

Contents

List of figures	v		
List of tables	viii		
Foreword	ix		
Preface	x		
Acknowledgements	xi		
1 Introduction	1		
1.1 Overview	3		
1.2 Context	5		
1.3 ITIL in relation to other publications in the Best Management Practice portfolio	7		
1.4 Why is ITIL so successful?	8		
1.5 Chapter summary	9		
2 Service management as a practice	11		
2.1 Services and service management	13		
2.2 Basic concepts	20		
2.3 Governance and management systems	25		
2.4 The service lifecycle	27		
3 Service strategy principles	33		
3.1 Strategy	35		
3.2 Customers and services	41		
3.3 Service providers	80		
3.4 How to define services	87		
3.5 Strategies for customer satisfaction	102		
3.6 Service economics	106		
3.7 Sourcing strategy	117		
3.8 Service structures in the value network	125		
3.9 Service strategy inputs and outputs	128		
4 Service strategy processes	131		
4.1 Strategy management for IT services	133		
4.2 Service portfolio management	170		
4.3 Financial management for IT services	200		
4.4 Demand management	244		
4.5 Business relationship management	256		
5 Service strategy, governance, architecture and ITSM implementation strategies	283		
5.1 Governance	285		
5.2 Establishing and maintaining a service management system	290		
5.3 IT service strategy and the business	290		
5.4 IT service strategy and enterprise architecture	292		
5.5 IT service strategy and application development	294		
5.6 Creating a strategy for implementing service management processes	294		
6 Organizing for service strategy	315		
6.1 Organizational development	318		
6.2 Organizational change	323		
6.3 Organizational departmentalization	323		
6.4 Organizational design	324		
6.5 Organizational culture	324		
6.6 Functions	326		
6.7 A logical organization structure for an IT service provider	326		
6.8 Roles	329		
6.9 Responsibility model – RACI	337		
6.10 Competence and training	338		
7 Technology considerations	341		
7.1 Service automation	344		
7.2 Service interfaces	347		
7.3 Tools for service strategy	350		

8	Implementing service strategy	353	Appendix D: Related guidance	391	
8.1	Implementation through the lifecycle	355	D.1	ITIL guidance and web services	393
8.2	Service strategy implementation activities following a lifecycle approach	356	D.2	Quality management system	393
8.3	The impact of service strategy on other lifecycle stages	358	D.3	Risk management	394
9	Challenges, risks and critical success factors	363	D.4	Governance of IT	394
9.1	Challenges	365	D.5	COBIT	394
9.2	Risks	367	D.6	ISO/IEC 20000 service management series	395
9.3	Critical success factors	369	D.7	Environmental management and green/sustainable IT	395
	Afterword	371	D.8	ISO standards and publications for IT	396
	Appendix A: Present value of an annuity	375	D.9	ITIL and the OSI framework	396
	Appendix B: Description of asset types	379	D.10	Programme and project management	397
B.1	Management	381	D.11	Organizational change	397
B.2	Organization	381	D.12	Skills Framework for the Information Age	398
B.3	Process	381	D.13	Carnegie Mellon: CMMI and eSCM framework	398
B.4	Knowledge	381	D.14	Balanced scorecard	398
B.5	People	382	D.15	Six Sigma	399
B.6	Information	382		Appendix E: Risk assessment and management	401
B.7	Applications	382	E.1	Definition of risk and risk management	403
B.8	Infrastructure	382	E.2	Management of Risk (M_o_R)	403
B.9	Financial capital	383	E.3	ISO 31000	404
	Appendix C: Service strategy and the cloud	385	E.4	ISO/IEC 27001	405
C.1	Characteristics of cloud services	387	E.5	Risk IT	406
C.2	Types of cloud service	388		Appendix F: Examples of inputs and outputs across the service lifecycle	409
C.3	Types of cloud	388		References and further reading	413
C.4	Components of a cloud architecture	389		Abbreviations and glossary	419
				Index	463

