

Advanced .NET Remoting, Second Edition

INGO RAMMER AND MARIO SZPUSZTA

Apress®

Advanced .NET Remoting, Second Edition

Copyright © 2005 by Ingo Rammer and Mario Szpuszta

All rights reserved. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage or retrieval system, without the prior written permission of the copyright owner and the publisher.

ISBN (pbk): 1-59059-417-7

Printed and bound in the United States of America 9 8 7 6 5 4 3 2 1

Trademarked names may appear in this book. Rather than use a trademark symbol with every occurrence of a trademarked name, we use the names only in an editorial fashion and to the benefit of the trademark owner, with no intention of infringement of the trademark.

Lead Editor: Ewan Buckingham

Technical Reviewer: Kent Sharkey

Editorial Board: Steve Anglin, Dan Appleman, Ewan Buckingham, Gary Cornell, Tony Davis, Jason Gilmore, Jonathan Hassell, Chris Mills, Dominic Shakeshaft, Jim Sumser

Project Manager: Laura E. Brown

Copy Manager: Nicole LeClerc

Copy Editor: Ami Knox

Production Manager: Kari Brooks-Copony

Production Editor: Ellie Fountain

Compositor: Kinetic Publishing Services, LLC

Proofreader: Elizabeth Berry

Indexer: John Collin

Artist: Kinetic Publishing Services, LLC

Cover Designer: Kurt Krames

Manufacturing Manager: Tom Debolski

Distributed to the book trade in the United States by Springer-Verlag New York, Inc., 233 Spring Street, 6th Floor, New York, NY 10013, and outside the United States by Springer-Verlag GmbH & Co. KG, Tiergartenstr. 17, 69112 Heidelberg, Germany.

In the United States: phone 1-800-SPRINGER, fax 201-348-4505, e-mail orders@springer-ny.com, or visit <http://www.springer-ny.com>. Outside the United States: fax +49 6221 345229, e-mail orders@springer.de, or visit <http://www.springer.de>.

For information on translations, please contact Apress directly at 2560 Ninth Street, Suite 219, Berkeley, CA 94710. Phone 510-549-5930, fax 510-549-5939, e-mail info@apress.com, or visit <http://www.apress.com>.

The information in this book is distributed on an “as is” basis, without warranty. Although every precaution has been taken in the preparation of this work, neither the author(s) nor Apress shall have any liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the information contained in this work.

The source code for this book is available to readers at <http://www.apress.com> in the Downloads section.

Contents at a Glance

About the Authors	xvii
About the Technical Reviewer	xix
Acknowledgments	xxi
Introduction	xxiii

PART 1 ■ ■ ■ Understanding

CHAPTER 1	Introduction to Remoting	3
CHAPTER 2	.NET Remoting Basics	9
CHAPTER 3	.NET Remoting in Action	25
CHAPTER 4	Configuration and Deployment	75
CHAPTER 5	Securing .NET Remoting	123
CHAPTER 6	Creating Remoting Clients	161
CHAPTER 7	In-Depth .NET Remoting	185
CHAPTER 8	The Ins and Outs of Versioning	225
CHAPTER 9	.NET Remoting Tips and Best Practices	275
CHAPTER 10	Troubleshooting .NET Remoting	303

PART 2 ■ ■ ■ Extending

CHAPTER 11	Inside the Framework	321
CHAPTER 12	Creation of Sinks	349
CHAPTER 13	Extending .NET Remoting	359
CHAPTER 14	Developing a Transport Channel	421
CHAPTER 15	Context Matters	469

PART 3 ■ ■ ■ Reference

APPENDIX A	.NET Remoting Usage Reference	487
APPENDIX B	.NET Remoting Extensibility Reference	525
APPENDIX C	.NET Remoting Links	541
INDEX	549