

The Guide to the Universal Service Management Body of Knowledge

A comprehensive guide to best practices for managing the
provision of services

Ian M. Clayton

Service Management 101™

An Element of the Service Management 101™ Series

The Guide to the Universal Service Management Body of Knowledge (USMBOK™)

Version 2008.08c

ISBN: 978-0-9814691-0-2

Copyright © 2008 Virtual Knowledge Solutions International Incorporated. All worldwide rights reserved.

Printed in the United States of America

Published by Tahuti Enterprises LLC

No part of this publication shall be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), except as permitted under Sections 107 or 108 of the United States Copyright Act, and without either the prior written permission of the Publisher, or authorization through the appropriate per-copy fee as defined by a prevailing license. Requests for permission should be directed to: info@vksii.dm.

TRADEMARKS & COPYRIGHTS: Service Management 101 (SM101), the SM101 logo, USMBOK, USMBOK logo, Service Management Master, Lean Service Management, and Service Management Foundation, and related trade dress are trademarks or registered trademarks of Virtual Knowledge Solutions International Incorporated (VKSII) and may not be used without written permission. All other trademarks are the property of their respective owners.

LIMIT OF LIABILITY/DISCLAIMER OF WARRANTY: The publisher and author have used their best efforts in preparing this book. The publisher and author make no representation or warranties with respect to the accuracy or completeness of the contents of this book and specifically disclaim any implied warranties of merchantability or fitness for a particular purpose. No warranty may be created or extended by sales representatives or written sales materials. The accuracy and completeness of the information provided herein and the opinions stated herein are not guaranteed or warranted to produce any particular results and the advice and strategies contained herein may not be suitable for every individual. Neither the publisher nor author shall be liable for any loss of profit or any other commercial damages, including but not limited to special, incidental, consequential, or other damages. All representations or warranties that may be made in any advertising contained in this book are solely the responsibility of the offeror and neither publisher nor author will have any liability in any regard based upon such representations or warranties.

IDEAS & COMMENTS: Any ideas, suggestions, or comments regarding this publication and how it may be improved may be submitted at <http://www.sm101-support.com>.

CONTENTS

PREFACE TO THE THIS EDITION	I
HOW THIS BOOK IS ORGANIZED.....	III
<i>Introduction</i>	<i>iii</i>
<i>Audience for the Guide to the USMBOK™</i>	<i>iv</i>
INTRODUCTION TO THE CONCEPT OF A ‘BODY OF KNOWLEDGE’	1
WHAT IS A BODY OF KNOWLEDGE?	1
THE UNIVERSAL SERVICE MANAGEMENT BODY OF KNOWLEDGE.....	2
<i>Deciphering the ‘Best Practice’ Concept.....</i>	<i>3</i>
Common Practice.....	3
Best Practice.....	3
Good Practice.....	3
The Practice Lifecycle.....	4
USMBOK Best Practice Statements (BPS).....	4
OVERVIEW OF THE SERVICE MANAGEMENT AREAS OF EXPERTISE	9
UNIVERSAL SERVICE MANAGEMENT BODY OF KNOWLEDGE.....	10
STANDARDS & REGULATIONS KNOWLEDGE AREA.....	11
RELATED BODIES OF KNOWLEDGE AREA	11
SERVICE ENVIRONMENT KNOWLEDGE AREA.....	12
<i>Cultural and Social Impact.....</i>	<i>12</i>
<i>Organizational Impact.....</i>	<i>12</i>
<i>Economic Impact</i>	<i>12</i>
<i>Physical Environment</i>	<i>12</i>
GENERAL MANAGEMENT KNOWLEDGE AREA.....	13
INTERPERSONAL SKILLS KNOWLEDGE AREA.....	13
PROGRAM AND PROJECT MANAGEMENT CONTEXT	14
<i>Service Management Subprojects.....</i>	<i>14</i>
<i>The Service Management Program Office (SMPO)</i>	<i>15</i>
INTRODUCTION TO SERVICE	19
WHAT IS A SERVICE?	19
<i>A Legal Definition.....</i>	<i>19</i>
<i>The Goods-Service Continuum.....</i>	<i>21</i>
<i>Product Generations - Good and Services Categories.....</i>	<i>22</i>
Information and Knowledge as a Service (INKAS).....	22

The Guide to the USMBOK™

<i>The Characteristics of a Service</i>	23
Service Intangibility.....	23
Service Inseparability	24
Service Perishability	24
Service Variability.....	24
<i>Transaction-based Services</i>	25
Pre-Transaction	26
Transaction.....	27
Post-Transaction	27
<i>The Service ‘Experience’, ‘Encounter’ and ‘Moment of Truth’</i>	28
The Nature of Service Encounters.....	28
The Context of Services.....	30
<i>Best Practice Statements</i>	30
WHAT IS SERVICE MANAGEMENT?.....	32
<i>Product Management 101</i>	32
Key Product Management Concepts & Terms	32
The Product Lifecycle	33
Two Discrete Professions – Planning and Marketing.....	35
<i>What is Service Alignment?</i>	36
<i>Best Practice Statements</i>	37
THE ENTERPRISE MODEL	37
<i>Locations</i>	37
<i>Organizations</i>	37
<i>Roles</i>	38
<i>Persons</i>	38
<i>Regulations</i>	38
<i>Best Practice Statements</i>	38
THE CUSTOMER MODEL.....	39
<i>Best Practice Statements</i>	41
THE SERVICE MODEL.....	42
<i>Types of Service Models</i>	43
The Global Service Model	43
Regional Service Model.....	43
Local Service Model.....	43
<i>Designing and Managing a Service Model</i>	44
Best Practice Statements	44
VITAL SERVICE EQUATIONS	46
<i>The Value Equation</i>	46
<i>The Expectation Equation</i>	46
<i>The Quality Equation</i>	47
<i>Best Practice Statements</i>	49
THE HIDDEN COST OF QUALITY – SUPPORT SERVICES.....	50
THREE KEY CONSTITUENCIES	50
THE INFLUENCE OF ‘ASYMMETRIC INFORMATION’.....	51
THE INFLUENCE OF FORMAL CONTRACTS	52

<i>Service Contract</i>	52
<i>Operations Contract</i>	53
<i>Supplier Contract</i>	53
THE SPECIAL CASE OF ‘IT MISALIGNMENT’	53
THE IT ORGANIZATION’S RESPONSE – IT SERVICE MANAGEMENT	55
GOLDEN RULES FOR SERVICE MANAGEMENT	56
HOLISTIC SERVICE MANAGEMENT.....	57
<i>Spheres of Influence</i>	58
<i>Elements of a successful HSM Strategy</i>	60
THE SERVICE MANAGEMENT SYSTEM	65
INTRODUCTION TO THE SERVICE MANAGEMENT SYSTEM.....	65
SERVICE MANAGEMENT SYSTEM ELEMENTS.....	66
<i>Best Practice Statements</i>	69
<i>The Business Planning Framework</i>	70
The Corporate/Enterprise Planning Layer.....	71
Best Practice Statements	73
The Business Area Layer.....	74
The Implementation and Operation Layer	75
The Business Planning Cascade	75
Best Practice Statements	76
<i>The Performance Management Framework</i>	77
Seven-Tier Measurement Model.....	78
Tier 1: Key Result Area (KRA).....	78
Best Practice Statements	78
Tier 2: Key Performance Indicators (KPIs).....	79
Best Practice Statements	79
Tier 3: Key Performance Targets (KPTs)	80
Best Practice Statements	80
Tier 4: Vital Mission Activity (VMA).....	82
Best Practice Statements	82
Tier 5: Service Level Objective (SLO).....	83
Best Practice Statements	83
Tier 6: Service Level Indicator (SLI).....	84
Best Practice Statements	84
Tier 7: Service Infrastructure Events (SIE).....	85
Best Practice Statements	85
Best Practice Statements	86
<i>Key Service Management System Artifacts</i>	87
The Service Governance Framework	88
The Service Planning Process.....	88
Capturing the Voice of the Customer.....	88
Best Practice Statements	90
The Service Fulfillment Plan	91
Common Elements of a Service Fulfillment Plan	92
The Service Plan.....	93
Best Practice Statements	93
The Service Portfolio.....	94

The Guide to the USMBOK™

The Service Catalog	96
Service Catalog Schema.....	97
Making a Service Catalog ‘Actionable’	98
Best Practice Statements	99
The Service Calendar	99
Best Practice Statements	100
The Service Priority Scheme.....	100
Impact	101
Urgency.....	101
Priority Scheme Governance.....	101
Best Practice Statements	102
The Service Portal	104
Best Practice Statements	104
The Service Quality Lifecycle.....	105
ISO/IEC 9126.....	105
<i>ISO/IEC 12207- Software Lifecycle.....</i>	<i>106</i>
<i>Service Lifecycle Costs</i>	<i>108</i>
<i>Lifecycle Concepts</i>	<i>109</i>
THE SERVICE LIFECYCLE.....	111
<i>Best Practice Statements.....</i>	<i>111</i>
<i>Key Inputs to the Service Lifecycle.....</i>	<i>112</i>
Multiple Sources of an Improvement Statement	113
The Sources of Service Catalog based Service Requests.....	113
The Relationship between Incidents and Problems	114
<i>Best Practice Statements.....</i>	<i>114</i>
<i>How the Service Lifecycle Stages are discussed.....</i>	<i>115</i>
<i>The Opportunity Stage.....</i>	<i>117</i>
Key Inputs.....	117
Major Activities.....	118
Customer Side Influences	119
Provider Side Influences	120
Key Outputs.....	120
Best Practice Statements	120
<i>Require.....</i>	<i>121</i>
Key Inputs.....	121
Major Activities.....	122
Customer Side Influences	124
Provider Side Influences	124
Key Outputs.....	125
Best Practice Statements	125
<i>Define.....</i>	<i>127</i>
Key Inputs.....	128
Major Activities.....	128
Customer Side Influences	130
Provider Side Influences	130
Key Outputs.....	131
Best Practice Statements	131
<i>Plan</i>	<i>133</i>

