Application Integration. EAI B2B BPM and SOA

Description: Application integration assembles methods and tools for organizing exchanges between applications, and intra- and inter-enterprise business processes. A strategic tool for enterprises, it introduces genuine reactivity into information systems facing business changes, and as a result, provides a significant edge in optimizing costs.

This book analyzes various aspects of application integration, providing a guide to the alphabet soup behind EAI, A2A, B2B, BAM, BPM, ESB and SOA. It addresses the problems of choosing between the application integration solutions and deploying them successfully. It supplies guidelines for avoiding common errors, exploring the differences between received wisdom and the facts on the ground. The overview of IT urbanization will help introduce English-speaking audiences to a powerful approach to information system flexibility developed in France. A key chapter approaches the analysis and interoperation of service levels in integration projects, while the discussion on deployment methodologies and ROI calculation anchors the theory in the real world.

Application Integration: EAI, B2B, BPM and SOA relies on concrete examples and genuine experiences to demonstrate what works – and what doesn't – in this challenging, topical and important IT domain.

Contents: Foreword xiii

Chapter 1. Introduction 1

Chapter 2. What is Application Integration? 5

- 2.1. The economy: the "engine" of integration 5
- 2.2. The history and the issues of application integration 6
- 2.3. Consequences for IT 12
- 2.4. Integration typologies 14
- 2.4.1. Classifying the integration problem types 14
- 2.4.2. Classifying the applications 19
- 2.5. EAI: Integrating enterprise applications (A2A) 22
- 2.5.1. Accounting interpretation: EAI precursor 22
- 2.5.2. EAI today 23
- 2.6. Integrating inter-enterprise exchanges (B2B) 24
- 2.7. Coupling A2A and B2B: A2B (or Business Collaboration) 25
- 2.8. Managing business processes (BPM) 25
- 2.9. Service-oriented architectures (SOA) 26
- Chapter 3. Levels in Integration Services 29
- 3.1. Transport and connectivity 30
- 3.1.1. Defining partners 30

- 3.1.2. Data transport 32
- 3.1.3. Connectivity 42
- 3.1.4. Supervising transport 50
- 3.2. Adapting the information 52
- 3.2.1. Transformation 52
- 3.2.2. Routing 62
- 3.2.3. Storage 65
- 3.2.4. Defining the rules 66
- 3.2.5. Supervising exchanges 70
- 3.3. Automating business processes 73
- 3.3.1. Modeling business processes 73
- 3.3.2. Executing business processes 86
- 3.3.3. Supervising business processes 88
- 3.4. Business process and integration: mediation and exchange 90
- 3.4.1. Business process level and integration level 90
- 3.4.2. Mediation process sub-level 91
- 3.4.3. Exchange process sub-level 91
- 3.4.4. Interaction between the sub-levels 93
- 3.4.5. Interaction between integration and business process (BPM) 93
- 3.5. Choosing the exchange architecture 94
- 3.5.1. Synchronous/asynchronous communication 95
- 3.5.2. Architecture: centralized or distributed? 95
- Chapter 4. Types of Integration Projects 99
- 4.1. Integrating a single application 99
- 4.1.1. Exchange cartography 99
- 4.1.2. The integration platform 101
- 4.2. IT infrastructure projects 104
- 4.2.1. Urbanization of information systems 104
- 4.2.2. IT exchange infrastructure 106
- 4.3. Integrating inter-enterprise exchanges 111
- 4.3.1. Exchanging electronic documents (EDI) 112

