

Mastering the requirements process



Suzanne and James Robertson



ADDISON-WESLEY

HARLOW, ENGLAND • READING, MASSACHUSETTS • MENLO PARK, CALIFORNIA

NEW YORK • DON MILLS, ONTARIO • AMSTERDAM • BONN • SYDNEY • SINGAPORE

TOKYO • MADRID • SAN JUAN • MILAN • MEXICO CITY • SEOUL • TAIPEI

Contents

Acknowledgments	page x
Foreword	xi
1 What Are Requirements?	1
<i>Requirements and systems analysis – how they fit together. We introduce the specification template and the requirements shell, and tell you where this book will take you.</i>	
2 The Requirements Process	10
<i>An overview of the Volere process. We take you through the process from the blastoff – where the project is prepared – to the delivery of the requirements specification.</i>	
3 Project Blastoff	24
<i>Getting the project underway – what you need to get your requirements project off to a successful and effective start.</i>	
4 Event-driven Use Cases	51
<i>How to determine suitable partitions for the product – using business events as the starting point – and how to determine the best product to build.</i>	
5 Trawling for Requirements	79
<i>How to gather the requirements. We look at techniques for discovering, eliciting and inventing requirements.</i>	
6 Functional Requirements	104
<i>Functional requirements are things the products must do. Here we look at discovering and specifying the product's functionality.</i>	

7	Non-functional Requirements	112
	<i>Non-functional requirements are the properties that the product must have. Here we describe how to discover and specify them.</i>	
8	Writing the Specification	137
	<i>How to set all this down in a requirements specification.</i>	
9	Fit Criteria	165
	<i>To overcome ambiguity, we introduce measurements for requirements. This makes the requirements testable so that you can know that the implementation matches the requirement.</i>	
10	Quality Gateway	181
	<i>A device for preventing rogue requirements from becoming part of the specification.</i>	
11	Prototyping and Scenarios	201
	<i>How to bring the requirements to life and discover forgotten and undreamed of requirements.</i>	
12	Reusing Requirements	218
	<i>Products are rarely completely unique. We show you how to take advantage of requirements that have already been written.</i>	
13	Taking Stock of the Specification	235
	<i>A complete review of what you have written, together with the opportunity to remeasure and reevaluate the requirements.</i>	
14	Whither Requirements?	257
	<i>What happens after the requirements are written? We look at requirements tools, publishing the specification, traceability, change and managing the requirements.</i>	
	Appendix A Volere Requirements Process Model	277
	<i>A complete model of the requirements process.</i>	
	Appendix B Volere Requirements Specification Template	353
	<i>A template for writing a requirements specification which can become the foundation of your requirements documents.</i>	

Glossary	392
Bibliography	394
Index	398

Trademark Notice

Adobe Photoshop is a registered trademark of Adobe Systems Incorporated.
Microsoft Excel and Microsoft Word are trademarks of Microsoft Corporation.
UNIX is a registered trademark, licensed through X/Open Company Ltd.
(collaboration of Novell, HP & SCO).