, very little architecture
- Tight Coupling

Pragmatic Governance

- Services are built using a well defined but agile plan
- Governance is provided to make SOA adaption easier not harder
- Agile but defined

Analysis Paralysis

- Services take too much planning and big and long meetings
- Governance only providing enforcement, not enablement
- Too much paperwork makes adaption really hard





Business Process Orchestration

“Composition, Message Passing and Object Management”

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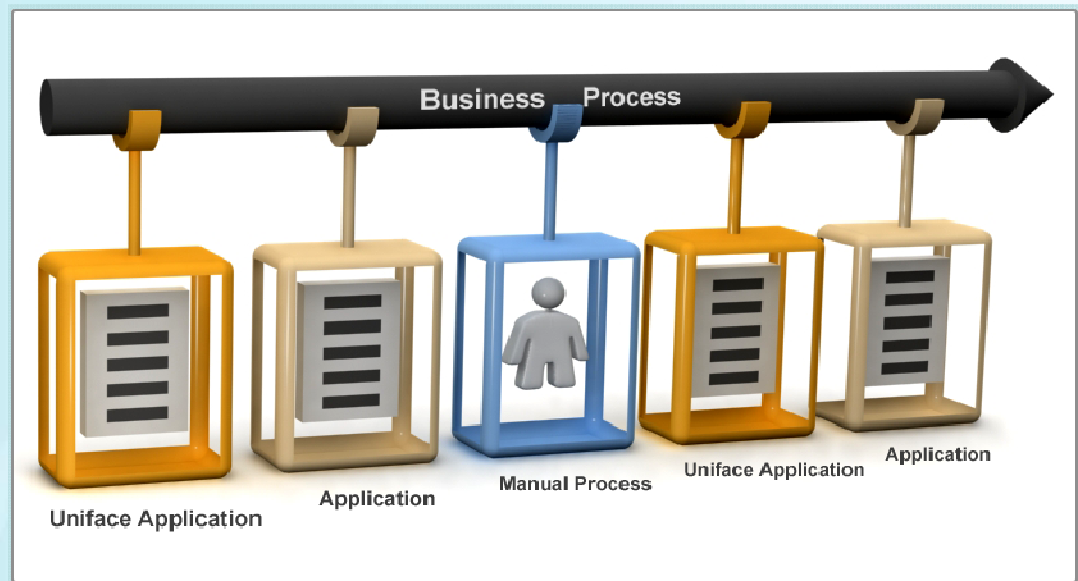
SOA Governance and BPO

Process Driven Development (SOA + process layer)

New applications

Reuse of the existing applications

Connect to 3rd party applications



BPO using Uniface Flow

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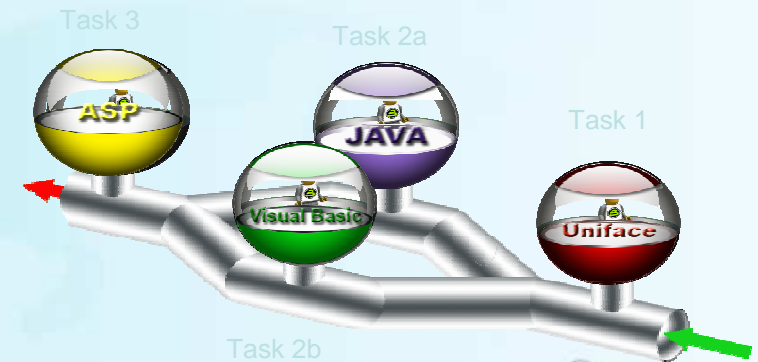
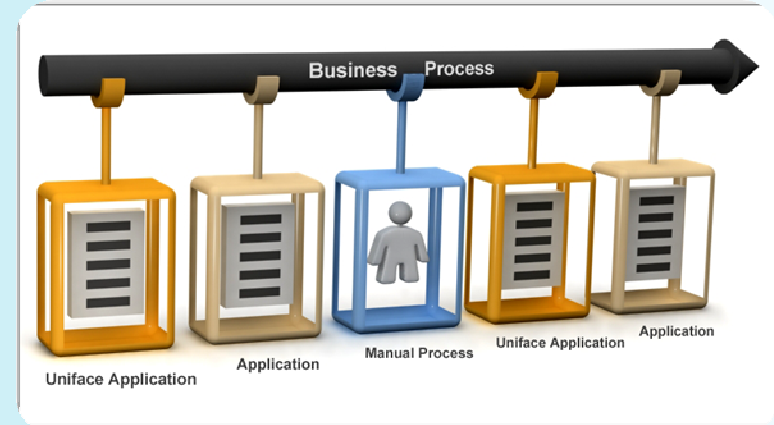




What is Uniface Flow?

**Business Process Orchestration
tool for modelling, integration and
management of business processes**

**Flow Modeller
Deployment Environment
Flow Dashboards
Process Tuning & Management**





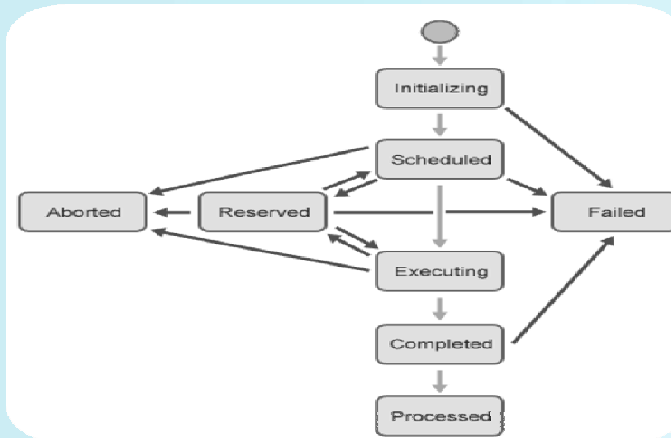
Uniface Flow Features

Graphical
Modelling
Interface

Separate
Testing

Auditing /
Traceability
(states)

Business Rules



Dashboards

APIs
Uniface, Java, Com

Security

State
Maintenance

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Demo

“Uniface Flow Development And Deployment”

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Adopting SOA and workflow

Start simple!

- Identify pilot projects for componentisation
- Use applications that can collaborate in the context of a business process
- Focus on passing self-contained messages
- Stay pragmatic!





Businesses using workflow



Northgate – UK, VAR

Provided Crime & Intelligence Solution to UK Police Forces



Open University – UK

HR Administration processes

B-Plan Information Systems – UK, VAR

Financial management system



VSE – ISO 9001 certified Japanese multimedia corporation

Standardize construction and maintenance work

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delivering
rich uniface applications

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Thank You



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