- 4.3.2. XML standards 113 4.3.3. Inter-enterprise "spaghetti" system 116 4.3.4. Inter-enterprise exchange platforms 118 4.3.5. "Single Window" initiatives 123 4.4. Managing business processes 127 4.4.1. Points of departure 128 4.4.2. BPM project opportunity: choosing the processes 130 4.4.3. The "top-down" approach 131 4.4.4. Expected results 133 4.5. Implementing a service architecture 134 4.5.1. Characteristics of an SOA 137 4.5.2. Elements of an SOA infrastructure 141 4.5.3. Applicable norms and standards 142 Chapter 5. Application Integration Tools 145 5.1. Brokers 145 5.2. Application servers 146 5.3. Enterprise Service Bus (ESB) 148 5.4. BPM tools 148 Chapter 6. Understanding Integration Failures 151
- 6.1. High failure rates 151
- 6.2. The technological approach 152
- 6.2.1. New technology or new packaging? 152
- 6.2.2. Technology confronts reality 153
- Chapter 7. Integration Myths 155
- 7.1. The mirage of the single tool 155
- 7.1.1. A conservative choice: example and consequences 156
- 7.1.2. "Modern" architectural choice: example and consequences 157
- 7.2. XML: miracle format 157
- 7.3. Business adapters: simplifying the implementation 158
- 7.3.1. Business adapter: implementation maintenance problem 160
- 7.3.2. By way of a conclusion on business adapters 161
- 7.4. Java: the proof of a modern solution 162

7.4.1. The real reason for Java 162
7.4.2. Limitations of an all-Java integration solution 163
7.5. Files: the "poor cousins" of application integration 163
7.6. Process and services are everything 164
7.6.1. BPM and SOA: top-down approach – from business to IT 165
7.6.2. EAI and B2B: bottom-up approach – from IT to business. 166
7.6.3. Complementary approaches 166
Chapter 8. Integration and IT Urbanization 167
8.1. IT urbanization review 167
8.2. Limits of urbanization without an integration solution 169
8.3. How do integration solutions support IT urbanization? 169
8.4. Limits of integration solutions without IT urbanization 170
8.5. How does IT urbanization support integration solutions? 170
8.6. The need to correlate integration solutions and urbanization 171
Chapter 9. Choosing an Application Integration Solution 173
9.1. General approach 173
9.2. Methodology for calculating return on investment (ROI) 173
9.2.1. Introduction to the method 173
9.2.2. Equations: maintaining the language of integration 176
9.2.3. Operational workload gains through centralized supervision 178
9.2.4. Quality of service improvements 179
9.3. Opportunity study 181
9.3.1. Analyzing the real needs of the enterprise 182
9.3.2. Real needs and the "state of the art" 182
9.3.3. Identifying possible business benefits 183
9.4. Go/NoGo from General Management 183
9.5. The search for a candidate: Request for Information (RFI) 184
9.5.1. Why issue an RFI? 184
9.5.2. Key points in an integration RFI 184
9.6. Request for Proposal (RFP) or specifications document 185
9.6.1. Interest and spirit of an RFP 185

- 9.6.2. Myths: standard questionnaire + one-stop supplier 185
- 9.6.3. Key points in an RFP for application integration 186
- 9.7. Presentations from the candidates 188
- Chapter 10. Deployment Methodology 189
- 10.1. Introduction to the method 189
- 10.2. Deployment methodology: general principles 190
- 10.3. Special case: deploying BPM and SOA 192
- 10.4. Economic models of cost allocation 192
- 10.4.1. Cost allocation linked to usage 192
- 10.4.2. Cost allocation linked to usage and services (developed model) 195
- Chapter 11. Operational Examples of Implementation 203
- 11.1. Rationalizing bonds purchase order management (banking) 203
- 11.1.1. The context 203
- 11.1.2. The choices204
- 11.1.3. The solution 205
- 11.1.4. The results 206
- 11.2. An EAI hub (telecommunications) 207
- 11.2.1. The context 207
- 11.2.2. The choice 207
- 11.2.3. Implementing the pilot: first difficulties 208
- 11.2.4. Integration tests: disturbing results 209
- 11.2.5. How did we end up here? Consequences of architectural choices 209
- 11.2.6. Performance tests: catastrophic results 210
- 11.2.7. Report card: final decision 210
- 11.2.8. The lesson: what we could have done 211
- 11.3. A2A and B2B (retail) 211
- 11.3.1. The context 211
- 11.3.2. The choice 212
- 11.3.3. The solution 212
- 11.3.4. The results 213
- 11.4. BPM and SOA in service delivery 213
- 11.4.1. The context 213

