
Contents

SECTION I: Planning

1	Getting Started	3
	The Packaged Software Dilemma.....	3
	Expectations.....	3
	The Horror Stories	4
	The Decision	6
	Types of Software	6
	Target Audience	7
	Implementation versus Installation	7
	Is Packaged Software the Answer?.....	8
	Criteria for Success	10
	Realistic Expectations.....	10
	Organizational Flexibility.....	11
	Reference	11
2	The First Steps	13
	The Need for a Formal Selection Process.....	13
	Step 1: Form the Selection Team	14
	The Project Charter.....	14
	Clarity	14
	Commitment	15
	Conciseness.....	20
	Team Selection	20
	Composition.....	20
	Size	22
	Continuity.....	22
	The Team Leader	23
	Key Characteristics	23
	End User versus IT	24
	One versus Two.....	24
	Facilitators.....	25
	Outside Advisors	25

SECTION II: The Selection Process

3 Identifying Requirements and Potential Products	29
The Selection Process — Step 2: Identify and Prioritize Requirements	29
Identifying Requirements.....	30
Functional Requirements	30
Question 1: What Is the Current Process?.....	31
Question 2: What Is Missing from the Current Process, and What in It Does Not Work Properly?.....	31
Question 3: Which of the Items Identified in the Previous Question Must Be Corrected by the New System?.....	37
Question 4: What Criteria Will Be Used to Prove That the Proposed System Satisfies the Requirements?.....	38
Technical Requirements.....	39
Vendor-Related Requirements	39
Prioritizing Requirements	39
Categorize Each Requirement	42
Assign Importance Rankings.....	42
Document the Desired Response	44
The Selection Process — Step 3: Identify Potential Products	45
4 RFPs and RFIs	47
RFI versus RFP — What Is the Difference?.....	47
What Is the Value of an RFP?.....	48
To Increase the Objectivity of the Evaluation.....	48
To Ensure That All Key Requirements Are Included in the Evaluation....	48
To Separate Facts from Vendor Marketing Hype.....	49
What Are the Disadvantages?.....	49
Effort.....	49
Timeframe.....	49
When Is an RFP Needed?	50
Contents of an RFP	51
1. Introduction and Background	51
2. General Information	52
3. Vendor Profile	55
4. Term.....	56
5. Termination	56
6. Specific Project Requirements	57
7. Program Management	57
8. Vendor Staffing	58
9. Work Space and Other Vendor Requirements	58
10. Vendor Tools.....	58
11. Cost Proposal	58
12. Proposed Schedule	59
13. Payment Terms	59
14. Vendor Nonperformance.....	59
15. Changes in Scope	59
Ranking RFP Sections	60

5 Product and Vendor Evaluation	63
Step 1: Team Evaluates Responses and Creates Short List of Vendors	64
Review of Mandatory Items	64
Evaluation of All Critical and Nice-to-Have Items	65
Creation of Composite Ranking Spreadsheet	67
Selection of Short-List Vendors	67
Step 2: Team Schedules Vendor Presentations.....	73
Scheduling	73
Agenda	74
Evaluation	74
Step 3: Team Checks Vendor References	76
Step 4: Short-List Vendors Present Their Products (Standard Demo) and Capabilities.....	78
Step 5: Team Evaluates Presentations and Creates Finalist List of Vendors	78
Step 6: Team Conducts Site Visits to Key Customers of Finalist Vendors... <td>78</td>	78
Step 7: Finalist Vendors Present Customized Demos of Products.....	79
Step 8: Team Determines Whether to Negotiate with All Finalists	80
Scripted Presentations.....	81

SECTION III: Legal Issues — Contracts and Software Licenses

6 The Negotiation Process	85
Types of Contracts.....	86
Project Team Involvement in Negotiations.....	87
Other Team Members.....	88
Basic Precepts	89
1. Contracts Are Drafted to the Author's Advantage.....	90
2. Vendors Have More Expertise in Contract Negotiations Than the Company	90
3. It Is Essential to Understand Every Clause in the Contract.....	91
4. Everything Is Negotiable	91
Improving the Company's Negotiating Position.....	91
1. Negotiate with More Vendors Than Needed.....	92
2. Consider Timing	92
3. Establish the Ground Rules	92
Determine the Type of Negotiating Session.....	92
Determine the Length of Negotiating Sessions	93
Determine the Timing of Negotiating Sessions	93
Limit the Number of Negotiators	93
4. Do Not Begin Work without a Signed Contract.....	93
The Negotiation Process.....	94
1. Review the Contract	94
2. Determine Company's Position on Each Point.....	94
3. Categorize Required Changes.....	95
Determine Who Will Lead the Sessions.....	95
Establish Ownership of the Document	96

