

Sun Java CAPS Basics

Implementing Common EAI Patterns

Part I

Patterns Review and Application and Specialised Java CAPS Topics

Michael Czapski
with
Sebastian Krueger
Brendan Marry
Saurabh Sahai
Peter Vaneris
Andrew Walker

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Table of Contents

Preface	1
Acknowledgments	1
How this book is organised	3
About Examples	4
Conventions	4
List of Illustrations and Examples	7
1 Enterprise Integration Styles	12
1.1 Chapter Content	12
1.2 File Transfer	12
1.3 Database Sharing	13
1.4 Remote Procedure Invocation	14
1.5 Messaging	15
1.6 Service Orchestration	16
1.7 Centralised versus Distributed	17
1.8 Chapter Summary	20
2 Java CAPS Architecture	21
2.1 Chapter Content	21
2.2 Historical Note	21
2.3 Context	22
2.4 Java CAPS Architecture	24
2.5 Solution Development Stages	27
2.6 Chapter Summary	30
3 Project Structure and Deployment	31
3.1 Chapter Contents	31
3.2 From Logical Solution to Physical Deployment	32
3.3 Project Structure Considerations	32
3.3.1 Connectivity Map and Deployment Profile	34
3.3.2 Variables and Constants	38
3.4 Backup of Development Artefacts	42
3.5 Release Management	45
3.5.1 Using Java CAPS Source Control System	45
3.5.2 Using a Third Party Source Control System	50
3.5.2.1 Migration and Rollback process	51
3.6 Deployment Architectures	55
3.6.1 Small Deployment	55
3.6.2 Medium to Large Deployment	56
3.7 Command line build and deployment	58
3.8 Chapter Summary	60
4 Message Exchange Patterns	62
4.1 Chapter Contents	62
4.2 Document Message	63
4.3 Command Message	63
4.4 Event Message	64
4.5 Request/Reply	66
4.5.1 JMS Request/Reply	67

4.5.2	HTTP Request/Reply	75
4.5.3	eInsight Subprocess	76
4.5.4	SOAP Request/Reply	76
4.5.5	Web Services Implementation	77
4.5.6	Request/Reply Summary	78
4.6	Return Address	78
4.7	Correlation	79
4.8	Message Sequence	79
4.8.1	JMS Serial Mode Concurrency	81
4.8.2	Sun SeeBeyond JMS Message Server FIFO Modes ...	81
4.8.3	Serialising Business Processes via JMS and XA.....	83
4.9	Message Expiration	84
4.10	Format Indicator	87
4.11	Data Streaming	89
4.11.1	Batch eWay Streaming	89
4.11.2	eTL Streaming	91
4.12	Message Security	91
4.13	Chapter Summary	92
5	Messaging Infrastructure	93
5.1	Chapter Contents	93
5.2	Java Message Service (JMS)	95
5.3	JMS Implementation Interoperability.....	96
5.4	Using JMS to integrate non-Java environments	96
5.5	Queues vs. Topics	97
5.6	Sun SeeBeyond IQ Manager.....	98
5.6.1	JMS Destination Creation and Destruction	98
5.6.2	Temporary JMS Destinations	99
5.6.3	Security	99
5.6.4	Transactionality	100
5.6.5	Concurrency	104
5.6.6	Persistence	105
5.6.7	Selectors	106
5.6.7.1	Static Selector	107
5.6.7.2	Dynamic Selector.....	109
5.6.8	FIFO Modes	113
5.6.9	Throttling.....	113
5.6.10	Redelivery Handling	115
5.6.11	Message Journaling	115
5.7	Resilient JMS with JMS Grid	117
5.8	Competing Consumers	124
5.8.1	eGate and Java Collaborations.....	124
5.8.2	eInsight Business Processes	126
5.9	Point-to-Point Channel	128
5.10	Publish-Subscribe Channel.....	128
5.11	Datatype Channel.....	128
5.11.1	JMS Message Body Formats.....	128
5.11.2	Endpoint-dependent Datatypes.....	129

