

BPMN & Business Process Management Best Practices

introduction

- Course Objectives
- Lesson Review
- Why BPM and BPMN?
- Topology of a BPM reference architecture
- BPM Vendors overview
- Positioning of vendor tools

BPM Overview

- BPM vs BPMS
- When to choose a BPMS
- IT and business must work hand in hand
- Matching the right technology to your problem
- Adopting a development model
- Overview of a BPM system

Architecture of a BPM System

- EAI and B2B aspects
- Topology and scalability
- Design tools
- Deployment tools
- Monitoring and management
- The process engine
- Process definition repository
- Transaction manager
- Connector framework

Understanding Basic Concepts and Architecture

- Overview of open standards
- XML, XSD, XPath, XSLT, SOAP, WSDL, UDDI
- Overview of the BPMN Standard
- The BPEL Suitcase Manifest
- basic concepts of a Process Manager
- Process Manager Implementation Options
- Installing a Process Manager
- Example: BizTalk 2006 vs Oracle SOA Suite

Modeling a process with BPMN

- The added value of BPMN
- Composability and basic services
- Promoting an incremental and iterative approach
- Why should Use cases drive the project?
- Declaration of message properties
- Use of correlation sets
- Designing concurrency
- BPMN implemented by vendors
- Oracle SOA Suite and BPEL4WS

a Simple BPMN Business Process

- Introduction to using a Process Designer
- PM Designer Layout
- Workspaces and Projects
- Creating a Business Process
- Adding Activities
- Deploying the Process

BPMN Fault Handling and Exception Management

- Defining Events
- Configuring Timeouts
- Handling Faults
- Catching Exceptions
- Compensation Management

Administering Processes using Process Monitoring

- Describing the Consoles
- Exploring the Administration Console
- Managing the Domain
- Viewing a PM Administration Server
- Platform Administration
- Interfacing with BAM (business activity monitoring)
- What about BAS? (business activity services)
- Adding a Notification to a Process
- Selecting a Notification Channel

Adapter support in a BPMS

- Adapters for a standards-based environment
- Selecting an adapter service
- Configuring a File adapter
- Supported and bundled adapters
- The adapter framework
- OEM adapters
- Example: SharePoint adapter in BizTalk
- Example: portal adapter in Oracle

Core BPMS features and Interfaces

- Repository support
- Database support
- The Adapter SDK
- The level of required customisation
- BPMN language compliance
- WS-* standards support
- Involvement of development languages
- J2EE containers or .Net?
- Human workflow solutions

BPM as enabler of SOA: Key components

- Application frontends
- Basic Services
- The value of an ESB
- Using a Repository
- Increased agility for the business

The BPM Board

- Distributing technology white papers
- Controlling & measuring improvement processes
- Managing the repository
- Setup of a quality gateway
- The 4 pillars of success

Governance and Business strategy

- The personal perspective
- Innovation, growth and flexibility
- Convincing the CEO, CIO, and Business units
- The past: data/functions vs objects & services
- Design implications for Architects
- Alignment of Business and IT

Choosing the right approach

- Start at the beginning: the business
- Definition of business competencies
- Identifying differentiators and overhead
- From requirements to components
- Reaching vendor independence
- Roadmap to enterprise renovation
- Continuous improvements