The Guide to the USMBOK™

Key Inputs.....	133
Major Activities.....	134
Customer Side Influences	136
Provider Side Influences	136
Key Outputs.....	137
Best Practice Statements	137
<i>Concept.....</i>	<i>139</i>
Key Inputs.....	140
Major Activities.....	140
Customer Side Influences	143
Provider Side Influences	143
Key Outputs.....	143
Best Practice Statements	144
<i>Approve</i>	<i>145</i>
Key Inputs.....	146
Major Activities.....	146
Customer Side Influences	146
Provider Side Influences	147
Key Outputs.....	147
Best Practice Statements	147
<i>Design</i>	<i>149</i>
Key Inputs.....	150
Major Activities.....	150
Customer Side Influences	153
Provider Side Influences	153
Key Outputs.....	154
Best Practice Statements	154
<i>Develop (Build)</i>	<i>155</i>
Key Inputs.....	156
Major Activities.....	156
Customer Side Influences	159
Provider Side Influences	159
Key Outputs.....	159
Best Practice Statements	159
<i>Assure.....</i>	<i>161</i>
Key Inputs.....	162
Major Activities.....	162
Customer Side Influences	164
Provider Side Influences	164
Key Outputs.....	165
Best Practice Statements	165
<i>Deploy.....</i>	<i>167</i>
Key Inputs.....	168
Major Activities.....	168
Customer Side Influences	169
Provider Side Influences	169
Key Outputs.....	170
Best Practice Statements	170
<i>Commission</i>	<i>171</i>

The Guide to the USMBOK™

Key Inputs.....	172
Major Activities.....	172
Customer Side Influences	174
Provider Side Influences	175
Key Outputs.....	175
Best Practice Statements	176
<i>Operate & Support</i>	<i>177</i>
Key Inputs.....	178
Major Activities.....	178
Customer Side Influences	180
Provider Side Influences	180
Key Outputs.....	181
Best Practice Statements	181
<i>Maintain</i>	<i>183</i>
Key Inputs.....	184
Major Activities.....	185
Customer Side Influences	186
Provider Side Influences	186
Key Outputs.....	187
Best Practice Statements	187
<i>Revise</i>	<i>189</i>
Key Inputs.....	190
Major Activities.....	191
Customer Side Influences	192
Provider Side Influences	192
Key Outputs.....	192
Best Practice Statements	193
<i>Retire</i>	<i>195</i>
Key Inputs.....	196
Major Activities.....	196
Customer Side Influences	197
Provider Side Influences	198
Key Outputs.....	198
Best Practice Statements	198
<i>Service Lifecycle – Critical Artifact Path</i>	<i>199</i>
THE SERVICE REQUIREMENT LIFECYCLE.....	200
<i>Translating a Need into an Service Level Objective</i>	<i>201</i>
<i>Requirements Elicitation</i>	<i>202</i>
<i>Requirements Analysis</i>	<i>203</i>
<i>Requirements Specification</i>	<i>203</i>
<i>Requirements Negotiation</i>	<i>203</i>
<i>Requirements Validation</i>	<i>204</i>
<i>Requirements Translation</i>	<i>204</i>
THE SERVICE REQUEST LIFECYCLE.....	204
<i>Different Types of Service Request</i>	<i>205</i>
<i>Standard Service Requests</i>	<i>205</i>
<i>Model Service Requests</i>	<i>205</i>

The Guide to the USMBOK™

<i>Common Lifecycle Stages</i>	206
<i>Service Request Type=Incident Lifecycle Stages</i>	207
<i>Service Request Type=Problem Lifecycle Stages</i>	207
<i>Service Request Type=Change Lifecycle Stages</i>	208
<i>Best Practice Statements</i>	208
THE SERVICE PROVISION LIFECYCLE™	209
<i>General Provisioning Sequence</i>	210
<i>Linking Defects to Lifecycle Stages</i>	211
<i>Best Practice Statements</i>	211
THE SERVICE OPERATIONS LIFECYCLE	212
OPERATIONS GOVERNANCE FRAMEWORK	213
THE SERVICE EVENT LIFECYCLE	214
<i>Infrastructure Events & Moderated Alerts</i>	216
Service Level Indicators (SLI)	216
Service Impact Statements.....	216
<i>Best Practice Statements</i>	216
THE SERVICE SUPPORT LIFECYCLE™	218
<i>Service Incident Management</i>	219
<i>Service Problem Management</i>	219
<i>Service Request Management</i>	220
<i>Best Practice Statements</i>	220
THE SERVICE REVISION LIFECYCLE.....	221
<i>Key Inputs to the Revision Lifecycle</i>	222
<i>The Role of Service Request Management</i>	222
<i>The Role of Service Customer Management</i>	222
<i>The Role of Service Release Management</i>	222
<i>The Role of Service Change Management</i>	223
<i>The Role of Service Planning</i>	223
<i>Key Deliverable – the Service Revision Program</i>	223
THE SERVICE RELEASE LIFECYCLE	224
<i>Best Practice Statements</i>	226
<i>The Service Asset Lifecycle</i>	227
<i>Best Practice Statements</i>	228
THE SERVICE CHANGE LIFECYCLE	229
<i>Best Practice Statements</i>	231
THE SERVICE PERFORMANCE FRAMEWORK.....	232
<i>Service Quality Index (SQI)</i>	232
<i>Service Cost Index (SCI)</i>	233
THE SERVICE ORGANIZATION.....	237
THE SERVICE ORGANIZATION AND SERVICE PROVIDER ORGANIZATION (SPO) CONCEPT.....	237
A Shift in Management Focus.....	237
Adopting a Service Culture.....	237

Key Organizational Elements	238
<i>Service Organization 'Line of Visibility'</i>	239
<i>The Service Organization – Role Continuum</i>	240
<i>Service Organization Extensions</i>	240
<i>The Service Organization as a System</i>	242
SERVICE MANAGEMENT KNOWLEDGE DOMAINS.....	247
INTRODUCTION	247
SERVICE MANAGEMENT KNOWLEDGE AREAS	251
INTRODUCTION	251
SERVICE CUSTOMER MANAGEMENT.....	252
<i>Governance & Regulations Management</i>	252
Charter Statement.....	252
The Ten Key Principles of a Governance Framework	253
Key Roles in an Service Provider Governance Framework	255
The Role of the Compliance Officer	256
Defining a Governance Framework.....	256
The Emerging Standard for IT Governance - ISO/IEC 38500:2008	257
Best Practice Statements	259
<i>Policy Management System</i>	261
Key Artifacts	262
Best Practice Statements	262
<i>Customer Portfolio Management</i>	263
Charter Statement.....	263
Key Concepts.....	263
Project Management	263
Program Management	264
Key Artifacts	264
Best Practice Statements	264
<i>Customer Relationship Management</i>	265
Charter Statement.....	265
Key Concepts.....	265
Get, Keep, Grow.....	265
The Customer Lifecycle	266
Why Customers Want the Service.....	267
Customer Community Management (CCM)	267
Customer Interface Management (CIM)	268
Key Artifacts	269
<i>Customer Continuity Management</i>	270
Charter Statement.....	271
Key Concepts.....	271
Key Artifacts	274
Relationship with Service Continuity Management	276
<i>Customer Risk Management</i>	276
Charter Statement.....	276
Key Concepts.....	276
Continuous Risk Management.....	277

The Guide to the USMBOK™

Key Artifacts	278
<i>Customer Requirements Management</i>	278
Charter Statement.....	278
Key Concepts.....	279
Requirement Types	280
Key Artifacts	281
SERVICE FULFILLMENT MANAGEMENT	283
<i>Service Marketing</i>	283
Charter Statement.....	283
Key Concepts.....	284
Strategic Planning.....	284
The 4Ps of Marketing	285
The Service Planning-Service Marketing Continuum.....	286
Report Catalog.....	286
Key Artifacts	287
<i>Service Planning</i>	287
Charter Statement.....	287
Key Concepts.....	287
Service Portfolio Management.....	287
Internalized Service Level Management (SLM).....	288
Key Artifacts	289
<i>Service Provision Management</i>	289
Charter Statement.....	289
Key Concepts.....	290
Key Artifacts	290
<i>Provider Relationship Management</i>	291
Charter Statement.....	291
Key Concepts.....	291
Value Network.....	291
Value Network Analysis (VNA)	291
Value Network Mapping.....	292
Key Artifacts	292
<i>Service Request Management</i>	293
Charter Statement.....	293
Key Concepts.....	293
Key Artifacts	294
<i>Service Opportunity Management</i>	295
Charter Statement.....	295
Key Concepts.....	295
Key Artifacts	295
SERVICE QUALITY MANAGEMENT	296
<i>Service Quality Planning</i>	297
Charter Statement.....	297
Key Concepts.....	297
House of Quality.....	297
Quality Action.....	298
Quality Element.....	299
Quality Measure.....	299
Key Artifacts	299

