

Table of Contents

Preface	1
Chapter 1: Content and Documentum	5
1.1 Need for an Effective CMS	7
1.2 Qualities of a Good CMS	8
1.3 Why Documentum?	10
1.4 Documentum Features	11
1.5 Summary	12
Chapter 2: Documentum Essentials	13
2.1 Documentum Cornerstone	13
2.2 Docbase	13
2.3 DocBroker	15
2.4 DocApp	16
2.5 Object Types	16
2.6 Attributes	18
2.6.1 Object ID (Object Identifier: r_object_id Attribute)	19
2.6.2 Attribute Types	19
2.7 DQL	21
2.8 API	22
2.9 Cabinets and Folders	23
2.10 Versioning	24
2.11 Lifecycles	25
2.12 Workflows	26
2.13 Summary	28
Chapter 3: Documentum Advanced Concepts	29
3.1 DMCL	29
3.2 DFC	29
3.3 BOF	30
3.4 WDK	31
3.5 Web Publisher	32
3.6 ACL	33

3.7 Alias Set	34
3.8 Users and Groups	36
3.8.1 Users	36
3.8.2 Groups	36
3.9 Renditions	37
3.10 Registered Tables	38
3.11 Data Dictionary	38
3.12 Methods and Jobs	39
3.12.1 Methods	39
3.12.2 Jobs	40
3.13 Summary	42
Chapter 4: Web Content Management System	43
4.1 When Should you Use a WCM System?	43
4.2 When Should you Not Use a WCM System?	44
4.3 Documentum WCM Architecture	45
4.4 How do you Enter Content in the System?	46
4.4.1 Web Publisher	46
4.5 Where and How is the Content Stored?	47
4.5.1 Content Server	47
4.6 How do you Perform System Administration?	48
4.6.1 Documentum Administrator	48
4.7 How do you Create Multiple Renditions of the Content?	50
4.7.1 Content Rendition Services	50
4.8 How do you Publish Content to a Website?	52
4.8.1 Site Caching Services	52
4.8.2 SCS Architecture	53
4.9 How do you Query the Published Content for Displaying on Websites?	54
4.9.1 Documentum JDBC Services	54
4.10 How do you Deploy Website Content to a Server Farm?	55
4.10.1 Site Deployment Services	55
4.11 Summary	56
Chapter 5: Setting Up the Documentum Suite	57
5.1 Installing Content Server	58
5.1.2 Prerequisites	59

5.2 Installing Content Server 5.2.5	60
5.3 Installing Content Server 5.2.5 SP2	64
5.4 Summary	66
Chapter 6: Creating Our First Docbase	67
6.1 Creating a Docbase	67
6.2 Installing Web Publisher Server Files and DocApp	75
6.2.1 What does Web Publisher Server Files Contain?	76
6.2.2 What does WebPublisher DocApp Contain?	76
6.3 Beginning Installation	76
6.4 Stopping and Starting Docbase and DocBroker	80
6.5 dmcl.ini	81
6.6 server.ini	81
6.7 Summary	82
Chapter 7: Setting Up Publishing	83
7.1 SCS Source 5.2.5	83
7.1.1 Prerequisites	84
7.1.2 Installing SCS Source 5.2.5	84
7.1.3 Installing SCS Source 5.2.5 SP2	88
7.2 SCS Target 5.2.5	89
7.2.1 Prerequisites	89
7.2.2 Installing SCS Target 5.2.5	89
7.2.3 Installing SCS Target 5.2.5 SP2	97
7.3 Summary	98
Chapter 8: Setting Up Documentum Application Builder	99
8.1 Documentum Application Builder	100
8.1.1 Prerequisites	101
8.2 Installing DAB 5.2.5 SP2	101
8.3 Summary	105
Chapter 9: Setting Up Documentum Administrator and Web Publisher	107
9.1 Documentum Administrator	107
9.1.1 Prerequisites	108
9.1.2 Installing Documentum Administrator 5.2.5 SP2	108