5.11.3	Multiple Datatypes in Java Collaborations.....	130
5.11.4	Multiple Datatypes in Business Processes.....	131
5.12	Invalid Message Channel	132
5.13	Dead Letter Channel	132
5.13.1	Java CAPS releases prior to 5.1.2.....	133
5.13.2	Java CAPS release 5.1.2	135
5.13.3	Documentation Note.....	136
5.14	Guaranteed Delivery	136
5.14.1	Is Guaranteed Delivery always required.....	136
5.14.2	Java CAPS facilities for Guaranteed Delivery.....	137
5.14.3	Persistence Notes.....	138
5.14.4	JMS-based Guaranteed Delivery.....	139
5.14.4.1	Message Expiry	139
5.14.4.2	Transacted Sessions	139
5.14.4.3	Persistent Delivery Mode	140
5.14.5	eInsight Guaranteed Delivery	141
5.14.5.1	eInsight XA Transactionality	141
5.14.5.2	eInsight Persistence.....	142
5.14.6	Solution-specific Guaranteed Delivery.....	144
5.14.7	Summary.....	144
5.15	Channel Adapter.....	145
5.16	Messaging Bridge	146
5.16.1	Bridging independent Java CAPS solutions	147
5.16.2	Bridging other JMS Messaging Implementations....	151
5.16.3	Other Bridging Solutions	151
5.17	Message Bus.....	152
5.18	Chapter Summary	153
6	Message Routing.....	154
6.1	Chapter Contents	154
6.2	Introduction.....	154
6.3	Fixed Router	156
6.4	Content-based Router	157
6.5	Message Filter.....	160
6.6	Recipient List	161
6.7	Splitter.....	162
6.8	Aggregator	164
6.9	Resequencer	165
6.10	Composed Message Processor.....	167
6.11	Scatter-Gather	167
6.12	Routing Slip	167
6.13	Process Manager	168
6.14	Message Broker.....	169
6.15	Chapter Summary	170
7	Message Construction.....	171
7.1	Chapter Contents	171
7.2	Message.....	171
7.3	Object Type Definitions	172

7.3.1	Generating Oracle Table OTD	173
7.3.2	Other OTD Wizards	179
7.4	Envelope Wrapper	180
7.4.1	Delimited Envelope Wrapper	181
7.4.2	Enveloping XML within XML	184
7.4.3	JMS User Properties Envelope Wrappers	190
7.5	Chapter Summary	191
8	Message Transformation	192
8.1	Chapter Contents	192
8.2	Envelope Wrapper	192
8.3	Content Enricher	192
8.4	Content Filter	193
8.5	Claim Check	193
8.6	Normalizer	195
8.7	Canonical Data Model	195
8.8	Chapter Summary	196
9	Messaging Endpoints	197
9.1	Chapter Contents	197
9.2	Messaging Gateway	197
9.3	Transactional Client	199
9.4	Polling Consumer	199
9.4.1	Polling File System	199
9.4.1.1	Other Batch Pollers	202
9.4.2	Polling JMS Destination	202
9.5	Event-Driven Consumer	204
9.6	Competing Consumers	204
9.7	Message Dispatcher	205
9.8	Selective Consumer	206
9.9	Durable Subscriber	206
9.10	Idempotent Receiver	207
9.11	Service Activator	211
9.12	Chapter Summary	212
10	System Management	213
10.1	Chapter Contents	213
10.2	Java CAPS Monitoring and Management	213
10.2.1	Overview	213
10.2.2	Monitoring eGate-based solutions	214
10.2.3	Monitoring eInsight-based solutions	219
10.2.4	JMS Administration Tools	221
10.2.4.1	Sun SeeBeyond JMS IQ Manager	221
10.2.5	Event Notification with Alert Agent	229
10.2.5.1	Configuring Alert Agent	229
10.2.5.2	Summary	239
10.2.6	SNMP Agent	239
10.2.6.1	SNMP Agent Configuration	241
10.2.6.2	SNMP Agent Traps	242
10.2.6.3	SNMP Agent Listener	243

10.2.6.4	SNMP Agent Security Configuration	244
10.2.6.5	SNMP Agent Configuration Files.....	244
10.2.6.6	SNMP Agent Debug Logging.....	245
10.2.7	Enterprise Manager Command Line Tool	245
10.2.8	Enterprise Manager Web Service API	248
10.2.8.1	Service Manager Service	249
10.2.8.2	Login Service	250
10.2.8.3	Runtime Service	251
10.2.8.4	Alert Service.....	255
10.2.9	Java Management Extensions (JMX)	266
10.2.9.1	Java CAPS JMX Console Web Application	266
10.2.9.2	J2SDK 1.5 JConsole	272
10.2.9.3	MC4J JMX Console	276
10.2.9.4	Programmatic Management	277
10.2.10	Instrumenting Performance Data Collection.....	281
10.2.10.1	JMS Latency.....	281
10.2.10.2	Instrumenting collection of runtime data	283
10.2.11	Summary.....	285
10.3	Solution-specific Management.....	286
10.3.1	Overview	286
10.3.2	Control Bus	286
10.3.3	Detour.....	287
10.3.4	Wire Tap.....	288
10.3.5	Message [Route] History	290
10.3.6	Message Store.....	293
10.3.7	Test Message	295
10.3.8	Channel Purger.....	296
10.4	Chapter Summary	298
11	Message Correlation	301
11.1	Chapter Contents	301
11.2	Introduction.....	302
11.3	JMSCorrelationID.....	303
11.4	eInsight Correlations.....	304
11.5	eInsight Correlation Processor – First Cut	304
11.6	Correlation Identifier.....	309
11.7	eInsight Correlation Processor – Second Cut	310
11.8	Derived Correlation Identifiers	315
11.9	Derived Correlation Identifiers - Alternative	319
11.10	Message Relationship Patterns	322
11.10.1	Header-Items-Trailer Correlation	322
11.10.2	Any Order Two Items Correlation	324
11.10.3	Any Order Two Items Correlation with Timeout.....	325
11.10.4	Items-Trailer Correlation.....	325
11.10.5	Header Counted Items Correlation	327
11.10.6	Counted and Timed Items Correlation.....	328
11.10.7	Timed Items Correlation	329
11.10.8	Scatter Gather Correlation	329

11.10.9	Message Relationship Patterns Summary	330
11.11	eGate Correlation with Dynamic Selectors	331
11.11.1	Items-Trailer Correlation.....	332
11.12	Chapter Summary	334
12	Reusability	336
12.1	Chapter Contents	336
12.2	Using JMS Request/Reply	336
12.3	Using "New Web Service" Collaborations	337
12.4	Using eInsight Subprocesses for Reusability	338
12.4.1	Request/Response Subprocess	340
12.4.2	OneWayOperation Subprocess.....	341
12.4.3	Notification Subprocess	342
12.5	Using eInsight Web Services for Reusability	343
12.5.1	Request/Response Web Service	343
12.5.2	OneWayOperation Web Service.....	346
12.5.3	Notification Web Service	346
12.6	eInsight Service Process Reusability Note	346
12.7	Chapter Summary	347
13	Scalability and Resilience	348
13.1	Chapter Contents	348
13.2	Distributing Components	349
13.2.1	eGate Component Distribution	349
13.2.2	eInsight Component Distribution.....	351
13.3	Exception Handling	352
13.3.1	Exceptions in Java Collaborations.....	353
13.3.1.1	JMS-triggered Java Collaborations	353
13.3.1.2	Other Java Collaborations.....	354
13.3.2	Faults in Business Processes.....	355
13.3.2.1	JMS-triggered Business Processes	355
13.3.2.2	Fault Handlers.....	356
13.3.3	Higher-level Exception Handling.....	358
13.4	Compensation	358
13.5	High Availability Architecture	360
13.5.1	Introduction	360
13.5.2	Java CAPS Platform Components	361
13.5.2.1	Repository	361
13.5.2.2	Enterprise Manager	361
13.5.2.3	UDDI Registry	361
13.5.2.4	Integration Server.....	362
13.5.2.5	Sun SeeBeyond JMS IQ Manager	363
13.5.2.6	Sun JMS Grid	363
13.5.3	Application Connectivity	366
13.5.3.1	Intra-Site Failover	367
13.5.4	Inter-Site Failover Architecture	368
13.5.4.1	Queue Failover Options	369
13.5.4.2	Queue Manager Disk-based Replication	370
13.5.5	Summary.....	370

13.6	Chapter Summary	371
14	Security Features	373
14.1	Chapter Contents	373
14.2	HTTP Proxy Server Configuration	373
14.3	HTTP Basic Authentication	375
14.4	Secure Sockets Layer (SSL, TLS).....	379
14.4.1	HTTP eWay Client and Server projects.....	382
14.4.1.1	HTTP Server/Responder	382
14.4.1.2	HTTP Listener Port Assignments	383
14.4.2	HTTP eWay Clear Text Channel.....	383
14.4.2.1	Configuring the Server	383
14.4.3	HTTP eWay Server-side Authentication	383
14.4.3.1	Configuring the Server	383
14.4.3.2	Configuring the Client	385
14.4.4	HTTP eWay Mutual Authentication.....	386
14.4.4.1	Configuring the Server	386
14.4.4.2	Configuring the Client	388
14.4.4.3	Exercising the Channel.....	389
14.4.5	SSL in Java CAPS HTTP eWay Use Notes.....	389
14.4.6	Strong Cipher Suites	390
14.4.7	Web Services and SSL.....	391
14.4.7.1	Server-Side Authentication Channel.....	392
14.4.7.2	Mutual Authentication Channel.....	392
14.4.7.3	SSL in Java CAPS Web Services Notes.....	393
14.5	'Secure' Batch FTP variants.....	394
14.6	Chapter Summary	396
15	Bibliography	397

Preface

In their book "Enterprise Integration Patterns : Designing, Building, and Deploying Messaging Solutions" [EIP] Gregor Hohpe and Bobby Woolf elaborate on the subject of Enterprise Application Integration using Messaging. They present, discuss, and illustrate over sixty EAI design patterns. These patterns, they believe, are key patterns most designers of EAI solutions will use when building enterprise integration solutions. Most examples in [EIP] use raw C# and raw Java to illustrate details of EAI patterns under discussion. Most of these patterns can be implemented succinctly, elegantly and comprehensively using tools and technologies provided in the Sun Java Composite Application Platform Suite [Java CAPS].

This book is about implementing selected enterprise integration patterns, discussed in [EIP], using Java CAPS as means to building practical enterprise integration solutions. It bridges the gap between the somewhat abstract pattern language and the practical implementation details. It is designed for integration architects, solution architects and developers who wish to quickly implement enterprise solutions with Java CAPS. It discusses how EIP patterns can be implemented quickly and efficiently by leveraging the Java CAPS tools and the authors' field experience.

Whilst this book discusses Java CAPS implementation of [EIP] patterns it does not discuss the patterns in depth. It is assumed that the reader is already familiar with the subject and needs to apply the theoretical knowledge using Java CAPS.

This book is also about basics of the essential Java CAPS Suite components, on the premise that one cannot apply patterns if one is not able to effectively use the tools with which to do it. Since the complete Java CAPS offering has so many components, including ones that are not essential to integration, this book only elaborates on the basic integration tools – eGate, eInsight, eWays and JMS.

This book is also about providing readers with additional information they may need to effectively use Java CAPS. Considerable amount of Java CAPS-related material, provided in the text, is not published anywhere else.

The companion book, Java CAPS Basics – Implementing Common EAI Patterns, Part II – Illustrations, provides over 60 detailed examples that illustrate concepts and patterns under discussion. Some examples are high-level, illustrating specific points. Other examples follow a step-by-step approach.

Java CAPS projects that are discussed and developed as examples are available for import and perusal.

A VMware image, containing a pre-configured Ubuntu Linux-based Java CAPS 5.1.3 installation, with all projects imported and all deployment profiles created, may also be available. This depends on demand.