The Guide to the USMBOK™

<i>Service Excellence</i>	300
Charter Statement.....	300
Key Concepts.....	301
The Excellence Dilemma.....	301
Practice or Process Excellence Dilemma	301
Key Artifacts	302
<i>Service Lifecycle Management</i>	302
Charter Statement.....	302
Key Concepts.....	303
Lifecycle Collaboration.....	303
Lifecycle Governance.....	303
Lifecycle Visibility	303
Key Artifacts	303
<i>Capability Management</i>	303
Charter Statement.....	303
Key Concepts.....	303
Capability Model	303
Capability Level	305
Capability Scoring	306
Practice Capability.....	307
Key Artifacts	308
<i>Performance Management</i>	308
Charter Statement.....	308
Key Concepts.....	309
Performance Domain.....	309
Performance Target	309
Performance Controls	309
Performance Weighting:.....	309
Performance Indicators:.....	310
Rated Performance:	310
Data Collection:.....	310
Data Analysis:	310
Performance Plan.....	310
Performance Appraisal (or Review).....	310
Performance Gap.....	310
Key Artifacts	311
<i>Audit & Assessment Management</i>	311
Charter Statement.....	311
Key Concepts.....	311
The McKinsey 7-S Model.....	311
Assessment.....	313
Audit.....	317
Key Artifacts	320
SERVICE DELIVERY MANAGEMENT	320
<i>Service Level Management</i>	320
Charter Statement.....	321
Key Concepts.....	321
Fulfillment-Operations Bridge.....	321
Service Level Reporting	322

The Guide to the USMBOK™

Report Catalog.....	323
Service Level Statements.....	323
Model Operations Contract.....	323
Service Planning Oversight.....	323
Service Outage Review.....	323
Service Exception Report.....	323
Service Calendar Review.....	323
Service Level Review.....	324
Key Artifacts.....	324
<i>Service Asset Management.....</i>	<i>324</i>
Charter Statement.....	325
Key Concepts.....	325
Key Artifacts.....	329
Best Practice Statements.....	329
<i>Service Security Management.....</i>	<i>330</i>
Charter Statement.....	330
Key Concepts.....	331
The CIA Triad.....	331
Protection Rings.....	332
Security Controls.....	333
Information Classification.....	333
Relationship to ISO 17799/27000.....	334
Key Artifacts.....	336
<i>Service Capacity Management.....</i>	<i>336</i>
Charter Statement.....	337
Key Concepts.....	337
Capacity Perspectives.....	337
Capacity Classifications.....	338
Rated Capacity.....	338
Service Capacity Model.....	339
Entity Capacity.....	339
Operational Capacity.....	339
Capacity Competence.....	340
Cost of Capacity.....	340
Capacity Request.....	341
Capacity Request Lifecycle.....	341
Capacity Review Board (CRB).....	342
Demand Management.....	342
Capacity Measurement.....	342
Capacity Database.....	342
Forecasting (Modeling).....	343
Key Artifacts.....	343
<i>Service Continuity Management.....</i>	<i>344</i>
Charter Statement.....	345
Key Concepts.....	346
Service Impact Analysis.....	348
Key Artifacts.....	349
<i>Service Availability Management.....</i>	<i>349</i>
Charter Statement.....	350
Key Concepts.....	350

The Guide to the USMBOK™

Component Failure Impact Analysis (CFIA).....	351
Cost of Outage	352
Recover Last Known Working Configuration (LKWC).....	352
Key Artifacts	353
Best Practice Statements	354
SERVICE OPERATIONS MANAGEMENT	357
<i>Service Support Management</i>	357
Charter Statement.....	358
Key Concepts.....	358
Support Center	358
Knowledge Management (KM)	358
Workforce Monitoring (WM).....	358
Intelligent Call Scripting.....	358
Escalation and Notification	359
Excellent Support Equation	360
Service Support Reporting.....	360
Key Artifacts	361
<i>Operations Level Management</i>	361
Charter Statement.....	361
Key Concepts.....	362
Key Artifacts	362
<i>Service Supplier Management</i>	363
Charter Statement.....	363
Key Concepts.....	363
Key Artifacts	364
<i>Service Incident Management</i>	364
Charter Statement.....	365
Key Concepts.....	365
Impact	365
Urgency	365
Target Time to Restore	365
Incident Lifecycle.....	365
Priority	365
Vital Mission Activity (VMA)	365
Major Activities.....	366
Key Artifacts	366
Best Practice Statements	367
<i>Service Problem Management</i>	371
Charter Statement.....	371
Key Concepts.....	372
6-Step Problem Cycle	372
Problem Statement.....	372
Impact Statement	373
Control Barrier Analysis (CBA)	373
Fault Tree Analysis (FTA):	374
Workaround or Temporary Containment.....	374
The Five Whys.....	374
Failure Mode Effect Analysis (FMEA).....	375
Cause and Effect Diagram (CED)	376
Decision/Event Tree.....	376

The Guide to the USMBOK™

Major Activities.....	377
Key Artifacts	377
Best Practice Statements	378
<i>Service Impact Management</i>	<i>378</i>
Charter Statement.....	379
Key Concepts.....	379
Impact Aggregation	379
Neutral Impact.....	379
Service Impact Statements.....	379
Key Artifacts	379
Best Practice Statements	380
SERVICE INFRASTRUCTURE MANAGEMENT.....	381
<i>Service Facilities Management</i>	<i>381</i>
Charter Statement.....	381
Key Concepts.....	382
Environmental Zone (EZ)	382
Space Planning.....	382
Facility Planning Standards.....	383
Key Artifacts	384
Best Practice Statements	384
<i>Service Application Management</i>	<i>385</i>
Charter Statement.....	385
Key Concepts.....	386
Application Software Types	386
Application Management System	387
Application Development Environment.....	387
The Application Development Lifecycle (ADLC).....	387
Key Artifacts	387
<i>Service Systems Management.....</i>	<i>388</i>
Charter Statement.....	388
Key Concepts.....	388
Event Management.....	388
Move-Add-Change-Delete (MACD)	388
Data Center Automation (DCA)	389
Service Infrastructure Domain.....	389
Key Artifacts	389
<i>Service Configuration Management.....</i>	<i>389</i>
Charter Statement.....	390
Key Concepts.....	390
Configuration Item (CI)	390
CI Sponsorship	390
Component	391
Anything to anything support	391
Metadata	391
CI Relationships	392
Zero-cost operation.....	392
CI Lifecycle	393
Configuration Management Data Base (CMDB).....	393
Federated CMDB.....	393
CI Attribute.....	394

The Guide to the USMBOK™

Configuration Baseline	394
CI Assembly.....	394
CI Product.....	394
CI Variant.....	394
Cost of Configuration (CO Cf).....	394
Request for Configuration (RFCf)	395
Configuration Control Board (CCB).....	395
Virtual CMDB (VCMDB)	395
Request Lifecycle (RFCf).....	395
Configuration Plan.....	396
Major Activities.....	397
Best Practice Statements	398
Key Artifacts	398
<i>Service Change Management</i>	<i>399</i>
Charter Statement.....	401
Key Concepts.....	401
Origins of Change.....	401
Change Review Board (CRB).....	401
Change Review Board for High Risk (CRB/HR).....	401
The Problem/Change Cycle.....	402
Zones of Risk (ZOR)	403
Model Change.....	404
Standard, Pre-Approved Change.....	404
Change Schedule	404
Organizational Change Management (OCM).....	405
6-Step Change Cycle.....	405
Change Lifecycle Policies.....	406
Integrated Governance and Major Activities.....	407
Key Artifacts	408
Best Practice Statements	408
<i>Service Release Management.....</i>	<i>410</i>
Charter Statement.....	410
Key Concepts.....	410
Source Management.....	410
Release Units.....	410
Release Types.....	411
Release Schedule.....	411
Release Build.....	411
Source Configuration Tree	411
Fit-for-Purpose Testing.....	411
Rollout Planning.....	412
Cost of Release (CoR)	412
6-Step Release Cycle	413
The Release Management Process.....	414
Key Artifacts	415
SERVICE VALUE MANAGEMENT	415
<i>Financial Management of Services.....</i>	<i>416</i>
Charter Statement.....	416
Key Concepts.....	416
Budgeting.....	416

The Guide to the USMBOK™

Capital Investment Analysis	417
Cost Accounting.....	417
Cost Recovery.....	418
Budget, Cost and Pricing Model.....	418
Major Activities.....	419
Key Artifacts	419
Scope of Operation.....	420
<i>Service Value Mapping</i>	421
The Value Chain.....	422
Value Activities.....	423
Key Concepts.....	425
Value Maps.....	425
Value Stream Mapping.....	426
Value Add vs. Non-Value Add.....	427
Service Value Maps.....	428
Best Practice Statements	429
SERVICE LEAN THINKING	429
<i>Process Improvement at the core of many ITSM Implementation Strategies</i>	430
<i>The Cost of Common Capability Maturity Levels</i>	431
<i>The Concept of Continuous Improvement</i>	432
The History of Continuous Improvement.....	432
Ten Key Principles of Continuous Improvement	434
Principle 1: Don't just do CIP, do it for a reason.....	434
Principle 2: CIP is not CPI or CSIP.....	434
Principle 3: Relate improvement to key measures (metrics).....	434
Principle 4: Start and stay organization (Customer) focused	435
Principle 5: Trace improvement to the requirements.....	435
Principle 6: Segment along 'lines of business'	435
Principle 7: Integrated with Organizational Change Management.....	436
Principle 8: Remember Deming and Shewhart – small, incremental change	436
Principle 9: Stay LEAN (Respect Principles 3,4,and 6)	437
Principle 10: Understood as a continued process	437
The Relationship between CIP and the Service Revision Program	437
The Relationship Between PDCA, Six Sigma and Lean Methods	438
The Relationship between Continuous Improvement and Service Revision	439
Revision Control System.....	440
Best Practice Statements	440
SERVICE KNOWLEDGE MANAGEMENT	442
<i>Key Concepts</i>	442
Knowledge Management Programs	442
Certified Knowledge Management Professional (CKMP)™.....	442
Data Mining	443
Expert System.....	443
Knowledge System.....	443
Knowledge Tool.....	443
Knowledge base	443
GOVERNING SERVICE LIFECYCLE ACTIVITIES	447
INTRODUCTION	447