Ordering:

11.4.2. The choice 214
11.4.3. The solutions 214
11.4.4. The results 215
11.4.5. Points to watch for this type of solution 216
Conclusion 217
Bibliography 219
Index 221
Order Online - http://www.researchandmarkets.com/reports/2182782/
Order by Fax - using the form below
Order by Post - print the order form below and send to
Research and Markets, Guinness Centre,

Research and Markets Guinness Centre, Taylors Lane, Dublin 8, Ireland.

RESEARCHANDMARKETS Page 1 of 2

Fax Order Form

To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit

http://www.researchandmarkets.com/contact/

Order Information

Please verify that the product information is correct.

Product Name:	Application Integration. EAI B2B BPM and SOA
Web Address:	http://www.researchandmarkets.com/reports/2182782/
Office Code:	SCBTS3RE

Product Format

Please select the product format and quantity you require:

 Quantity

 Hard Copy (Hard

 Back):

EUR 94 + EUR 25 Shipping/Handling

* Shipping/Handling is only charged once per order.

Contact Information

Please enter all the information below in **BLOCK CAPITALS**

Title:	Mr	Mrs	Dr		Miss		Ms	Prof	
First Name:				La	st Name	:			
Email Address: *									
Job Title:									
Organisation:									
Address:									
City:									
Postal / Zip Code:									
Country:									
Phone Number:									
Fax Number:									

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)

RESEARCHANDMARKETS Page 2 of 2

Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

Pay by credit card:	American Express	
	Diners Club	
	Master Card	
	Visa	
	Cardholder's Name	
	Cardholder's Signature	
	Expiry Date	I
	Card Number	
	CVV Number	
	lssue Date (for Diners Club only)	I
Pay by check:	Please post the check, acc	companied by this form, to:
Pay by check:	Please post the check, acc Research and Markets, Guinness Center, Taylors Lane, Dublin 8, Ireland.	companied by this form, to:
 Pay by check: Pay by wire transfer: 	Please post the check, acc Research and Markets, Guinness Center, Taylors Lane, Dublin 8, Ireland. Please transfer funds to:	companied by this form, to:
 Pay by check: Pay by wire transfer: 	Please post the check, acc Research and Markets, Guinness Center, Taylors Lane, Dublin 8, Ireland. Please transfer funds to: Account number	companied by this form, to: 833 130 83
 Pay by check: Pay by wire transfer: 	Please post the check, acc Research and Markets, Guinness Center, Taylors Lane, Dublin 8, Ireland. Please transfer funds to: Account number Sort code	companied by this form, to: 833 130 83 98-53-30
 Pay by check: Pay by wire transfer: 	Please post the check, acc Research and Markets, Guinness Center, Taylors Lane, Dublin 8, Ireland. Please transfer funds to: Account number Sort code Swift code	companied by this form, to: 833 130 83 98-53-30 ULSBIE2D
 Pay by check: Pay by wire transfer: 	Please post the check, acc Research and Markets, Guinness Center, Taylors Lane, Dublin 8, Ireland. Please transfer funds to: Account number Sort code Swift code IBAN number	companied by this form, to: 833 130 83 98-53-30 ULSBIE2D IE78ULSB98533083313083
 Pay by check: Pay by wire transfer: 	Please post the check, acc Research and Markets, Guinness Center, Taylors Lane, Dublin 8, Ireland. Please transfer funds to: Account number Sort code Swift code IBAN number Bank Address	companied by this form, to: 833 130 83 98-53-30 ULSBIE2D IE78ULSB98533083313083 Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland.

If you have a Marketing Code please enter it below:

Marketing Code:

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to: (646) 607-1907 or (646) 964-6609 - From USA +353-1-481-1716 or +353-1-653-1571 - From Rest of World