Provide for Breakout or Offline Discussions.....	96
Keep Accurate Records of Discussions and Open Items.....	96
7 Key Elements of Software Licenses	99
Introduction.....	100
Definitions	101
Term	102
Termination.....	102
Termination for Breach of Contract	102
Termination for Convenience.....	103
License	104
Deliverables.....	105
Schedule for Deliverables	105
Maintenance (If Contained in the Base Software License)	105
Fees and Payment Terms.....	106
Confidentiality and Protection of Data	107
Representations and Warranties.....	107
Indemnification.....	108
Limitation of Liability.....	108
Miscellaneous Provisions	109
8 Professional Services Agreements	111
Who?	112
Qualifications.....	113
Interviewing.....	113
Dismissal	113
Replacement Policy.....	113
Management	114
Solicitation Policy.....	114
Noncompete	114
Subcontractors	114
Background Checks	115
On-Site Considerations	115
Nondisclosure Agreement.....	115
What?.....	116
Acceptance of Deliverables.....	116
Ownership of Deliverables.....	117
Changes in Scope	117
Reporting.....	119
Use of Company Resources	119
Where?	119
Fee Related.....	119
Fixed Price	119
Time and Materials	120
Time and Materials Not-to-Exceed	121
Expenses	121
Miscellaneous	122

9 Service Contracts and Statements of Work	123
Two-Tiered Contracts	123
Terms and Conditions Are Negotiated Only Once.....	125
Master Services Agreement Negotiations Are Streamlined	125
Attorney Time May Be Reduced	125
It Is Not Necessary To Know All Work That Will Be Involved at the Beginning of the Project	125
Master Services Agreement	126
References to Statements of Work.....	126
Definition of Types of Work To Be Performed	126
Format of Statement of Work	127
Order of Precedence	127
Termination for Convenience.....	127
Termination for Force Majeure	127
Reporting.....	128
Auditing.....	128
Service Level and Deliverable Credits.....	128
Steering Committee.....	129
Statements of Work.....	129
Development Statements of Work	130
Support Statements of Work	131
Service-Level Agreements	132
 SECTION IV: Implementation Considerations	
10 Establishing the Roadmap	137
Will the Company Use an Application Service Provider or Install the Software on Its Machines?	137
Will Implementation Be “Big Bang” or Phased?	140
Big Bang	141
Advantages.....	141
Disadvantages	142
What Will Be Included in Each Phase?	143
Phased by Site	143
Phased by Functionality	145
Phased by Both Functionality and Site	145
How Are Phases Chosen?.....	146
Choosing the Initial Site	146
Choosing the Initial Functionality.....	147
Will There Be Parallel Runs?.....	148
Communicating the Roadmap.....	148
11 Who Is In Charge?.....	149
Architect, General Contractor, or Skilled Trade?	150
Architect	150
General Contractor.....	150
Skilled Trade.....	150

Sources of Assistance.....	151
Systems Integrator.....	151
Boutique Firms.....	152
General Purpose Staffing Company	152
The Turnkey Alternative.....	153
Sources of Assistance.....	154
Company Ownership with Assistance from Outside Firms	154
Sources of Assistance.....	156
The Program Management Office	156
Responsibilities	157
Other Key Decisions.....	157
How Much Control Will the Outside Firms Have?	158
How Much Involvement Will In-House IT Staff Have?	158
Who Will Coordinate the Outside Firms' Work If There Is More Than One?	158
Will the Company Outsource Work to the Outside Firms or Use Them for Staff Augmentation?	159
The Champion.....	160
The Implementation Team.....	161
12 Selling the Solution	163
What Is Involved?	163
Step 1: Calculate the Costs of the Proposed Solution.....	164
Step 2: Calculate the Costs of the Current Process	165
Step 3: Identify the Benefits of the Proposed Solution	167
Cost Reduction	167
Cost Avoidance.....	167
Quality Improvement.....	168
Increased Functionality	168
Step 4: Calculate Return on Investment	168
Step 5: Outline the Implementation Schedule	169
Step 6: Develop the Business Case and Presentation.....	172
Step 7: Presell the Solution.....	174
Step 8: Present the Solution.....	175
References.....	175
13 Organizational Readiness	177
The Basics of Change.....	178
Roles Associated with Change.....	179
The Impact of Change	180
Components of Successful Change	181
Commitment	182
Sustainability	182
The Critical Element: Communication.....	183
Clear	183
Consistent.....	184
Targeted	184
Ongoing	184