USMBOK EXTENSIONS	449
THE NEED FOR EXTENSIONS	449
<i>Types of Extensions</i>	<i>450</i>
<i>Criteria for an Extension</i>	<i>450</i>
<i>The Extension Request Process</i>	<i>450</i>
BIBLIOGRAPHY	453
INDEX	455

LIST OF FIGURES

Figure 1: The Practice Lifecycle.....	4
Figure 2: Service Management Areas of Expertise	10
Figure 3: The Good - Services Continuum.....	21
Figure 4: Product Generations.....	22
Figure 5: Quality Elements of Transaction-based systems.....	26
Figure 6: Service Context.....	30
Figure 7: Product Mix.....	33
Figure 8: The Product Lifecycle Stages	34
Figure 9: The Three Operational Models of Alignment.....	36
Figure 10: The Customer Model Ontology	40
Figure 11: Operational Elements of a Service Model	42
Figure 12: The Relationship between Types of Service Models.....	43
Figure 13: The Service Model Design Process	44
Figure 14: The Value Equation.....	46
Figure 15: The Expectation Equation	46
Figure 16: High Quality Equation	48
Figure 17: Low Quality Equation	48
Figure 18: Optimum Quality Equation - Consumer	48
Figure 19: Optimum Quality Equation - Provider	49
Figure 20: The Asymmetric Information Influence	51
Figure 21: Formal Contract Relationships	52
Figure 22: Spheres of Influence	59
Figure 23: The Service Management System	68
Figure 24: Business Planning Framework	70
Figure 25: The Business Planning Cascade.....	76
Figure 26: The Performance Management Framework.....	77
Figure 27: The KRA-KPI-KPT Relationship.....	81
Figure 28: Simplistic View of Relationship of Service Model Elements	87
Figure 29: The Service Planning Waterfall.....	89
Figure 30: Common elements of a service fulfillment plan	92
Figure 31: Relationship between service fulfillment plan and service portfolio	95
Figure 32: The Catalog Family.....	96
Figure 33: Service Catalog Schema.....	97
Figure 34: Example Service Priority Matrix	101
Figure 35: The ISO/IEC 9126 Quality Model.....	105

Figure 36: The ISO/IEC Software Lifecycle Process Model	107
Figure 37: Lifecycle concepts	109
Figure 38: Stages in the Service Lifecycle.....	111
Figure 39: Key inputs to the service lifecycle	112
Figure 40: Elements of a service lifecycle stage discussion	115
Figure 41: Service Lifecycle - Opportunity Stage.....	117
Figure 42: Service Lifecycle - Require Stage	121
Figure 43: Service Lifecycle - Define Stage.....	127
Figure 44: Service Lifecycle - Plan Stage	133
Figure 45: Service Lifecycle - Concept Stage.....	139
Figure 46: Example of a Concept Classification Tree.....	140
Figure 47: Service Lifecycle - Approve Stage	145
Figure 48: Service Lifecycle - Design Stage	149
Figure 49: Service Lifecycle - Develop Stage.....	155
Figure 50: Service lifecycle - Assure Stage	161
Figure 51: Service Lifecycle - Deploy Stage.....	167
Figure 52: Service Lifecycle - Commission Stage.....	171
Figure 53: Service Lifecycle - Operate Stage.....	177
Figure 54: Service Lifecycle - Maintain Stage	183
Figure 55: Maintenance Classifications.....	184
Figure 56: Service Lifecycle - Revise Stage	189
Figure 57: Service Lifecycle - Retire Stage	195
Figure 58; Service Lifecycle - Critical Artifact Path.....	199
Figure 59: Stage requirement error detected cost ratio	201
Figure 60: Requirement to objective translation stages.....	201
Figure 61: The Service Requirement Lifecycle.....	202
Figure 62: Example of a Requirement Attribute Matrix.....	203
Figure 63: The Service Request Procedure	204
Figure 64: Common Service Request Lifecycle Stages.....	206
Figure 65: The Service Provision Lifecycle.....	209
Figure 66: The Service Operations Lifecycle.....	212
Figure 67: The Service Event Lifecycle	214
Figure 68: Relationship between service events, impacts and incidents.....	215
Figure 69: The Service Support Lifecycle.....	218
Figure 70: The Service Revision Lifecycle.....	221
Figure 71: The Service Release Lifecycle.....	224
Figure 72: The Service Asset Lifecycle	227
Figure 73: The Service Change Lifecycle	229
Figure 74: Service Organization - Line of Visibility	239
Figure 75: The Role Continuum.....	240
Figure 76: Service Organization Process Hierarchy	243
Figure 77: The Knowledge Domain, Knowledge Area Map	247

Figure 78: The Knowledge Areas	251
Figure 79: Federated Governance Framework.....	253
Figure 80: Example SCARI Chart.....	257
Figure 81: Model for Corporate Governance of IT	258
Figure 82: The Customer Lifecycle	266
Figure 83: Relationship between artifacts in customer relationship management.....	269
Figure 84: The Business Continuity Pyramid	270
Figure 85: The Six Stages of Continuity Management.....	272
Figure 86: Elements of Risk Management	276
Figure 87: Continuous Risk Management	277
Figure 88: Six major activities of requirements management	279
Figure 89: Requirement Types	280
Figure 90: Example Requirement Attribute Matrix.....	282
Figure 91: Core market definition concepts	284
Figure 92: The Strategic Planning Process.....	284
Figure 93: The 4Ps of Marketing.....	285
Figure 94: The Service Marketing and Service Planning Continuum	286
Figure 95: The Service Planning Process	288
Figure 96: Service Provision Lifecycle, a subset of the Service Lifecycle	290
Figure 97: Example Value Network Map.....	292
Figure 98: Common activities involved in managing service requests	294
Figure 99: House of Quality	298
Figure 100: The Service Excellence 'Balancing Act'	300
Figure 101: The Excellence Dilemma.....	301
Figure 102: The Process Excellence Dilemma	301
Figure 103: Managing the Service Lifecycle.....	302
Figure 104: A Capability Level Model	305
Figure 105: Example of a Capability Score for the Service Provision Lifecycle	306
Figure 106: Example of a Capability Score for a Practice	307
Figure 107: Quality Control System.....	308
Figure 108: The McKinsey 7-S Model.....	312
Figure 109: Service Provision Capability Assessment 'Cube'.....	316
Figure 110: The Service Fulfillment-Operations Bridge.....	321
Figure 111: Major Service Level Management activities.....	322
Figure 112: The Service Asset Management Universe.....	324
Figure 113: A Simplistic Asset Lifecycle	325
Figure 114: Service Asset Management major activities	327
Figure 115: Enterprise Model Schema.....	328
Figure 116: The Security CIA Triad.....	331
Figure 117: Security 'Protection Ring'.....	332
Figure 118: Types of Security Controls	333
Figure 119: Types of Capacity.....	338

Figure 120: Elements of a Service Capacity Model	339
Figure 121: Common Capacity Entities and Measures	342
Figure 122: Developing a Capacity Management Plan.....	344
Figure 123: The Continuity Pyramid.....	345
Figure 124: The Stages of Continuity Management	347
Figure 125: Service Continuity major activities	348
Figure 126: Availability Management major activities	353
Figure 127: Escalation and Notification Model	359
Figure 128: Excellent Support Equation	360
Figure 129: Incident Management major activities	366
Figure 130: The Six-Step Problem Lifecycle.....	372
Figure 131: Example of a FMEA output	375
Figure 132: Example Cause and Effect (Fishbone) Diagram	376
Figure 133: The Lady or the Tiger	376
Figure 134: Problem Management major activities	377
Figure 135: Common Configuration Item Relationships	392
Figure 136: Configuration Management major activities.....	397
Figure 137: An Adapted ADKAR Change Model.....	400
Figure 138: The Problem-Change Lifecycle	402
Figure 139: Zones of Risk	403
Figure 140: Relationship between Change Schedule and Change Slot.....	404
Figure 141: The Six-Step Change Cycle	405
Figure 142: Example Change Lifecycle Policy Statement.....	406
Figure 143: Change Management major activities	407
Figure 144: The Six-Step Release Lifecycle.....	413
Figure 145: The Release Management Process	414
Figure 146: Financial Management major activities.....	419
Figure 147: Financial Management scope of operation	420
Figure 148: A Simplistic View of the Value Chain	423
Figure 149: Michael Porter's Value Chain.....	424
Figure 150: Stages in Value Mapping.....	425
Figure 151: Example Basic Value Stream Map	426
Figure 152: Mapping Service Value to Enterprise Goals.....	428
Figure 153: Shewhart's original linear quality control process	433
Figure 154: Shewhart's adapted 'cycle of learning'.....	433
Figure 155: Deming's interpretation of Shewhart's cycle	433
Figure 156: The Kaizen Approach to Continuous Improvement.....	438
Figure 157: The PDCA, Six Sigma and Lean Major Activities	439
Figure 158: The Continuous Improvement Pyramid	440
Figure 159: Governance Controls Lifecycle Activities.....	448

P R E F A C E

Preface to the This Edition

This reason for this publication is simple, to give you the reader and fellow professionals a voice in the future scope and direction of the service management profession by providing a summary view of the current service management industry ‘body of knowledge’. Many in the information technology (IT) realm have come to realize there is a vast expanse of information and proven knowledge about service management that is IT agnostic.

This publication, the Guide to the Universal Service Management Body of Knowledge (USMBOK), is deliberately named and designed to encourage an open discussion about the elements of a successful service management strategy, in general, and for IT organizations. The Guide and the discussion it invites and encourages should remove many of the traditional constraints applied to IT centric and technology dominant thinking with regards to service management. Occasionally, this thinking is based upon unproven theories and concepts more focused on the propagation of specialized knowledge for a select few, rather than the pursuit of added value through continuously improving methods and knowledge sharing for the many.