List of figures

Figure 1.1	The ITIL service lifecycle	3	Figure 3.13	Combined effects of utility and warranty on customer assets	66
Figure 1.2	ITIL's relationship with other Best Management Practice guides	7	Figure 3.14	Value of a service in terms of return on assets for the customer	66
Figure 2.1	Conversation about the definition and meaning of services	14	Figure 3.15	Utility described in terms of outcomes supported and constraints removed	68
Figure 2.2	Services are designed, built and delivered with both utility and warranty	18	Figure 3.16	Customer assets drive business outcomes	72
Figure 2.3	Sources of service management practice	19	Figure 3.17	Service assets drive services to achieve business outcomes	73
Figure 2.4	Examples of capabilities and resources	21	Figure 3.18	Service management optimizes the performance of service assets	73
Figure 2.5	Process model	21	Figure 3.19	Simple view of an IT organization	74
Figure 2.6	The service portfolio and its contents	25	Figure 3.20	Process as a means for managing the silos of the organization chart	75
Figure 2.7	Architectural layers of an SKMS	26	Figure 3.21	Service management enables business outcomes	75
Figure 2.8	Plan-Do-Check-Act cycle	27	Figure 3.22	How a service provider enables a business unit's outcomes	77
Figure 2.9	Integration across the service lifecycle	30	Figure 3.23	Growing service management into a trusted strategic asset	79
Figure 2.10	Continual service improvement and the service lifecycle	31	Figure 3.24	Type I providers	81
Figure 3.1	Achieving a balance between opposing strategic dynamics	38	Figure 3.25	Common Type II providers	82
Figure 3.2	Perspective, positions, plans and patterns	39	Figure 3.26	Type III providers	84
Figure 3.3	Strategic plans result in patterns	41	Figure 3.27	Analysing how a service will impact an outcome	89
Figure 3.4	The service triangle	50	Figure 3.28	Classifying services using service archetypes and customer assets	90
Figure 3.5	Internal and external services	51	Figure 3.29	Asset-based and utility-based strategies	91
Figure 3.6	Components of value	56	Figure 3.30	Visualization of services as value-creating patterns	92
Figure 3.7	How customers perceive value	57	Figure 3.31	Defining services with utility components	94
Figure 3.8	Money spent, value added and value realized	58	Figure 3.32	Defining services with warranty components	95
Figure 3.9	IT services and value	60	Figure 3.33	Dynamics of a service model	97
Figure 3.10	Utility increases the performance average	63	Figure 3.34	A service package	98
Figure 3.11	Warranty reduces the performance variation	64			
Figure 3.12	A service with improved utility and warranty	66			

Figure 3.35	Service packages can consist of multiple individual services of any type	98	Figure 4.11	Prioritizing strategic investments based on customer needs	160
Figure 3.36	Service packages can contain other service packages	99	Figure 4.12	Expansion into adjacent market spaces	162
Figure 3.37	Perceptions of utility and customer satisfaction	103	Figure 4.13	Expansion within single customers and market spaces	163
Figure 3.38	Service economic dynamics for external service providers	106	Figure 4.14	The service portfolio	173
Figure 3.39	Service economic dynamics for internal service providers	107	Figure 4.15	The service catalogue and linkages between services and outcomes	174
Figure 3.40	Single business impact can affect multiple business objectives	110	Figure 4.16	Service catalogue and demand management	175
Figure 3.41	Multiple business impacts can affect a single business objective	111	Figure 4.17	Service portfolio and service catalogues	176
Figure 3.42	Post-programme ROI approach	115	Figure 4.18	Phases of service portfolio management	180
Figure 3.43	Forecast analysis	116	Figure 4.19	The service portfolio management process	182
Figure 3.44	The service sourcing staircase	121	Figure 4.20	Option spaces (tomato garden example)	187
Figure 3.45	Using service provider interfaces	122	Figure 4.21	The option space tool for IT service management	188
Figure 3.46	Example of a value network	126	Figure 4.22	How executives allocate budget to strategic categories of service	189
Figure 3.47	Existing flowchart of how the service desk was supposed to work	128	Figure 4.23	An internal service provider focused on maintaining services (RTB)	189
Figure 3.48	Value net exchanges showing how things really worked	129	Figure 4.24	An external service provider focused on expanding the scope of services (TTB)	190
Figure 4.1	Overall business strategy and the strategies of business units	134	Figure 4.25	Major inputs, outputs and activities of financial management for IT services	207
Figure 4.2	The scope of strategy management	135	Figure 4.26	Cost by IT organization	210
Figure 4.3	The strategy management process	138	Figure 4.27	Cost by service	211
Figure 4.4	Strategic industry factors and competitive positions in playing fields	143	Figure 4.28	Cost by customer	213
Figure 4.5	Strategic analysis of customer portfolio	144	Figure 4.29	Cost by location	214
Figure 4.6	Strategic options for the service provider	145	Figure 4.30	Hybrid cost model (service, customer, location)	215
Figure 4.7	Variety-based (left) and needs-based (right) positioning	150	Figure 4.31	Example of cost centres and cost units	218
Figure 4.8	Access-based positioning	151	Figure 4.32	Cost types and cost elements	219
Figure 4.9	Combining variety-based, needs-based and access-based positioning	151	Figure 4.33	A cost can be classified as direct or indirect in different cost models	221
Figure 4.10	Critical success factors leveraged across market spaces	155			