The Rumor Mill	184
Formal Communication	185
Key Messages	186
Schedule	187
Frequently Asked Questions	187
Informal Communications	189
Coping with Conflict.....	189
References.....	190

Section V: Implementation

14 The Gr ound Rules	195
The Need for a Rule Book	195
Step 1: Establish and Publish Standards	196
Coding.....	196
Testing.....	197
Documentation	198
Need for Review and Approval.....	198
Step 2: Develop and Monitor the Schedule	199
Micromanagement.....	199
Review Regularly.....	200
Step 3: Define and Implement Change Management.....	200
Software and Documentation.....	201
Scope.....	202
Schedule.....	202
Champion.....	202
Step 4: Create and Follow Communication Protocols.....	203
Routine Communication	203
Exception Reporting.....	203
15 Softwar e Installation	205
Step 1: Prepare the Infrastructure	206
Servers.....	206
Database.....	207
Firewall.....	207
User Interface	208
Step 2: Install Vanilla Code	208
Dealing with Problems	208
Step 3: Test the Vanilla Code with Vendor-Supplied Data	209
Step 4: Test the Vanilla Code with Company-Specific Data	211
Step 5: Test the Software in the Real World.....	214
Step 6: Review the Documentation.....	216
16 Confi guration	217
The Configuration Conundrum.....	217
Definition	218
Coding.....	221
Testing.....	221
Reference	222

17	Interfaces and Conversions	223
Interfaces	224	
Planning	224	
Which Legacy Systems Require an Interface?.....	225	
What Type of Interface Is Needed?	225	
Which Direction Is Data Transferred?	226	
How Frequently Will the Interface Be Run?.....	226	
How Long Will the Interface Be Needed?	226	
Definition	227	
Coding.....	227	
Testing.....	228	
Data Conversion.....	228	
Planning	228	
What Data Will Be Converted?.....	228	
Where Do Those Data Currently Exist?.....	230	
What Is the Volume of Data To Be Converted?.....	230	
How Clean Are the Data?	230	
If Needed, Can Code Translation Be Automated?	230	
Will the Conversion Be Automated or Manual?	231	
Who Is Responsible for the Conversion?	231	
Definition	231	
Coding.....	231	
Testing.....	232	
18	Customizations	233
Reports	233	
Planning	234	
Review All Existing Reports	234	
Develop an Inventory of All New Reports.....	234	
Determine the Tool That Will Be Used To Create Reports	235	
Definition	235	
Coding.....	235	
Testing.....	235	
Extensions and Customizations.....	236	
Planning	237	
Definition	239	
Coding.....	240	
Testing.....	240	
19	Training	241
Project-Team Training	241	
Who Will Attend Training?	242	
Which Subjects Will Be Included?	243	
Who Will Provide the Training?	243	
What Type of Training Will Be Used?	243	
Where Will the Class Be Held?.....	245	
End User Training.....	245	

Initial Training	245
Who Will Attend Training?	247
What Subjects Will Be Included?	247
Will the Company Use Vendor-Provided Training?	247
What Type of Training Will Be Used?	248
Who Will Provide the Training?	248
Where Will the Class Be Held?	249
What Materials Are Required, and Who Will Provide Them?	249
How Will Training Be Evaluated?	250
Ongoing Training	250
20 The Challenges of Multisite Implementation	253
How Much Variation Will Be Allowed?	253
Will There Be One Project or Many?	254
Who Is In Charge?	255
Single-Project Team	256
Multiple-Project Teams	256
How Many Instances Will There Be?	257
Will the Implementation Be Multicountry?	258
Multiple Languages	258
Software and Documentation	258
Training	259
Help Desk	259
Local Laws	259
Section VI: Postimplementation	
21 Support	263
Establishing End User Expectations	264
Step 1: Create a Steering Committee	264
One or More Committees?	265
Charters and Agendas	265
Step 2: Establish Service-Level Agreements	265
Step 3: Implement a Mechanism for Capturing and Reporting Performance	267
Step 4: Communicate Performance Metrics	269
Determining Who Will Provide Support	271
First-Line Response to Problems and Questions	272
Advantages	272
Disadvantages	273
Second-Line Response to Problems and Questions	274
Evaluation and Application of Vendor Patches and Upgrades	274
Modifications to Interfaces and Other Company-Specific Customizations	274
Upgrades to User Interfaces and Other Nonapplication-Specific Components	275
The Legacy System Dilemma	276
Reference	278

