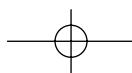
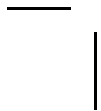
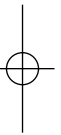
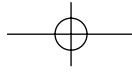
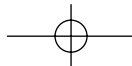


Contents at a Glance

<i>Introduction</i>	<i>xxiii</i>
Chapter 1 • Getting to Know Exchange Server 2007	1
Chapter 2 • Exchange Server 2007 Administration	53
Chapter 3 • Start Your Engines — Preparing for Migration	85
Chapter 4 • Installing Exchange Server 2007	101
Chapter 5 • Performing an Intra-Organization Migration	127
Chapter 6 • Performing an Inter-Organization Migration	155
Chapter 7 • Exchange Management Shell Primer	169
Chapter 8 • Accepting E-Mail and Generating E-Mail Addresses	193
Chapter 9 • Administering Recipients	215
Chapter 10 • Managing Resource Mailboxes	289
Chapter 11 • Managing Public Folders	311
Chapter 12 • Sizing Storage Groups and Databases	341
Chapter 13 • Implementing Recoverability Solutions	365
Chapter 14 • Daily and Weekly Management of Exchange Server 2007	407
Chapter 15 • Client Access Server Functions	439
Chapter 16 • E-Mail Routing	487
Chapter 17 • Implementing Antispam Protection	503
<i>Index</i>	<i>527</i>







Contents

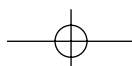
Introduction xxiii

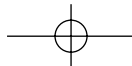
Chapter 1 • Getting to Know Exchange Server 2007 1

- New Exchange Server 2007 Features 1
 - Improvements to the Administrative Interface 2
 - Continuous Replication 2
 - Room and Equipment Resource Management 7
 - 64-bit Architecture 9
 - Schedulable and Internal/External Out-of-Office Messages 11
 - Transport Rules 11
 - Message Classifications 12
 - Messaging Records Management 13
 - Per-User Journaling 14
 - Unified Messaging 14
 - Automatic Configuration of Outlook 2007 16
 - Outlook 2007 and Exchange Server 2007 18
 - Windows Mobile and Improved Security 21
- Changes and Improvements to Existing Features 24
 - Server Roles 24
 - Databases and Transaction Logs 31
 - Send and Receive Connectors 32
 - Service Names 33
 - Message Security Features 37
 - Antispam Features 40
 - Outlook Web Access 42
- Exchange Editions and Licensing 43
- Hardware and Software Requirements 45
 - Hardware Requirements 45
 - Operating System Requirements 50
- Summary 51

Chapter 2 • Exchange Server 2007 Administration 53

- Interfaces! Get Your Management Interfaces! 53
 - Old School With the Exchange System Manager Console 54
 - Other Exchange 2000/2003 Management Interfaces 55
- New Exchange 2007 Management Architecture 57
 - Understanding the Management Interface 57
 - Introducing the Exchange Management Console 59
 - The Toolbox Work Center 66





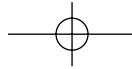
Defining Filters for the Exchange Management Console	67
Exchange Management Console Customization	68
Administration and Permissions	73
Administrative Groups and Exchange 2007	73
Assigning Administrative Permissions	74
Managing an Organization during a Migration	77
Managing Organization Properties	78
Servers and Permissions	79
Message Routing and Routing Groups	80
Recipients	80
Summary	82
Chapter 3 • Start Your Engines — Preparing for Migration	85
Getting Prerequisites Out of the Way	86
Active Directory and Exchange 2000/2003 Prerequisites	86
Predicting the Future	86
Defining Migration Goals and a Plan	87
Taking an Inventory of Relevant Factors	89
Exchange Features in Use	89
Clients and Protocols	90
Mail Routing and Message Hygiene	90
Active Directory	91
In-House and Third-Party Software	91
Disk Storage	92
Backup and Disaster Recovery Software	92
Existing Hardware	92
Introducing Somorita Surfboards	93
Migration Goals	94
Collecting Data	94
Things I Wish I Had Known	96
Summary	98
Chapter 4 • Installing Exchange Server 2007	101
Getting Started	101
References and Resources	102
Creating a Test Lab	103
Selecting Server Roles	103
Required Roles	104
Combining Roles	105
Choosing the Order in Which to Install Roles	106
Hardware Setup	106
Basics on Memory and Processor Requirements	107
Recommended Hardware Resources for Exchange 2007 Roles	108
Beginning the Setup Process	113
Graphical Installation	114



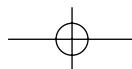
Command-Line Installation	119
Complete the Post-installation steps	125
Summary	126
Chapter 5 • Performing an Intra-Organization Migration	127
Upgrades vs. Migrations	127
Avoiding Headaches — Don't Deploy New Features During Migrations	128
No In-Place Upgrades	128
Exchange 5.5 Migrations	129
Considering Messaging Connectors	130
Legacy Exchange and Third Party Services	132
Testing the Migration Process	133
Setting Up a Realistic Test Lab	134
Building a Step-by-Step Procedure	136
Start Over — Testing the Procedure for Accuracy	138
Installing Exchange 2007 in an Existing Organization	138
Preparing Active Directory	138
Installing the First Exchange 2007 Servers	141
Installation Checklist	149
Client Access Server Role	149
Hub Transport Role	150
Mailbox Server Role	151
General Organizational Steps	151
Removing Exchange 2000/2003	151
Summary	153
Chapter 6 • Performing an Inter-Organization Migration	155
Determining the Right Approach	155
Choosing the Right Tools	156
Maintaining Interoperability	157
Light-Switch Migrations	157
Interoperability Factors	159
Preparing for Migration	159
Moving Mailboxes with Move-Mailbox	160
Migrating User Accounts	160
Permissions Required	160
Move-Mailbox Required Parameters	161
Move-Mailbox Optional Parameters	165
Importing Data from PST	166
Summary	167
Chapter 7 • Exchange Management Shell Primer	169
Command Syntax	170
Just in Case	170
Verbs and Nouns	170

Identity	170
Cmdlet vs. Command	173
PowerShell vs. Exchange Management Shell	173
Cmdlet Parameters	173
Tab Completion	174
Object Oriented	175
Filtering Output	175
Formatting Output	176
Directing Output to Other Cmdlets	178
Setting Variables	180
Getting Help	181
Summary	191
Chapter 8 • Accepting E-Mail and Generating E-Mail Addresses	193
Accepting SMTP Mail from Outside	193
How Does Internet E-Mail Find You?	193
Facing the Challenges of Accepting SMTP Mail	195
Accepted Domains	200
Generating E-Mail Addresses	203
Changing an Existing Policy	203
Creating a New E-Mail Address Policy	207
Converting Existing Recipient Polices for Use With Exchange 2007	211
Summary	212
Chapter 9 • Administering Recipients	215
Mailbox-Enabled Users	215
Basics of Mailbox-Enabled Users	217
Assigning a Mailbox to an Existing User Using the Exchange Management Console	219
Creating a New User and Assigning a Mailbox Using the Exchange Management Console	225
Managing User and Mailbox Properties	226
Moving Mailboxes	239
Deleting Mailboxes	242
Reconnecting a Deleted Mailbox	244
Managing Mail-Enabled Groups	247
Creating and Managing Mail-Enabled Groups	248
Creating Mail-Enabled Groups	248
Managing Mail-Enabled Groups	250
Creating Dynamic Distribution Groups	253
Managing Contacts	257
Managing Mail-Enabled Contacts	258
Creating Mail-Enabled Users	261
Managing Recipients Using the Exchange Management Shell	264
Recipient Management Cmdlets	265
Revealing the Secret Identity	266

Useful Recipient Management Properties	267
Managing Recipients with the Exchange Management Shell	280
Summary	288
Chapter 10 • Managing Resource Mailboxes	289
Resource Booking Basics	289
Creating a Resource Mailbox	290
Using the Exchange Management Console to Create a Resource Mailbox	290
Using the Exchange Management Shell to Create a Resource Mailbox	294
Configuring a Resource Booking Policy	300
Configuring a Resource Booking Policy Using Outlook Web Access	301
Configuring a Resource Booking Policy Using the Management Shell	306
Converting Existing Mailboxes	309
Summary	310
Chapter 11 • Managing Public Folders	311
Understanding Public Folder Support in Exchange 2007	311
Understanding Native Exchange 2007 Support	312
Missing Public Folder Features	312
Moving the Public Folder Hierarchy to Exchange 2007	313
Managing Public Folder Databases	314
Creating Public Folder Databases	314
Managing Public Folder Database Properties	318
Defining the Default Public Folder Server	322
Defining Public Folder Administrators	323
Managing Public Folder Properties	324
Using Outlook	324
Using the Exchange 2007 Public Folder Management Console	327
Public Folder Replication	331
Using the Public Folder DAV Administration Tool	332
Using the Exchange Management Shell	333
Summary	339
Chapter 12 • Sizing Storage Groups and Databases	341
Estimating Disk Space for Exchange Data	341
Estimating Mailbox Sizes	342
Estimating Maximum Storage	342
Planning for Mailbox Growth	344
Adding More Mailbox Storage	345
Maximum Database Sizes	345
Determining the Number of Storage Groups and Databases	346
Allocating Disk Drives	347
Creating and Moving Storage Groups	347
Creating and Managing Mailbox Databases	354
Summary	364



Chapter 13 • Implementing Recoverability Solutions	365
Getting Some Perspective on High Availability	365
Goals for Improving Availability	366
Reliability, Availability, and Resiliency	366
The Process Is Just as Important as the Technology	371
Understanding Your Options	371
A Folder by Any Other Name	374
Overview of CCR and SCC clusters	377
Is Clustering the Next Step?	377
Single Copy Clusters	379
Clustered Continuous Replication Clusters	380
Implementing and Managing LCR	382
Requirements for Local Continuous Replication	383
Configuring Local Continuous Replication	383
Managing Local Continuous Replication	386
Recovery Using Local Continuous Replication	393
Implementing and Managing Standby Continuous Replication	397
Standby Continuous Replication Basics	397
Replicating, Verifying, and Replaying Data	398
Deployment Scenarios	400
Enabling Standby Continuous Replication	400
Monitoring Standby Continuous Replication	403
Recovery Using an SCR Target	405
Summary	405
Chapter 14 • Daily and Weekly Management of Exchange Server 2007	407
Daily and Weekly Tasks	407
The Big Five	408
Unnecessary Tasks	408
Monitoring Queues	409
Exchange Diagnostics Logging	415
Using the Protocol Logs	418
Configuring Connectivity Logging	418
Configuring Send and Receive Logging	420
Using Message Tracking	424
Working with Message Tracking Logs	424
Tracking a Message	425
Performing Backups	429
Exchange Backup Types	429
Backup Frequency, Schedules, and Rotation	430
Using Windows Backup to Run Exchange Backups	431
Verifying Exchange Backups	435
Summary	438
Chapter 15 • Client Access Server Functions	439
Planning and Key Concepts	439
Software Version Required	439
Sizing	440



Positioning the Client Access Server in your LAN 440

 Client Access Server Proxying 441

 Client Redirection 444

 Interoperability with Exchange 2003 445

Services Provided by the Client Access Server 445

 Autodiscover 445

 The Availability Service 452

 Certificates 456

Client Types 463

 Outlook Anywhere (RPC over HTTP) 463

 Outlook Web Access 2007 466

 IMAP and POP3 474

Summary 486

Chapter 16 • E-Mail Routing 487

 Improvements in 2007 487

 How Internal E-Mail Routing Works 488

 Accepted and Remote Domains 490

 Send Connectors 492

 Receive Connectors 496

 Logging 498

 Message Tracking Tool 498

 Verbose Connectivity Logging 499

 Send and Receive Connector Logging 500

 Summary 502

Chapter 17 • Implementing Antispam Protection 503

 Antispam System Deployment Options 503

 Antispam Features 504

 IP Block and Allow Lists 505

 IP List Providers 506

 Sender ID 508

 Sender Reputation 508

 Sender and Recipient Filtering 509

 Content Filters 510

 Transport Rule Filters 514

 Configuring Antispam on an Edge Transport Server 517

 Configuring Antispam on a Hub Transport Server 522

 Installing Antispam Agents for Hub Transport Servers 524

 Educating Users to Reduce Spam 524

 Summary 525

Index 527