9.2 Web Publisher	113
9.2.1 Prerequisites	113
9.2.2 Installing Web Publisher 5.2.5 SP2	113
9.3 Summary	118
Chapter 10: Designing Documentum Applications	119
10.1 Case Study—Simple Newspaper Website	119
10.2 Beginning Documentum Design	121
10.3 Using Documentum Application Builder (DAB)	122
10.4 Creating Custom Objects in DocApp	123
10.5 Summary	124
Chapter 11: Designing and Creating Custom Object Types	125
11.1 Creating Object Types	126
11.1.1 Type Names	127
11.1.2 Limitations of Object Type Names	127
11.1.3 Supertype	128
11.2 Designing and Creating Custom Attributes of Object Type(s)	137
11.3 Adding Attributes to an Object Type	138
11.3.1 Attribute Names	139
11.3.2 Limitations of Object Type Attribute Names	139
11.3.2.1 Label	140
11.3.2.2 Data Type	140
11.3.2.3 Length	140
11.3.2.4 Repeating	140
11.3.2.5 Default Search Value	140
11.3.2.6 Allowable Search Operators	140
11.3.2.7 Input Mask	141
11.3.2.8 Conditional Value Assistance	145
11.4 Querying Registered Tables using DQL for Value Assistance	149
11.5 \$value() Keyword	153
11.6 Summary	155
Chapter 12: Creating Lifecycles, Alias Sets, and Permission Sets	157
12.1 Alias Sets in a Lifecycle	157
12.2 Creating an Alias Set	158
12.3 Creating Permission Sets	161
12.4 Creating a Custom Lifecycle	163
12.5 Promoting and Demoting Content through a Lifecycle	178

12.5 Expiring Content	183
12.6 Summary	185
Chapter 13: Working with Web Publisher Template Files	187
13.1 Creating a Template File	190
13.2 Summary	194
Chapter 14: Creating Rules Files	195
14.1 Creating a Rules File	195
14.1.1 IMGALTTEXT Element	205
14.1.2 DATE Element	205
14.1.3 BODYTEXT Element	206
14.1.4 REPEATBLOCK Element	206
14.1.5 NEXTLINKNAME Element	207
14.1.6 NEXTLINKURL Element	208
14.2 Final Template in Web Publisher Editor	208
14.3 Miscellaneous Rules File Widgets	210
14.3.1 Choice Widget	210
14.3.2 Checkbox Widget	210
14.3.3 Textselector Widget	210
14.3.4 Xselector Widget	211
14.4 Summary	212
Chapter 15: Creating Presentation Files	213
15.1 Creating a Presentation File	214
15.2 Viewing Content Renditions	220
15.3 Reapplying Presentation Files	221
15.4 Using XDQL in Stylesheets	222
15.5 XDQL Example in XSL Stylesheet	223
15.6 Create_Dynamic_Content Job	227
15.7 Summary	229
Chapter 16: Folder Mapping	231
16.1 Anatomy of the FolderMap.xml File	234
16.2 Limitations of Folder Map	234
16.3 Folder Mapping Examples	235
16.3.1 Property Matching: Using Wildcard (*)	235
16.3.2 Property Matching: Using Multiple Properties in <attr_list>	237
16.3.3 Placing a Content File in Multiple Locations with <path_list>	239
16.3.4 Property Matching: Simple Repeating Attribute	241

16.3.5 Property Matching: Repeating Attribute Index	244
16.3.6 Dynamic Folder Mapping	246
16.3.7 Dynamic Folder Mapping with Repeating Attribute	248
16.4 Summary	250
Chapter 17: Using Instruction Files	251
17.1 Limitations of Instruction Files	252
17.2 Instruction File Examples	253
17.2.1 Deleting an XML Element from an XML File with <delete-element>	253
17.2.2 Adding an XML Element to an XML File with <insert-element>	262
17.2.3 Updating the Value of an XML Element in an XML File with <update-element-value>	265
17.3 Summary	267
Chapter 18: Automatic Property Extraction (APE)	269
18.1 How Automatic Property Extraction Works	270
18.2 Simple Example for Automatic Property Extraction	271
18.3 Testing our First XML Application	277
18.4 Populating Repeating Attributes using Automatic Property Extraction	280
18.5 Testing the Second XML Application	282
18.6 Using Two-Way Attribute Extraction	285
18.7 Testing the Two-Way Attribute Extraction XML Application:	287
18.8 Summary	290
Chapter 19: Working with Workflows	291
19.1 Designing Custom Workflows	292
19.2 Setting Up a Custom Workflow Template	293
19.3 Creating a Custom Workflow Template	300
19.3.1 Performer Tab for Activities	312
19.3.2 Trigger Tab for Activities	312
19.3.3 Notification Tab for Activities	313
19.3.4 Transition Tab for Activities	313
19.4 Adding a Package to Connection Flows	314
19.5 Summary	315

