CONTENTS

Chapter 1 ■ Getting Started with BizTalk Server 2006 1

An Introduction to BizTalk Server 2
What is BizTalk Server 2006? 2
Features of BizTalk Server 2006 4
BizTalk Server Architecture 5
Runtime Architecture 6
Management and Tracking Architecture 6
Business Activity Services Architecture 8
EDI and AS2 Solution Architectures 9
Deploying BizTalk Server 2006 11
Installation of BizTalk Server 2006 12
Configuring BizTalk Server 16
Basic configuration 16
Custom configuration 18
Installing Enterprise Single Sign-on 19
Installation of SSO Client Utility 20
Tools in BizTalk Server 2006 22
BizTalk Schema Editor Tool 22
Orchestration Tool 23
Mapper Tool 23
Pipeline Tools 24
BizTalk Explorer Tool 25
Summary 25

Chapter 2 ■ Exploring Business Process 27

Building a Business Process 28
Understanding BizTalk Orchestration Designer Surface 28
Creating a BizTalk Business Process 30
Introducing Orchestration Designer Shapes 32
Summary 40

Chapter 3 ■ Creating a Sample BizTalk Applications 41

Selecting the BizTalk Project Type 42
Adding an Orchestration 44
Message Adding 45
Adding Ports in the Project 47
Adding receive/send shapes 51
Assignment of Strong Naming to the Assembly 53

Deploying the Project 55
Accessing the Application in BizTalk Server 2006 56
Using the Administration Console 56
Creating a Physical Receive Port and Location 57
Creating a physical send port and location 61
Performing the Binding of logical and Physical port 63
Testing the Application 65
Summary 69

Chapter 4 ■ Implementing Schemas in BizTalk Applications 71

Creating a New Schema Based Project 72
Adding Schema to the Project 74
Setting the Data Type 77
Promoting a Node 79
Validating a Schema in the Project 80
Adding an Orchestration 81
Adding the Schema to Messages 82
Adding Different Shapes to the Orchestration 83
Deploying the Project 91
Accessing the Application in BizTalk Server 2006 92
Using the BizTalk Explorer 92
Testing the Project 98
Working with Flat File Schemas 100
Adding a Flat-File Schema to the Project 101
Mapping the Messages 104
Validating the Mapping 107
Testing the Mapping 107
Adding a Schema to Messages 107
Adding a New Port Type to the Orchestration 108
Adding Different Shapes to the Project 108
Adding a Transform Shape 109
Adding a Port 111
Adding Send Shape 111
Adding a Send Pipeline 112
Deploying the Project 114
Configuring the Application in BizTalk Server 2006 115
Summary 119

Chapter 5 ■ Implementing Business Rules 121

Business Rules 122
Installing the Business Rule Composer 123
Creating a Policy 127

Publishing and Testing a Policy 135
Calling the Policy from an Orchestration 139
Deploying the Policy and Testing the Application 145
Summary 147

Chapter 6 ■ Overview of B2B Process 149

The B2B Process 150
The Traditional B2B Process 150
The B2B E-Commerce Process 151
Open Buying on the Internet (OBI) 166
Summary 167

Chapter 7 ■ Troubleshooting the BizTalk Applications 169

Health Monitoring 170
Using Health and Activity Tracking (HAT) 170
Common Adapter Errors in BizTalk Server 178
Error Handling in BizTalk Server 179
Handling Errors during BizTalk Server Installation 179
Handling BizTalk Server Configuration Errors 180
Handling Single Sign-On Service Implementation Errors 181
Handling Errors during BizTalk Server Administration 182
Summary 183