The Renaissance of Legacy Systems

Method Support for Software-System Evolution

With contributions from Dario Avallone, Markus Breuer, John Favaro, Jane Ransom, Eirik Tryggeseth and Claude Villermain



Contents

	Preface	. xi
1.	Background	. 1
	1.1 Legacy Systems	. 2
	1.2 System Change	
	1.3 System Evolution	
	References and Further Reading	
2.	Renaissance: a Method for System Evolution	. 17
	2.1 The Process Model	
	2.2 Information Management	
	2.3 Responsibilities	
	2.4 Method Customization	. 32
	2.5 The Method Framework	
	References and Further Reading	
3.	Evolution Planning	. 39
	3.1 Legacy System Assessment	
	3.2 Evolution Strategies	
	3.3 Cost Estimation and Risk Assessment	
	3.4 Evolution Project Planning	
	References and Further Reading	
4.	Modelling for Evolution	. 63
	4.1 Context Modelling	
	4.2 Technical Modelling	
	4.3 Traceability in System Modelling	
	References and Further Reading	
5	Migration to Distributed Architectures	. 85
	5.1 Distributed Architectural Models	
	5.2 System Integration Models	
	References and Further Reading	105
6.	Case Study 1: Evolution of a Legacy System	107
	6.1 Background	
	6.2 Scenario 1: Evolution Strategy Development	113

37	1	1

_		
Con	ter	١tሩ

	6.3	Scenario 2: Evolution Strategy Implementation
	Refe	rences and Further Reading
7.	Case	Study 2: Evolution of a Modern System
	7.1	Overview
	7.2	Legacy System Investigation
	7.3	Target System Definition
	7.4	Evolution Strategy Development
	7.5	Target System Modelling
	Furt	her Reading
Аp	pendi	ices
•	A	Online Software Reengineering Resources 171
	В	Tool Vendors
	C	Implementation Technology Vendors 177
Inc	lex .	