Chapter 20: Testing Custom Workflows	317
20.1 Creating Users for Workflow in Documentum	318
20.2 Submitting Content to the Custom Workflow	319
20.3 Summary	326
Chapter 21: Publishing from Docbase Using SCS	327
21.1 Limitations of SCS	328
21.2 Publishing Types	328
21.3 Steps for Setting Up a Site Publishing Configuration	328
21.4 Testing and Publishing Using Site Publishing Configuration	339
21.5 Published Data	341
21.6 Unlocking Locked Publishing Operations	342
21.7 Monitoring the SCS Source Status	343
21.8 Summary	344
Chapter 22: Web Viewing Content Files	345
22.1 Prerequisites	346
22.2 Setting Up and Using Web View	347
22.3 Testing Web View	352
22.4 Summary	354
Chapter 23: Using DFC	355
23.1 Introduction to DFC	356
23.2 Environment Readiness	357
23.3 Simple Example Demonstrating DFC Usage	358
23.4 Creating and Linking a File in a Docbase Cabinet	359
23.5 Running Docbase Methods via DFC	362
23.6 Creating Users in Docbase with DFC	366
23.7 Summary	368
Chapter 24: Configurations and Customizations Using WDK	369
24.1 WDK Directory Structure	370
24.2 WDK Application Elements	372
24.3 A Simple WDK Configuration Example	373
24.3.1 New Content Screen before Configuration Changes	373
24.3.2 Modified New Content Screen after Configuration Changes	375

24.4 A Simple WDK Customization Example	379
24.5 Summary	395
Chapter 25: Documentum Deployment	397
25.1 DocApp Migration	399
25.2 Configuring DocApp Objects and Creating/Installing a DocApp Archive	399
25.3 Deployment of Web Publisher Code and Custom Scripts	410
25.4 Summary	414
Chapter 26: Using DQL and API Commands	415
26.1 DQL	416
26.1.1 Uses of DQL	416
26.1.2 Command Tools	416
26.1.3 DQL Examples	417
26.1.3.1 Creating a Document Object	417
26.1.3.2 Updating Attributes of a Document Object	418
26.1.3.3 Appending a Value in a Repeating Attribute	419
26.1.3.4 Inserting a Value into a Repeating Attribute	419
26.1.3.5 Associating a Document Object with a Cabinet	419
26.1.3.6 Retrieving a Document Object from the Docbase	421
26.1.3.7 Deleting a Document Object from the Docbase	423
26.2 API	423
26.2.1 Command Tools	423
26.2.2 API Commands	425
26.2.3 Categorizing API Methods	426
26.2.4 API Method Examples	427
26.2.4.1 Creating a Document Object	427
26.2.4.2 Setting the Attributes of the Object	428
26.2.4.3 Associating a Content File with the Document Object	429
26.2.4.4 Associating a Document Object with a Cabinet	429
26.2.4.5 Saving the Document Object in the Docbase	430
26.2.4.6 Obtaining a Reference to the Document Object in Docbase	431
26.2.4.7 Setting Specific Attribute Information	432
26.2.4.8 Viewing all Attributes and Values for an Object	432
26.2.4.9 Deleting an Object from the Docbase	434
26.3 Summary	434

Appendix A: Frequently Asked Questions and Answers	435
Appendix B: New Features and Enhancements in Release 5.3	449
B.1 Content Server Changes	449
B.2 Object Types Changes	452
B.3 API and DQL Changes	452
B.4 DFC Changes	452
B.5 BOF Changes	453
B.6 Application Builder and Application Installer Changes	453
B.7 WDK Changes	454
B.8 Documentum Administrator Changes	454
B.9 Web Publisher Changes	455
Index	457
