

Contents

Foreword	Leveraging the iSeries with XML	ix
Chapter 1:	XML: Where Did It Come From? Where Is It Going?	1
	Defining XML	2
	Building Perspective: The History of XML	10
	Setting Standards	13
	Transform and Style with XSL	15
	Tools of the Trade	16
	iSeries XML Solutions	18
Chapter 2:	XML Basics	21
	Creating XML Documents	22
	Viewing XML Documents	33
Chapter 3:	The Basics of DTDs	41
	Validating XML Documents	42
Chapter 4:	XML Schemas	71
	What Is a Schema?	72
	Schema History	73
	Schemas vs. DTDs	76
	Why Use Schemas?	79
	When to Use a Schema	80
	Components of a Schema	81
	Data Types	89
	Best Practices	98
	Wrap-up	98
Chapter 5:	Programming with XML	99
	Parsers	100
	Types of Parsers	101
	XML Tools for iSeries	131

	XForms	133
	When to Develop.	135
	Conclusion.	136
Chapter 6:	What’s in a Namespace?	139
	Providing a Unique Identity	140
Chapter 7:	XML’s Linking Languages	153
	Rethinking Linking	154
	Providing a Path with XPath.	155
	Building Links with XLink.	173
	Giving Pointers with XPointer	178
	Chapter Highlights	183
Chapter 8:	Applying Style to XML: XSL.	185
	Introducing XSL	186
	The XSL Originators.	187
	XSLT and XSL-FO: What’s the Difference?	188
	When Do I Use XSLT and XSL-FO?	189
	Why Use XSL?	190
	How Does It Work?	191
	Basic XSLT Components	197
	Basic XSL-FO Concepts	204
	XPath Functionality.	206
	Transforming XML Documents	206
	Conclusion.	208
Chapter 9:	XML Security	211
	Vulnerabilities Associated with XML Technologies.	212
	The Importance of Security.	213
	What is XML Security?.	213
	Core XML Security Standards	215
	Confidentiality with XML Encryption	218
	XML Key Management Specification (XKMS).	222
	Security Assertion Markup Language (SAML)	225
	XML Access Control Markup Language (XACML)	227

Platform for Privacy Preferences (P3P)	231
Extensible rights Markup Language (XrML) 2.0	233
In Conclusion	236
Chapter 10: Web Services	239
What are Web Services?	240
Why Use Web Services?	241
How Web Services Work.	242
How Do Web Services Differ from Other Technologies?	245
Communicating with a Web Service.	245
Components of a SOAP Message	249
Describing Web Services.	250
Finding Web Services	259
Web Services and the iSeries	264
The Future of Web Services	266
Chapter 11: Beyond the Web	269
The “XML” in Architecture	270
Conclusion.	297
Chapter 12: XML References	299
IBM	299
W3C.	300
OASIS	300
SAX.	301
The Apache Software Foundation.	301
Microsoft	302
Conclusion.	303