As a result of new inputs and natural growth of the USMBOK, this version contains the following enhancements over the previous writings on the subject:

- The addition of ‘Service Lean Thinking’ as a knowledge area – USM730 in respect of the importance of Lean methods to the design and operation of an efficient, specific service management strategy;
- The renaming of Value Management to Service Value Management to illustrate the emphasis on services within service organizations;
- The addition of ‘Service Knowledge Management (USM740)’ as a new area to the Service Value Management domain, representing the growing importance of retaining, farming and protecting information as it relates to the provision of services;
- The renaming of Business Service Management to Service Customer Management to illustrate the emphasis on customers and their needs;
- The addition of the word ‘Customer’ to Portfolio, Risk, Requirements, Continuity, again to emphasize the customer needs focus;
- The addition of the word ‘Service’ to Problem, Supplier, System, Facilities, Application and Security Management to emphasis on services within service organizations;
- The renaming of ‘business relationship management’ to ‘Customer Relationship Management’ to better reflect the customer focus and to respect and further leverage existing industry practices;

- Addition of an example ‘legal’ definition of service and service provider;
- Renaming of the service provider framework to ‘service system’ to represent the need for the service elements to work together as part of a holistic system for providing service;
- The addition of two terms closely associated with ‘service access points’ in the form of ‘point of service’, and ‘service portal’;
- The addition of the concepts of ‘moment of truth’ and ‘service encounter’, representing the interaction of customers with services and the service system;
- The addition of the concept of ‘information-and-knowledge-as--a-service (INKAS)’
- The addition of the ‘excellent service equation’ to the discussion of service support;
- The renaming of ‘service level agreements’ to ‘service contract’
- Added emphasis to the importance of service request, especially as it relates to measuring service success, and the concept of the service transaction engine;
- The addition of the concept of a ‘practice lifecycle’, describing the lifecycle of practices used by service management
- The addition of an explanation of the relationship between the ‘Plan-Do-Check-Act’, ‘Six Sigma’ and ‘Lean Thinking’ topics

Readers will appreciate that the scope of a truly *holistic* view of service management is vast and as such many aspects are not covered in this Guide. It is an impractical goal to include everything related to the service management profession and the pace of advances often precludes this as an objective.

Although every effort has been made to provide as detailed an overview as possible in this document, this edition may not address every aspect of service management and every effort has been taken to direct the reader to additional sources of information. The omission of any information item should not imply it is any less important than those this document does describe, and instead should be read as it was meant, to provide a robust framework for an open and vibrant discussion about what we need to be valued service management professionals.

Ian M. Clayton

Certified Service Management Professional™

Author

USMBOK™ Guide

How this book is organized

Introduction

The primary purpose of this publication, the Guide to the Universal Service Management Body of Knowledge (Guide), is to act as a Guide to the Body of Knowledge (BOK) for the Service Management profession, codifying and offering in a single, consistent framework, and the fundamental concepts of service management. The Guide provides a description of the fundamental concepts, theories, and operational and management mechanics of services and service organizations, in the form of a service management ‘system’.

The USMBOK deliberately leverages a vast, pre-existing set of reference information in an attempt to put much of the service management relevant knowledge into context, and provide a single framework for service management professionals to access, understand, and use during their own work, and as a basis for making additional industry contributions. The Guide is designed to assist the service management professional interpret and leverage the many existing sources of knowledge related to service management, and to help service organizations ‘gain visibility and management control over the quality and cost of services’ they provide to their customers.

Topical access is provided in the form of: a description of the key elements of a service management system, a number of Knowledge Domains (KD) representing major responsibilities within a service organization, and Knowledge Areas (KA) corresponding to the key skills, abilities or competencies required as a minimum by each Knowledge Domain. The Guide also includes a detailed description of a service management system, the service lifecycle, and the elements of a successful service management strategy.

A secondary but important objective is to provide a standard, common language, a lexicon of terms essential to the profession for discussing, writing, and applying service management concepts within an organizational and practical framework, and to support a standards-based credentialing scheme.

This Guide discusses service management practices generally recognized as best practice within the context of a single entity or service provider organization. It does not specifically address organizational structure, organizational change management, process or practice maturity, or quality management systems. In doing so, “generally recognized” means the knowledge and practices described are applicable to most service management initiatives, most of the time, and occasionally some tangible evidence of their value and usefulness.

The USMBOK™ Guide is organized into 8 sections or 'Parts'.

Part 1: Introduction to the Universal Service Management Body of Knowledge:

Part 2: The Service Management Areas of Expertise

Part 3: Principles of Service Management

Part 4: The Service Management System

Part 5: The Service Organization

Part 6: Service Management Knowledge Domains

Part 7: Service Management Knowledge Areas

Part 8: Governing Service Organization Activities

Audience for the Guide to the USMBOK™

The Guide is oriented towards a variety of audiences worldwide, and aims to serve the public and private organizations and professionals in need of a consistent view of service management for defining services, education and training requirements, classifying jobs, developing performance evaluation policies, or specifying service management tasks.

In addition, professional societies and educators defining course content and the certification rules, accreditation policies for university curricula, guidelines for professional practice, as well as students' and customers' representatives seeking learning within the service management profession, will benefit from using and contributing to the Universal Service Management Body of Knowledge.

This Guide provides a foundational reference for anyone interested in the profession of service management, including but is not limited to:

- Senior executives accountable for results derived from quality, cost effective service management;
- Program managers and managers of service provider organizations;
- Service managers and other team members responsible for a defined service portfolio;
- Buyers and consumers of services (customers) and their related stakeholder;
- Functional managers with employees assigned to service management responsibilities;
- Educators teaching service management and related subjects;
- Consultants and other specialists in service management and related industry professions;
- Trainers developing service management educational programs;
- Researchers analyzing the service management industry;
- Professionals interested in preparing an organization for an assessment of core competencies and certification, or an audit for compliance against a standard or set of regulations.

Every effort has been made to ensure the concepts, methods, and terms used are consistent with the service management industry in general.

P A R T O N E

Introduction to the Universal
Service Management Body of
Knowledge (USMBOK™)

Introduction to the concept of a ‘Body of Knowledge’

What is a Body of Knowledge?

A ‘Body of Knowledge’ or BOK is generally defined as a repository of information containing the sum total of all documented expertise of a profession. The development of a BOK is a significant stage in the maturity of a profession as it represents a broad consensus regarding the profession itself and the range of knowledge, skills, and methods that should be mastered by practitioners in the field. It defines the profession.

A BOK also defines the core competencies shared by the profession and what is *known*, and what is *done* with that knowledge. A BOK helps all those in the profession, or related professions, to determine what to teach, how to hire, and how to position the profession overall with other professions. A BOK is derived from published literature and the accumulated experiences of subject matter experts and practitioners in the profession, and continues to mature as the profession evolves through open dialogue and representation. It is a ‘living’ reference for, and of, the profession.

A BOK facilitates professional development for practitioners at any stage in their careers, as well as people who come from other backgrounds/disciplines, and provides the basis for curriculum development and support for professional development. A BOK is also the basis for any future certification and credentialing schemes and evolves in line with any continuing education requirements.

A BOK is a fundamental, but not the sole, reference for *open* and *standards* based professional development programs, and should promote integration and connections with related disciplines and other BOKs, stimulate an open dialog amongst its professionals, and encourage a concerted effort to ensure the professional knowledge evolves in a timely and relevant manner.

The Universal Service Management Body of Knowledge

As professionals within the service management industry work to meet changing needs and expectations, it is imperative adequate tools and knowledge are attained through formal education, experience, and life-long learning. Service management professionals must anticipate and not react. Service management professionals require acknowledgement and recognition as a distinct branch of knowledge to advance the profession in the industry and marketplace.

As with other professions such as medicine, project management, law, manufacturing, and accounting, the body of knowledge is relevant to the practitioners who apply it (upon whose experience much of the information is based), and the academics that study and advance the profession. The Universal Service Management Body of Knowledge (USMBOK™) is the sum of knowledge within the profession of service management and relates to service management principles as used universally by individuals working within the service profession, including those working within information technology organizations.

The USMBOK includes a set of generally accepted terms, methods, concepts, and “best” practices leveraged heavily from Product Management. In the Guide, the term ‘Service Management’ is synonymous with IT Service Management and ‘business’ synonymous with any customer facing corporate, government, non-profit, or similarly goaled organizational unit.

The USMBOK organizes, distills, and provides access to the continuously evolving core knowledge used by service management professionals and their organizations. It defines and uses generally accepted definitions and practices and descriptions of important roles, concepts, tools, and methodologies. The USMBOK is designed to promote the advancement, understanding, and recognition of the profession among those who interact with the service management community.

The USMBOK includes proven traditional practices that can be widely applied, as well as emerging innovative practices and its development and ongoing relevance is greatly enhanced by the support of a professional association focused on the needs of the service management professional.

Deciphering the ‘Best Practice’ Concept

Throughout this publication the term practice is used to describe what many term elsewhere a ‘process’. The use of the term practice within this Guide is quite specific. A practice is a competency or set of skills, an accepted method or standardized activity performed by an organizational unit. A practice may be solely responsible for one or more ‘processes’, although processes typically work across organizational (functional) units.

Regardless of industry there is considerable interest in the concept of a ‘best practice’. There are also a wide variety of definitions as to what constitutes a best practice. This Guide calls upon some of the more common descriptions of a best practice and defines it as a technique or methodology that, through experience, research and general industry consensus, has proven to reliably lead to a desired result.