Figure 4.34	Example – fixed and variable costs in a printing service	225	Figure 6.6	Services through delegation	321
Figure 4.35	Common depreciation methods	226	Figure 6.7	Services through coordination	321
Figure 4.36	Translation of cost account data to service account information	228	Figure 6.8	Services through collaboration	322
Figure 4.37	Examples of budget deviation analysis	229	Figure 6.9	Three-step change process	323
Figure 4.38	Cost units and chargeable items	237	Figure 6.10	Matching strategic forces with organizational development	324
Figure 4.39	Tight coupling between demand, capacity and supply	247	Figure 6.11	Organizational design steps	325
Figure 4.40	Examples of patterns of business activity	249	Figure 6.12	Strategic components of a logical organization structure for an IT service provider	326
Figure 4.41	Business activity influences patterns of demand for services	251	Figure 6.13	Strategic, tactical and operational components of an IT service provider's logical organization structure	327
Figure 4.42	Example of activity-based demand management	252	Figure 6.14	Linkage between customers and the service provider's logical organization structure	328
Figure 4.43	Business relationship management activities	267	Figure 6.15	Chief sourcing officer – an example	336
Figure 5.1	Strategy, policy and plan	285	Figure 7.1	Services as socio-technical systems with people and processes as pivots	343
Figure 5.2	Governance activities	286	Figure 7.2	Degrading effect of variation in service processes	345
Figure 5.3	Governance and management activities	287	Figure 7.3	The flow from data to wisdom	345
Figure 5.4	Governance bodies	289	Figure 7.4	The critical role of service interfaces	347
Figure 5.5	Using strategy to achieve balance	291	Figure 7.5	Types of service technology encounters (Froehle and Roth, 2004)	348
Figure 5.6	Enterprise architecture, strategy and service management	293	Figure 7.6	Example of a simple analytical model for the service desk	351
Figure 5.7	Strategy for organizations in trouble	297	Figure 7.7	Simple LP model	352
Figure 5.8	Dealing with repeated trouble	297	Figure 7.8	Simple network model	352
Figure 5.9	Strategy for organizations in growth mode	298	Figure 8.1	Strategic planning and control process (Simons, 1995)	355
Figure 5.10	Strategy for organizations planning radical change	299	Figure 8.2	Design constraints driven by strategy	359
Figure 6.1	Organizational value creation cycle	317	Figure E.1	The M_o_R framework	404
Figure 6.2	The centralized-decentralized spectrum	318	Figure E.2	ISO 31000 risk management process flow	405
Figure 6.3	Stages of organizational development	319	Figure E.3	ISACA Risk IT process framework	407
Figure 6.4	Services through network	320			
Figure 6.5	Services through direction	320			

List of tables

Table 2.1	The processes described in each core ITIL publication	28	Table 4.1	Questions to assess existing services as differentiators	139
Table 3.1	Differences between internal and external customers	43	Table 4.2	Customer data inputs for creating objectives	146
Table 3.2	Differences between services and manufactured products	48	Table 4.3	Examples of service management patterns	157
Table 3.3	Differences between outputs and outcomes	50	Table 4.4	Budgeting, IT accounting and charging cycles	202
Table 3.4	Types of IT service	52	Table 4.5	Examples of capital and operational costs	222
Table 3.5	Examples of core, enabling and enhancing services	53	Table 4.6	Example of indirect cost rate calculation	223
Table 3.6	Examples of utility and warranty statements	63	Table 4.7	Examples of fixed and variable costs	224
Table 3.7	Investment strategies for utility and warranty	65	Table 4.8	Comparison of demand management and capacity management	246
Table 3.8	Examples of how service potential is increased	77	Table 4.9	User profiles matched with patterns of business activity (example)	250
Table 3.9	Customer decisions on service provider types	86	Table 4.10	Differences between business relationship management and service level management	258
Table 3.10	Defining actionable service components	96	Table 4.11	Business relationship management process activities and other service management processes	258
Table 3.11	User segmentation and user packages	102	Table 4.12	What satisfies customers and users?	264
Table 3.12	The Kano model and service attributes (after Kano <i>et al.</i> , 1984)	103	Table 4.13	Customer tasks, outcomes and constraints	266
Table 3.13	The Kano evaluation table (Kano <i>et al.</i> , 1984)	105	Table 5.1	Differences between compliance- and maturity-based assessments	309
Table 3.14	Sample business case structure	108	Table 6.1	Basic organizational structures	325
Table 3.15	Common business objectives	109	Table 6.2	Examples of sourcing roles and responsibilities	337
Table 3.16	NPV decisions	112	Table 6.3	An example of a simple RACI matrix	338
Table 3.17	Example of NPV of a proposed service management programme	113	Table 7.1	Instrumentation techniques	346
Table 3.18	Types of cash flow	113	Table 7.2	Event management techniques	346
Table 3.19	Example of the IRR of a proposed service management programme	114	Table 9.1	Measurement principles	366
Table 3.20	Main sourcing structures (delivery strategies)	120	Table A.1	Present value of an annuity	377
Table 3.21	Service strategy inputs and outputs by lifecycle stage	130			