



# Financial Services Technology: Processes, Architecture, and Solutions

By Randall E. Duran

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## Financial Services Technology: Processes, Architecture, and Solutions By Randall E. Duran

Financial Services Technology reviews key financial services business areas, technologies, and trends, providing a primer for students and a reference for industry professionals. It covers current trends and emerging concerns in financial services industry, including cloud computing, big data, business process management, microfinance, mobile banking, algorithmic trading, and ongoing regulatory changes. In addition, it reviews how financial services processes and practices vary between North America, Asia, and Europe.

This book aggregates and condenses a broad range of information related to financial services technology and business applications that, until now, has not been available in a single text or information source. It is composed of four major sections: 1) foundations, which provides an overview of how information technology (IT) solutions are implemented in financial institutions; 2) banking technology, which describes the business context and technologies that support retail and commercial banking functions; 3) financial markets technology, which explains the business context and technologies used for the trading equities, derivatives, and foreign exchange products; and 4) cross-functional considerations, which examines technology and solution considerations that span across multiple banking and financial market business areas.

### KEY FEATURES

A primer for banking students and a reference for industry professionals  
Reviews key financial services business areas, technologies, and practices, and the differences between North America, Asia, and Europe  
Analyzes current trends and concerns, such as cloud computing, big data, and ongoing regulatory changes  
Contains over 70 case studies and 100-plus diagrams

### TABLE OF CONTENTS

About the Author. Foreword. Preface.

Acknowledgements. Chapter 1 Introduction. PART 1 Foundations. Chapter 2 Business Process Management. Chapter 3 Solution Architecture. Chapter 4 Technology Solution Delivery. PART 2 Banking Technology. Chapter 5 Banking Contexts. Chapter 6 Deposits and Lending. Chapter 7 Cash Management and Payments. Chapter 8 Trade Services and Finance. Chapter 9 Treasury and

Foreign Exchange. Chapter 10 Treasury Derivatives. PART 3 Financial Markets Technology. Chapter 11 Capital Markets Contexts. Chapter 12 Exchanges and Execution Venues. Chapter 13 Financial Market Intermediaries. PART 4 Cross-functional Considerations. Chapter 14 Channels and Customer Relationship Management. Chapter 15 Security and Control Systems. Chapter 16 Risk anagement.Chapter 17 Improving Financial Services. Glossary. Index.

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- Sales Rank: #1337941 in Books

- Published on: 2012-09-12
- Dimensions: 10.00" h x .67" w x 8.03" l, 1.91 pounds
- Binding: Paperback
- 472 pages

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#### **About the Author**

**Randall E. Duran** is the Chief Executive Officer of Catena Technologies Pte Ltd, a consulting firm that designs and implements banking and financial markets technology solutions. Randall is also an adjunct professor at the Singapore Management University teaching graduate courses on banking solutions and architecture. Over the past 20 years, Randall has worked with financial institutions in the United States, Europe, Asia, Australia, and Africa. Prior to founding Catena Technologies, he led solution consulting at TIBCO Finance Technology Inc and Reuters PLC. Randall was awarded B.S. and M.S. degrees in computer science by the Massachusetts Institute of Technology.

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