Common Practice

The journey to the ideal practice starts with what we shall term a ‘common practice’. A common practice is one that is defined in some form, but lacks general industry recognition as being preferred or superior to any others, in any way. Standards are good examples of ‘common practices’, representing the minimum requirements. These might not be ‘best’, but they do provide a starting point and basis for comparison. Select the best. Common practices, like standards, provide a pass/fail level of assessment.

Best Practice

A ‘best practice’ is one generally regarded as a theoretically sound. It lacks empirical proof of achieving a specific result and is proposed by a community of practice as a standard, or minimum basis for a practice. Best is transformed into good by its application to help achieve your desired results.

Best practices often carry an industry ‘stamp of approval by being documented in one or more respected reference sources. A commitment to using the best practices in any field is a commitment to using all the knowledge and technology at one's disposal to ensure success. A best practice is actually a misnomer as there is often a lack of empirical information to support the claim of a best practice. This said they tend to be ‘generally accepted’. The ‘Generally Accepted Accounting principles (GAAP)’ of the Financial Management industry is a good example of best practice documentation.

Good Practice

A ‘good practice’, is the result of applying a best practice to a specific personal, or organizationally specific situation, an adaptation to meet local requirements. A ‘good practice’ can be defined as activity designed to achieve a desired result using a proven, recommended, approved and legal set of actions. The key word here is proven in the sense the practice is based upon application, not theory.

It is all about:

"Doing things the right way for the right reason rather than just doing things right".

The term “good practice” is used to mean there is general agreement that the correct application of certain concepts, terms and techniques can enhance the visibility and management control a service provider organization has over the quality and cost of the services it provides. Good practice does not mean the knowledge described should always be applied uniformly in all cases. Good practices trump best practices because of their specificity.

The Practice Lifecycle

Practices can be managed to a lifecycle that spans common, best, good and next, and be part of a commitment to continuously improve. So, a common practice can become a best practice through general acceptance. A best practice can be matured into a good practice that produces a known result consistently and cost effectively. It meets or exceeds your requirements.

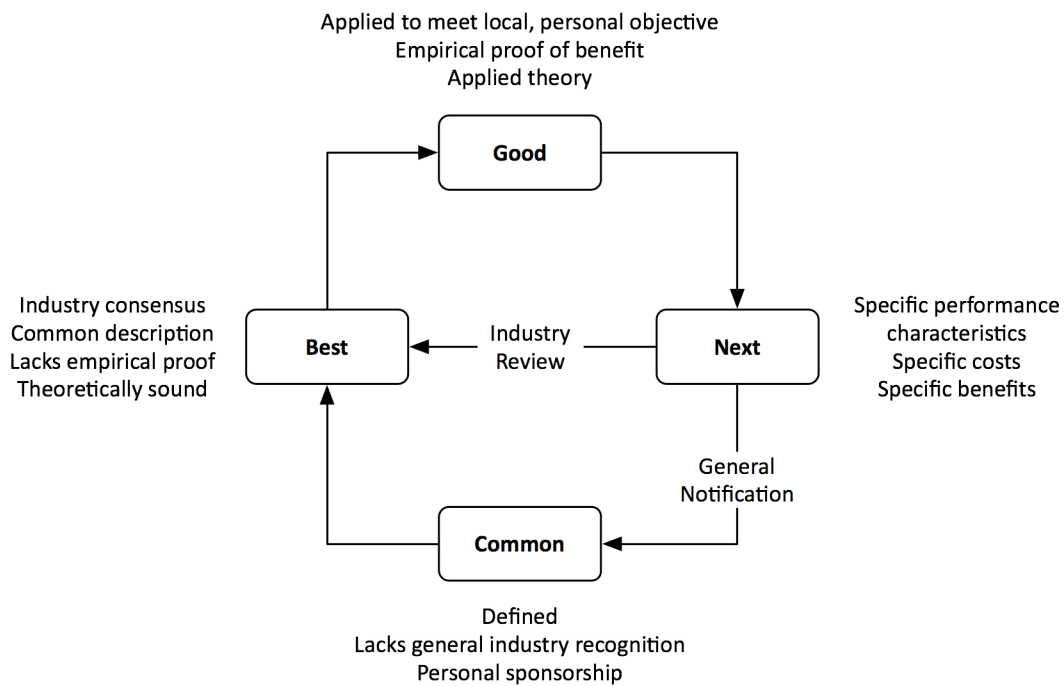


Figure 1: The Practice Lifecycle

Once stabilized, socialized and its benefits realized and stated, a good practice is available for innovation and the foundation for your *NEXT* practice.

The definition of common, best, and good practices requires a consistent definition of the processes, activities, roles and responsibilities used within a body of knowledge. The USMBOK offers such a definition for service management and enables the further definition of common, best and good practices.

USMBOK Best Practice Statements (BPS)

Throughout the USMBOK™ ‘best practice statements (BPS)’ are provided as additional guidance on areas where special attention will be required by the reader when considering the topic being discussed, as part of

designing an overall service management strategy. These BPSs are prefixed by the mnemonic USMBOK and are occasionally presented in the form of a bulleted list at the end of each relevant topic.

The USMBOK BPSs are sequentially numbered and the numbering sequence may change in subsequent editions. The BPSs offered in this publication are not ‘rules’ or best practices that *must* be followed, they are guidance to be considered and perhaps evolved into a meaningful and valuable policy used by you the reader, or within a service management related initiative or strategy, or even ‘good practices’.

P A R T T W O

The Service Management Areas of Expertise

Overview of the Service Management Areas of Expertise

Although much of the knowledge, tools, techniques, and methods used for managing services are unique to service management, a number of generally recognized 'areas of expertise' are required to ensure a successful strategy and operation. Effective and efficient service management demands the service management organization, team and professional, understand and use knowledge and skills from the following areas of expertise:

- The Universal Service Management Body of Knowledge;
- Standards and regulations knowledge;
- Related bodies of knowledge;
- The service environment knowledge;
- General management knowledge and skills;
- Interpersonal skills.

It is unlikely that any single person will have all the knowledge and skills required, and as service management strategy is best designed, implemented, and sustained by a team of discrete roles and responsibilities that respect the need for a closer relationship with the customer, the greater the need for 'soft', interpersonal skills. The closer the role to the service infrastructure the more the need for technology based skills.

The following diagram illustrates that there are overlaps and that no area of expertise can operate alone. Effective service management requires an integrated approach and encourages their integration to reflect the many aspects of providing services.

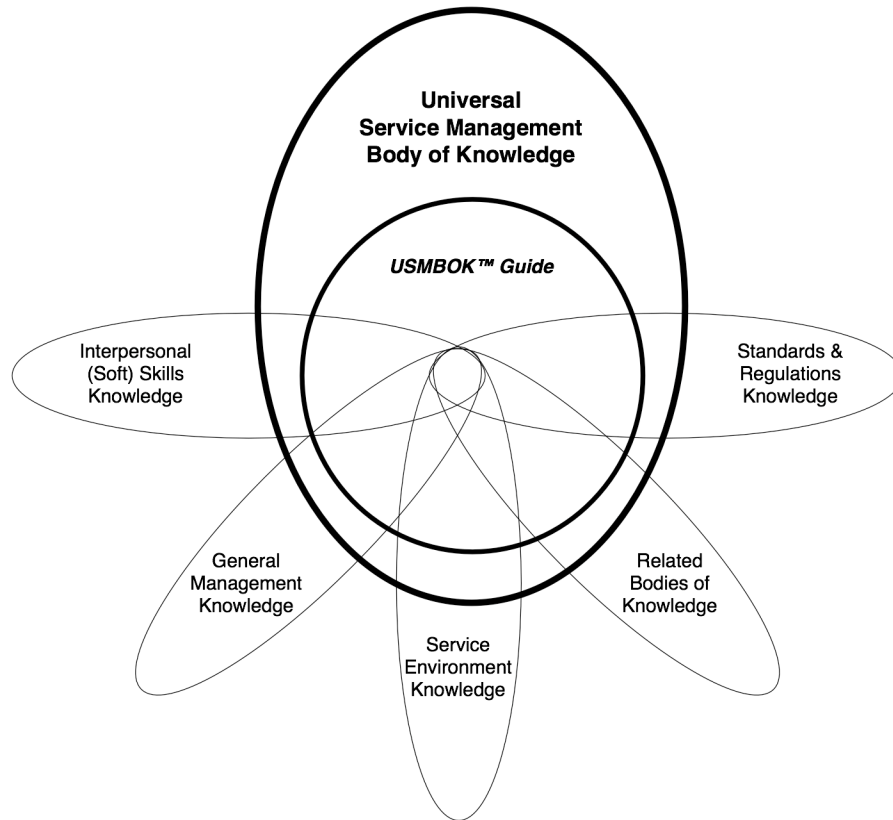


Figure 2: Service Management Areas of Expertise

Universal Service Management Body of Knowledge

The Universal Service Management Body of Knowledge describes the methods, expertise, knowledge and competencies unique to service management. The USMBOK includes:

- The lifecycle of a service from the original statement of needs from the prospective client to the eventual retirement of the service;
- The elements of a successful service system and service provider organization;
- The ‘domains of responsibility’, or knowledge domains required to support a successful service provider organization, representing the key job roles;
- The more important competencies or ‘knowledge areas’ required within each knowledge domain.

Standards & Regulations Knowledge Area

A standard is a voluntary norm or requirement, usually in the form of a document specifying uniform criteria, used as a basis for comparison. A standard can be developed privately, for example through consensus by the employees of a corporation or professional members of a trade association, or unilaterally, by a standards organization.

When a comparison is performed it often takes the form of an ‘audit’ by a third-party that has no direct interest, or benefit, in the results. The audit provides a ‘pass/fail’ result, with perhaps a conditional pass requiring some remedial action to be completed within a specified time period. A standard is generally the minimum acceptable level, and does not represent the very best that can be achieved.

Commonly, standards are developed and managed by governing bodies that span national and international boundaries and include the International Standards Organization (ISO) and their country level equivalent, in the case of the United States, the American National Standards Institute (ANSI)®.

A regulation is a government-imposed requirement with which compliance is mandatory, such as a law. Regulations override the aspirations of the enterprise and its customers. Regulations should not be confused with standards. Standards are voluntary and not legally enforceable. They may be adopted industry wide to the same effect as a regulation.

A service management professional must remain vigilant and aware of all service management related standards and regulations and ensure that any strategy they involve in the design, implementation, or fulfillment of, specifically describes and references them in detail.

Related Bodies of Knowledge Area

One of the greatest challenges of describing a body of knowledge (BOK) is recognizing, understanding, and defining its boundaries and other bodies of knowledge to which it is most closely related. The service management BOK is especially challenging due to its potential scope of operation and that it requires the assistance of, and represents the end product of, many other BOKs. Some related BOKs include, but are not limited to:

- The Project Management BOK (PMBOK®), maintained by the Project Management Institute®;
- The Software Engineering BOK (SWEBOOK®), maintained by the Institute of Electrical and Electronics Engineers (IEEE);
- The Manager of Quality/Organizational Excellence Body of Knowledge maintained by the American Society of Quality (ASQ);
- The Enterprise Architecture Body of Knowledge (EABOK) maintained by the MITRE Corporation;
- The Professional Practices for Business Continuity Planners ‘Common Body of Knowledge’ developed and maintained by DRI®, the Institute for Continuity Management;

- The Business Analysis Body of Knowledge™ (IIBABOK) maintained by the International Institute of Business Analysis.

Service Environment Knowledge Area

It is extremely rare for a service management strategy to be implemented without a cultural, social, organizational, economic, or environmental impact, each should be considered and a statement included in the overall service management strategic plan.

Cultural and Social Impact

A service management strategy will have a cultural affect upon an organization, proportional to the degree to which they have previously operated as a ‘service provider organization’. The crux of the affect is typically focused on the difference between operating and managing the infrastructure delivering and supporting the service, as compared with the customer experience using the service.

The professionals in a service management team need to understand how they affect the strategy and overall project, and the affect upon persons external to the team. The affect may include ethical and ethnic characteristics and the extent to which the strategy is recognized as having value and is operating with accountability and authority.

Organizational Impact

A service management strategy will have an affect upon the political or decision-making makeup (governance) of an organization, again as the focus shifts to the customer use of services. The organizational impact may also include international factors such as time zones, national holidays, religious beliefs, and existing management reporting structures.

Economic Impact

A service management strategy will be visibly more expensive to sustain than one that is focused on infrastructure management. When managing infrastructure many of the actual costs remain hidden as ‘shadow costs’. The cost of providing a service does not change as a result of adopting a service management strategy, it becomes more visible and with that comes the impression of greater cost.

A core goal of a service management strategy is to gain visibility over the true cost of providing service, so this should be an expected result. The service management professional should be able to offset the perceived cost of service management against the actual benefit.

Physical Environment

A service management strategy will affect the physical environment. It will consume additional resources and will change the way infrastructure and resources are managed, perhaps even referenced. Once again the service management professional must be competent in skills that help understand, define, and manage the impact upon physical aspects of the environment.

General Management Knowledge Area

The 'General Management' knowledge area encompasses a vast and various set of competencies that address the organization, staffing, execution, and management control of a service management initiative and service provider organization. It includes competencies and disciplines such as:

- Contract management and legal administration;
- Business, strategic, and operational planning and administration;
- Organizational change management, human resource management, and personnel administration;
- Financial management and accounting;
- Logistics and supply chain management;
- Customer relationship management;
- Manufacturing and distribution;
- Operations management and sales and marketing;
- Purchasing, procurement, and inventory management;
- Health and safety practices.

One or more General Management skills are fundamental to the required competencies of any service management professional performing a managerial or supervisory role. It is common for the number of skills and competencies in each to be proportional to the level of managerial responsibility.

Interpersonal Skills Knowledge Area

Service management requires some level of interpersonal skills as it directly affects a variety of different organizational perspectives spanning the end-customer, business, service provider, operations, and infrastructure management audiences and relationships. The interpersonal skills include:

- **Effective Communication.** The ability to concisely and powerfully communicate both verbally and in writing to differing audiences in language and meaning understandable by each audience;
- **Leadership.** The ability to define a vision, mission, and strategy for achieving the objectives of the organization;
- **Negotiation and Conflict Resolution.** The ability to provide a neutral means by which parties of differing opinions can discuss and mutually recognize and understand the perspectives of the other parties, with the possibility of a mutually agreed consensus and resolution to a defined problem;
- **Facilitation.** The ability to host and progress meetings without overtly influencing the end results by enabling peer-based discussion, analysis, problem solving, and consensus;
- **Inspirational.** The ability to influence and motivate the organization or individuals through a combination of interpersonal skills and leading by example through results-based performance that includes visible, personal objectives;

Program and Project Management Context

The implementation of a service management initiative is a significant undertaking for any enterprise. It makes sense to attempt service management in stages, perhaps as a series of related projects, each targeting a set of objectives and benefits completed over a specific period of time. The Project Management Institute (PMI) defines a program as “*a group of related projects managed in a coordinated way to obtain benefits and control not available from managing them individually*”.

PMI continues by explaining that a program may include elements of work outside the scope of the discrete projects and need not have a definitive end, as a project should. Programs involve a series of repetitive or cyclic activities centrally coordinated to achieve a set of strategic objectives. So it is fair to say that a service management initiative can be termed a service management program (SMP) rather than a project, and that a SMP can consist of multiple service management ‘projects’.

Service Management Subprojects

Valuable guidance is offered by PMI when considering the organization of a service management program. PMI explains that a project may be divided into more manageable components of ‘subprojects’, with the recognition that each may be managed according to project management principles. The need to use subprojects may result from a number of reasons, including:

- Each project is targeting a specific problem or problem area;
- A portion of the overall project may need to be contracted out to a third-party or organizational unit that is beyond the management jurisdiction of the service management team;
- There is a need to micro-manage the achievement of specific deliverables or results from a single phase;
- There is a requirement for specialized skills or technology; the need might also result in a potential resource scheduling conflict or delay and the project prefers to isolate and insulate itself from these aspects.

The Service Management Program Office (SMPO)

A service management program office (SMPO) oversees, coordinates, and manages multiple projects related to the implementation and operation of a specific service management strategy. In fact, the SMPO could perform this function across multiple strategies spanning many discrete service provider organizations.

The SMPO is the ultimate decision-making authority and can delegate differing levels of responsibility to each project as part of a documented governance framework, along with the singular responsibility for the achievement of the service management program's desired results.

The SMPO should also operate as a 'Center of Excellence (COE)' style organization, able to respond to requests for service management related industry trends, general advice, information, and good practice knowledge.

The organization of an SMPO should include service management professionals that represent and are regarded as the advocates of four key perspectives:

- The Business or customer of the service;
- The service organization or service provider management;
- Service operations;
- Service infrastructure management.

These four perspectives are to be seen in the structure of the Knowledge Domains discussed later in this Guide.

THIS PAGE IS LEFT INTENTIONALLY BLANK.

P A R T T H R E E

Principles of Service Management

C H A P T E R S I X T E E N

USMBOK Extensions**The Need for Extensions**

Even though the Guide has gone through an elaborate development and review process, the following limitations should be recognized and stated:

- Service Management is an emerging profession when compared with other more established disciplines. The boundaries between knowledge domains (roles) and knowledge areas (competencies) of service management and other related disciplines remain a matter for continued discussion;
- Service management continues to be infused with new concepts and practices and evolutionary change is constantly happening and expected to positively affect this Guide through newer editions. The hardcopy version of the Guide will be updated frequently, probably annually, and require an electronic component updated more frequently, to remain relevant;
- The amount of literature published on service management related topics is considerable and the reference materials and concepts included in this Guide should not always be seen as definitive except for its use to gain stated credentials. References used were selected because they are written and readily available in English. It is likely that important and highly relevant reference material written in languages other than English have been overlooked and omitted.

The contents of this Guide must be viewed as an “informed and reasonable” characterization of the Universal Service Management Body of Knowledge, and a foundation for all discussions as to extension and its future evolution. This Guide will always be a subset of the overall USMBOK and contain omissions, perhaps errors, and in some cases missing references to valuable sources of information.

This Guide will be reviewed regularly and new editions published in line with the needs of the continuing education program. To ensure the larger USMBOK will remain current and relevant with industry trends we introduce the concept of an authorized ‘*extension*’, an add-on that has been approved by an appointed governing body. An extension allows the USMBOK to be rapidly expanded as required or upon a new discovery or contribution. Service management professionals can review the extension while it is a ‘request’ status and comment on its relevance, importance, and value. An assigned governing body shall have the final vote for, or veto against inclusion.

Types of Extensions

An extension may be in almost any electronically published form and include:

- A book, a website page or pages;
- A white paper or personally penned article;
- A periodical.

Criteria for an Extension

The key criteria for an extension is that:

- Permission has been obtained for it to be referenced in the form of a signed ‘release form’;
- The item can be referenced ‘permanently’, or a copy retained at the USMBOK website;
- It is relevant to the existing USMBOK topics, or service management in general and represents a new topic area currently missing from the USMBOK;
- A person is available as the primary contact for questions on the subject matter of the extension;
- A detailed mapping has been completed by the submitter (sponsor), explaining how the extension is relevant to the USMBOK.

