

Exploring BizTalk 2006

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Meet the expert: Rafiq Wayani has extensive experience including more than 20 years in IT as Systems Architect, Software Engineer, DBA, and Project Manager. Wayani has instructed in a variety of technical areas, has designed and implemented network and information systems, and is certified across a wide range of platforms and systems including Microsoft Solutions Developer, Systems Engineer, Application Developer, Database Administrator, Trainer; Novell Netware Administrator and Engineer; Master Certified Netware Engineer; and A Certified.

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Course description: Microsoft BizTalk Server 2006 is an integration platform designed to simplify the communication between diverse applications, as well as a development platform for building messaging-based solutions using XML. This course prepares the developer to work with the internals of each of the major building blocks of a BizTalk solution -- schemas, ports, pipelines, adapters and orchestrations.

Course outline:

Introduction to BizTalk Server

- Introduction
- Challenges
- What is BizTalk Server (BTS)
- BTS Services and Tools
- BTS Job Roles: Info Worker
- BTS Job Roles: Developers
- BTS Job Roles: IT Professional
- Reasons to Use BizTalk Server
- System Requirements
- Software Requirements
- Security Features
- Using BizTalk within VS 2005
- Add a New BizTalk Item
- View the Toolbox
- View the Properties Window
- Server Explorer Window
- View General Options
- Summary

Enhancements/Install/Config

- Introduction
- Management/Operations
- Business Users
- Windows Server Systems
- Setup/Migration/Deployment
- Messaging
- Flat File Schema Generation
- Pipelines from Orchestration
- Engine Throttling
- Granular Perf. Counters
- Resumable Susp. Scenarios

- Event-based Config. Changes
- New Included Adapters
- New Development Tools
- Installation Process
- Install BizTalk Server 2006
- Configure BizTalk Server 2006
- Summary

Flat File Schema - Part 1

- Introduction
- BTS Architecture
- BTS Architecture Visually
- Flat File Schema Wizard (FFS)
- Developers and FFS
- FFS Technical Features
- Creating XML and FFS
- Run the FFS Wizard
- Define Delimiter
- Define Child Elements
- Define Child Record Fields
- Validate the XSD
- Validate the Instance
- Summary

Flat File Schema - Part 2

- Introduction
- Complex Flat File Processing
- View a Complex Flat File
- Import a Complex Flat File
- Specify a Tag Identifier
- Define Child Elements
- Define Repeating Records
- Validate the Schema/Instance
- View the Instance

- Create a More Complex FF
- More Complex FFS Example
- Allow Early Term. Property
- Summary

BTS Maps

- Introduction
- Data Transform./Translation
- Description of BizTalk Maps
- Functoids Explained
- Create a New Map Demo
- Add/Modify Functoids
- Summary

BizTalk Schemas

- Introduction
- What is a BizTalk Schema
- An XML-Schema Defines
- BizTalk Supported Schemas
- Creating BizTalk Schemas
- Using the BizTalk Editor
- XML schema w/BizTalk Editor
- View Properties of the Schema
- Create a Flat File Schema
- Summary

BizTalk Messaging

- Introduction
- Messaging Overview
- BizTalk Messaging Model
- Subscriptions
- Ports
- Web Ports
- Send Port Group
- Message Routing
- Enable Message Routing

- Receive Location
- Enlist/Start Send Ports
- Messaging Demo
- View Sample Files Location
- Create a Strong Name Key
- Create a New BizTalk Solution
- Request.xsd Schema
- Input Instance Filename
- Schema Editor Extensions
- Structure of the Schema
- RequestDenied.xsd Schema
- Promote Fields
- Summary

Pipelines

- Introduction
- Introduction to Pipelines
- Pipeline Stages
- Receive Pipeline
- Receive Pipeline Stages
- Send Pipeline
- Send Pipeline Stages
- Using a Default Pipeline
- Pipeline Tools
- Things to Remember
- Create/Mod. Receive Pipeline
- Create/Mod. Send Pipeline
- Locate the PipelineTools
- Summary

Orchestrations

- Introduction
- Introduction to Orchestrations
- Orchestration Shapes

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- Orchestration Engine
- Dehydration/Rehydration
- Create a Pipeline/Map
- Insert Project into the GAC
- Add an Orchestration Project
- Create an Orchestration
- Physical Ports vs. Logical Ports
- Handling Messages
- Summary

Orchestration Shapes

- Introduction
- Messages and Orchestration
- Processing Shapes
- Flow Control Shapes
- Port/Role Link Shapes
- Nesting Shapes
- Correlation
- Orchestration View Window
- Create/Modify an Orchestration
- Add/Modify a Receive Shape
- Add/Modify a Decide Shape
- Add/Modify a Transform Shape
- Add/Modify a Send Shapes
- Add a Ref. to the Schema
- Refresh the Schemas
- Message Instance Variables
- Add Receive/Send Ports
- Modify Receive/Send Requests
- Transform Configuration
- BizTalk Expression Editor
- Build the Orchestration
- Summary

Deployment / Assemblies

- Introduction
- Introduction to Deployment
- Deploying an Assembly
- How BT Deployment Works
- Steps Required to Deploy
- Deploy an Assembly Using VS
- Summary

Deploying BizTalk Applications

- Introduction
- Asm. Deployment Methods
- After Deployment Tasks
- Binding Options
- Monitor Deployment with Logs
- Tips for Deployment
- Map Logical Ports to Physical
- Verify/Modify Host Inst. Logins
- Start the Services
- Test the Application
- Summary

Transactions

- Introduction

- Introduction to Transactions
- Steps to Create Transitions
- Scope Definition
- Synchronized Scopes
- Atomic Transactions
- Long-Running Transactions
- Tips for Transactions
- Set Up a Transaction
- Summary

Web Services

- Introduction
- Introduction to Web Services
- Set Up Web Services
- Create New Solution in VS
- Adding a Web Reference
- Add Functoids to Existing Map
- Add a Constant Value
- Build/Test the Schema Project
- Add a New Orchestration
- Add Send/Rec./Trans. Shapes
- Open BizTalk Admin Console
- Add Instance Messages
- Add Internal/Ext. Web Ports
- Deploy/Configure the Solution
- Configure Start Options
- Test the Application
- Summary

Business Rules

- Introduction
- Introduction to Business Rules
- Terminology: Vocabulary
- Terminology: Policy
- Terminology: Rule Store
- Terminology: Rules Engine
- Rules: Cond./Actions/Facts
- Business Rules/Orchestrations
- Example of a Business Rule
- Integrate Business Rules
- Business Rule Composer
- Create a New Vocabulary
- Publish the Vocabulary
- Create a New Business Rule
- Summary

Activity Monitoring

- Introduction
- Introduction to Monitoring
- Health and Activity Tracker
- Enable Bus. Activity Monitoring
- Use BAM
- Summary