22	The Future	279
	The Postmortem	279
	Brainstorming	280
	Sticky Notes	280
	The Control Plan.....	280
	Legacy System Decommissioning	283
	Acquisitions and Divestitures	283

Section VII: Appendices

Appendix A	List of Acronyms	289
Appendix B	The Project Charter	293
Appendix C	Suggested Reading	299
Index		301

List of Exhibits

1-1	Traditional System Development Life Cycle (Waterfall).....	5
1-2	Changes to SDLC Phases during a COTS Implementation.....	5
1-3	Initial Assessment Checklist.....	8
2-1	Project Charter	16
2-2	The SMART Criteria.....	18
2-3	Team Members	19
2-4	Characteristics of Effective Team Members.....	21
2-5	Outside Advisor Selection Questionnaire	26
3-1	Detailed Process Map.....	32
3-2	Functional Process Map: Software Selection Process.....	33
3-3	Requirements Acceptance Criteria.....	38
3-4	COTS Vendor Assessment Questionnaire	40
3-5	Ranking and Scoring Criteria.....	43
3-6	Initial Ranking Spreadsheet	44
4-1	Basic RFP Timeframe	50
4-2	RFP Table of Contents	51
4-3	Schedule for RFP Process	53
4-4	Detailed Requirements Matrix	57
4-5	RFP Ranking Spreadsheet	60
5-1	Mandatory Items Spreadsheet.....	66
5-2	RFP Scoring Spreadsheet	68

5-3	Initial Vendor Ranking Spreadsheet	70
5-4	Initial Vendor Ranking Spreadsheet with Individual Evaluators' Rankings.....	71
5-5	Sample Letter to Non-Short-List Vendors	73
5-6	Sample Vendor Presentation Agenda	74
5-7	Simple Evaluation of Vendor Presentation	75
5-8	Short List and Finalist Vendor Evaluation	75
5-9	Vendor Reference Check Questionnaire.....	76
5-10	Functionality Gap Analysis	80
5-11	Scripted Presentation.....	82
6-1	Possible Types of Contracts for Packaged Software Implementation	86
7-1	Software License Table of Contents.....	100
8-1	Differences between Software Licenses and Service Agreements.....	112
8-2	Request for Change in Scope.....	118
8-3	Comparison of Fee Structures for Service-Based Agreements ...	120
9-1	Examples of Use of Service Contracts.....	124
9-2	SMART SLAs	133
10-1	Application Service Providers versus Software Licensing	140
10-2	Implementation Strategy Options.....	141
11-1	Implementation Assistance Options.....	151
11-2	Staff Augmentation versus Outsourcing	159
12-1	Project Costs.....	166
12-2	ROI Calculation.....	170
12-3	Break-Even Analysis	171
12-4	Business Case Table of Contents	173
12-5	Visual Representation of Deficiencies, Impacts, and Consequences	174
13-1	The SARAH Model.....	180
13-2	Communication Mechanisms	186
13-3	Communication Plan Schedule.....	188

13-4	The Conflict Continuum.....	189
14-1	Sources of Standards	197
14-2	Routine Team Communications.....	204
15-1	Vendor Problem Log	210
15-2	Contents of Test Plan.....	212
15-3	Test Case Log.....	213
15-4	Types of Testing.....	214
16-1	Contents of Configuration Specification	220
17-1	System Interfaces	224
17-2	Legacy System Interface Inventory	225
17-3	Data Conversion Inventory.....	229
18-1	Standard Report Inventory.....	234
18-2	Customization Risk Assessment.....	238
19-1	Comparison of Training Methods.....	244
19-2	Training Plan Overview	246
19-3	Comparison of Trainers.....	249
19-4	Training Survey.....	250
20-1	Comparison of Single versus Multiple Project Teams	256
21-1	Steering Committee Charter.....	266
21-2	Sample SLA Report	268
21-3	SLA Trend Chart	269
21-4	RAVE Measurements	270
21-5	Steering Committee Meeting Agenda.....	271
22-1	Postmortem Report.....	281
22-2	Value Achievement Assessment.....	282
22-3	Project Scorecard	284
B-1	Project Charter	294