The Extension Request Process

Anyone, regardless of his or her corporate affiliation or level of experience, is able through the extension program, to develop, discover, or remind us all that there is additional, important and relevant information that is a candidate to be added to the USMBOK. Using a simple process, the information may be submitted for review and consideration. The only requirement is that the submitter has taken the time to carefully map the extension to the existing USMBOK topics, and has included a ‘position statement’ explaining why they feel it is relevant.

The extension request should be accompanied by a signed ‘copyright release form’. The request will be reviewed and observations and comments sent directly to the submitter. Upon approval, the USMBOK website will be updated with the position statement and direct references to the information source. No intellectual capital or property rights will be transferred, nor is any required to be transferred at a future date and time. All extensions remain the property of their creator. The only requirement is that the sponsor of the extension is able to offer a perpetual right to publish as part of the USMBOK.

A P P E N D I C E S

Appendices

A P P E N D I X : A

BIBLIOGRAPHY

The following publications were used as information sources in the development of this reference guide:

- | | |
|------------------------|---|
| ISBN 0-399-55000-3 | The Deming Management Method, Mary Walton |
| ISBN 0-684-84146-0 | Competitive Advantage, Michael E. Porter |
| ISBN 0-7382-0105-7 | Product Development: Service Sector, Cooper, Edgett |
| ISBN 0-02-861953-6 | Great Customer Service, Karr, Blohowiak |
| ISBN 0-07-247146-8 | Product Design & Development, Ulrich & Eppinger |
| ISBN 0-684-83256-9 | The Service Profit Chain, Heskett, Sasser & Schlesinger |
| ISBN 0-020861489-5 | The Complete Idiot's Guide™ to New Product Development, Edwin E. Bobrow |
| ISBN 1-931332-22-3 | Business Continuity: Best Practices, Andrew Hiles, FBCI |
| ISBN 0-201-63383-3 | Design & Management of Service Processes, Ramasawamy |
| ISBN 0-471-64409-8 | Customer Relationship Management, Stanley A. Brown |
| ISBN 1-59139-253-5 | IT Governance, Dr. Peter Weill |
| ISBN 978-0-87389-666-5 | The ASQ Auditing Handbook Third Edition, ASQ Audit Division, Editor J.P. Russell |
| ISBN 0-7506-6785-0 | ISO 9000 Quality Systems Handbook, David Hoyle |
| ISBN 0-13-614314-8 | Information Technology Audit Handbook, Douglas Dayton |
| ISBN 0-07-026774-X | High Performance Benchmarking, H. James Harrington |
| ISBN 0-527-76305-5 | Quality Assessment for Healthcare, Ned Barber Ph. D. |
| ISBN 0-7879-5272-9 | Performance Scorecards, Richard Y. Chang |
| ISBN 0-471-29559-0 | Make Success Measurable, Smith |
| ISBN 0-13-947870-1 | Information Systems Control & Audit, Ron Weber |
| ISBN 0-07-141376-6 | Design for Six Sigma, Greg Brue |
| ISBN 0-07-222578-5 | CISSP® Certification Passport (Security Management), Mike Meyers |
| ISBN 1-933703-20-2 | Service Incident Management, Ian M. Clayton |
| ISBN 0-201-61545-2 | Operations Management Strategy & Analysis, Lee J. Krajewski, Larry P. Ritzman |
| ISBN 0-471-64232-0 | Breakthrough Customer Service, Stanley A. Brown |
| ISBN 0-8129-3037-1 | Customer.com, Patricia Seybold |
| ISBN 0-07-021760-2 | Service Management Operations, Strategy & IT, Fitzsimmons |
| ISBN 0-02-911045-9 | Managing Customer Value, Bradley T. Gale |
| ISBN 0-87584-788-9 | Cost & Effect, Robert S. Kaplan |
| ISBN 0-201-76737-6 | Building Operational Excellence, Bruce Allen & Dale Kutnick |
| ISBN 0-8144-7053-X | The Cost Management Toolbox, Lianabel Oliver |
| ISBN 0-02-912651-7 | Strategic Cost Management, John K. Shank & Vijay Govindarajan |
| ISBN 0-471-97599-0 | CFO Architect of the Corporations Future, PricewaterhouseCoopers Financial & Cost Management Team |

ISBN 0-527-76304-7	Value-Based Cost Management for Healthcare, Kicab Castaneda-Mendez
ISBN 0-273-64943-4	Taking Control of IT Costs, Sebastian Noakes
ISBN 0-07-137314-4	The Six Sigma Way team Fieldbook, Peter P. Pande, Robert P. Neuman, Roland R. Cavanagh
ISBN 0-201-72184-8	Configuration Management Principles and Practices, Anne Mette Jonassen Hass
ISBN 0-7356-1879-8	Software Requirements, Karl E. Wiegers
ISBN 0-527-76326-8	The Root Cause Analysis handbook, Max Ammerman
ISBN 978-1-9330885-50-9	ADKAR – A Model for Change in Business, Government & our Community, Jeffrey M. Hiatt
ISBN 0-627-2317435	Foundations of Service Level Management, Rick Sturm, Wayne Morris, Mary Jander
ISBN 0-07-141821-0	Lean Six Sigma for Service, Michael L. George
ISBN 1-55850-858-9	Strategic Planning for the Small Business, Craig S. Rice
ISBN 0-87584-651-3	The Balanced Scorecard, Robert S. Kaplan and David P. Norton
ISBN 1-59139-134-2	Strategy Maps, Robert S. Kaplan and David P. Norton
ISBN 0-9764832-7-0	Measuring the Business Value of Information technology, David Sward
ISBN 0-7494-4087-2	Making Sense of Change Management, Esther Cameron and Mike Green
ISBN 0-273-63049-0	Logistics and Supply Chain Management, Martin Christopher
ISBN 0-911379-01-0	Out of the Crisis, W. Edwards Deming
ISBN 0-07-144893-4	The Toyota Way Fieldbook, Jeffrey K. Liker and David Meier
ISBN 0-88427-166-8	Theory of Constraints, Eliyahu M. Goldratt
LCGN 65-21586	The Rational Manager, Charles H. Kepner, Benjamin B. Tregoe
LCGN 65-18724	Planning and Control Systems – A Framework for Analysis, Robert N. Anthony
ISBN 1-880410-14-1	Value Management Practice, Michael Thiry
ISBN 0-13-636564-7	Software Release Methodology, Michael E. Bays
ISBN 0-486-65232-7	Statistical Method from the Viewpoint of Quality Control, Walter A. Shewhart
ISBN 978-0-470-02862-9	Service Management and Marketing, Christian Gronroos
ISBN 0-13-081338-9	Service Management and operations, Haksever, Render, Russell, Murdick
ISBN 978-0-521-60651	Managing Services, Alan Nankervis
ISBN 978-1-56286-330-2	Customer Service Training, Maxine Kamin
ISBN 978-0-8144-7290-3	Customer Service Training 101, Renee Evenson

 T H E E N D

Index

- 4Ps of Marketing*, 285
- ADKAR Cycle*, 402
- Alignment Models*, 36
- Application*
 - Defined, 387
- Application Development Environment*, 389
- Application Development Lifecycle*, 389
- Application Management System*, 389
- Application Software*
 - Types, 388
- Approve*
 - Stage, 145
- Assessment*, 311
 - Planning, 315
 - Scoping, 314
- Assessment versus Audit*, 179
- Asset*
 - Agreement Management, 328
 - Defined, 227
 - Discovery, 326
 - Reconciliation, 326
 - Tracking, 327
 - Transfer, 197
 - Zone, 330
- Asset Pool*, 326
- Assignable Square Feet*, 385
- Assure*
 - Stage, 161
- Asymmetric Information*, 51
- Audit*, 311
 - Considerations, 317
 - Planning, 318
 - Scoping, 317
- Audit versus Assessment*, 179
- Availability Management*, 350
 - Major Activities, 354
- Availability Models*, 352
- Baseline*
 - Service Design, 152
- Best Practice*
 - Defined, 3
- Blueprint*
 - transform to Charter, 146
- Body of Knowledge*
 - Defined, 1
- BOK*
 - Defined, 1
- Budget Model*, 420
- Budgeting*, 418
- Business Continuity Management*, 270
 - Pyramid, 270
- Business Continuity Plan*, 274
- Business Impact Analysis*, 274
- Business Planning Cascade*, 75
- Business Planning Framework*
 - 3-Layers, 71
 - 7-Tiers, 70
 - Business Layer, 74

- Corporate layer, 71
- Implementation & Operation Layer, 75
- Introduction, 70
- Capability*
 - Practice Assessment, 307
- Capability Level*, 305
- Capability Management*, 303
- Capability Model*, 303
- Capability Scoring*, 306
- Capacity Classifications*, 339
- Capacity Competence*, 341
- Capacity Database*, 343
- Capacity Measurements*, 343
- Capacity Plan*, 344
- Capacity Request*, 342
- Capacity Review Board*, 343
- Capital Investment Analysis*, 419
- Catalog Family*, 96
- Cause and Effect Diagram*, 378
- Center of Excellence (COE)*, 15
- Change*. *See Service Change*
 - Defined, 401
 - Origins, 403
 - Pre-Approved, 406
 - Six-Step Cycle, 407
 - Sources, 401
 - Standard or Model, 406
- Change Management*. *See Service Change Management*
- Change Review Board*, 403, 411
- Change Review Board for High Risk*, 403
- Change Schedule*, 406
- Change Slot*, 406
- Charter*
 - Mission, 73
- Charter Statement*, 72
 - Example, 73
- CMDB*, 395
 - Virtual, 397
- Commission*
 - Stage, 171
- Compliance Officer*, 256
- Component*, 393
 - Component Failure Impact Analysis*
 - Design Stage, 152
 - Origins, 352
 - Concept*
 - Classification Tree, 140
 - Combination Table, 141
 - Model, 141
 - Rank and Score, 141
 - Screening, 141
 - