

Table of Content

Table of Content	i
Copyright.....	vi
Copyright ©2002 by Sams Publishing	vi
Trademarks	vi
Warning and Disclaimer	vi
Credits.....	vi
Dedication	vii
About the Author.....	viii
Acknowledgments	viii
Lutris Technologies.....	ix
Tell Us What You Think!.....	x
Introduction.....	xi
Enhydra	xi
Who Should Read This Book.....	xi
Lutris Technologies, Steward of Enhydra.org.....	xii
Servlet Programming.....	xiii
Organization.....	xiii
About OtterPod Productions.....	xiv
Conventions and Tools	xv
Enhydra 3 Versus Lutris EAS 4	xv
Downloads.....	xv
The Book's CD.....	xvi
Chapter 1. Enhydra and XMLC	1
A Taste of Enhydra XMLC	1
Modern Three-Tier Application Design.....	4
A Fortuitous Decision: Going with XML (Eventually)	5
Enhydra Java/XML Application Server	7
Enhydra.org, the Open Source Project.....	9
Open Source Delivers Wireless.....	12
Summary	12
Chapter 2. XMLC Development	13
Taking Control from HTML	13
Development Flow with XMLC	14
The Document Object Model.....	20
Resuming <code>xmlc</code> and the Development Phase	27
Loosely Coupled Development.....	29
XMLC for Servlet Programming.....	31
Internationalization.....	31
Device Independence in an XML World	32
XMLC Benefits.....	33
Summary	34
Chapter 3. Presentation Technologies.....	35
Publishing Frameworks for Adapting to the Future.....	35
Model-View-Controller.....	37
Servlet Presentation Programming	39
JavaServer Pages.....	40
JSP Taglibs	43
Cascading Stylesheets.....	46
XSLT	48
Cocoon.....	52
Final Comparative Discussion.....	53
Templates, MVC, and XMLC.....	57

Summary	59
Chapter 4. The ShowFloor ASP Application	60
Building a Device-Independent Application	61
The ShowFloor Application.....	63
Essential UML.....	65
Modeling the ShowFloor Application.....	67
Summary	73
Chapter 5. Enhydra, Java/XML Application Server.....	74
Enhydra and J2EE	75
Enhydra Application Framework Genesis	75
The Package Tour	77
Development, Runtime, and Deployment	80
Enhydra Multiserver.....	82
Building and Running ShowFloor	84
Enhydra Multiserver.....	92
Configuration Files	94
Administration Console	98
Enhydra Director	99
The Enhydra Application Framework.....	100
Enhydra Services and the EAF Runtime.....	103
Enhydra DODS.....	108
Debugging an Enhydra Application.....	112
Deploying Enhydra Applications	114
Summary	115
Chapter 6. XMLC Basics	116
HTML in an XML World.....	116
Selected XML Basics.....	120
Selected HTML Basics	122
Selected DOM Topics	124
XMLC Features and Functions	129
Working with Templates.....	135
How XMLC Constructs a DOM Class	136
Enhancing Performance with LazyDOM	138
Summary	139
Chapter 7. The <code>xmlc</code> Command.....	141
Syntax and Formats.....	141
The <code>options.xmlc</code> Format.....	142
<code>xmlc</code> Command Options	143
Some Runtime Options	150
Auto-Recompilation and Auto-Class Loading.....	152
Server-Side Includes	156
XMLC Metadata	157
Building with Enhydra <code>make</code> Files.....	159
Summary	160
Chapter 8. HTML Presentations.....	161
Leveraging HTML DOM Implementation.....	162
Preparing for Examples.....	163
Common DOM Operations	165
Cloning and Templates	167
Different Strokes.....	172
Building Tables	174
Working with Stylesheets.....	182
Working with Forms and Controls	184
Working with JavaScript.....	203

Generating Output	204
XHTML.....	206
Summary	208
Chapter 9. Presentation Strategies	209
A Presentation Architecture.....	209
Assembling Composite Views.....	214
Interface-Implementations for ASPs and Skins.....	222
Internationalization.....	226
Integrating Data Binding with XMLC	229
Summary	233
Chapter 10. Servlet Web Applications	234
Servlets and Web Applications	234
Portable Enhydra XMLC	236
Building Web Application Servlets with Enhydra 3	239
Constructing the VendorCategory XMLC Servlet.....	243
Deploying XMLC WARs on Lutris EAS 4	247
Ant, the Java/XML Alternative to make.....	250
Deploying an XMLC WAR on BEA WebLogic.....	252
Summary	257
Chapter 11. Wireless Markup Presentations.....	258
Wireless Domains	258
Perusing the WML Language.....	260
The WML Development Environment, Kinks and All.....	263
WML Template Generation with <code>xmlc</code>	265
Device Detection	266
The mySFA Vendor Notes Application	267
VoiceXML	271
Summary	276
Chapter 12. Client-Server Development with J2ME and Flash.....	278
Java 2 Micro Edition	278
XML for J2ME Client/Server Communication.....	280
Enhydra kXML	281
The ShowFloor Admin Application	282
Building a J2ME Application.....	287
Flash.....	288
Dynamic Graphics with SVG and XMLC	290
Summary	296
Chapter 13. Barracuda Presentation Framework.....	297
XMLC: Where the Value Is	297
A Presentation Framework for XMLC	298
A Collection of Capabilities	300
Example: VendorSpotlight	305
Directives.....	311
Localization	313
Summary	316
Appendix A. XMLC Command Line Options	318
<code>xmlc</code> Command Options	318
Appendix B. XMLC Metadata	354
<code><compileOptions/></code> Elements.....	354
<code><inputDocument></code> Elements.....	355
<code><parser></code> Elements	356
<code><html></code> Elements	356
DOM Editing Elements.....	358
<code><documentClass></code> Elements.....	359

<javaCompiler> Elements	361
Appendix C. The XMLObjectImpl Class.....	363
Methods	363
Appendix D. The Base Presentation Object.....	377
The Base Presentation Object	377
Appendix E. References.....	384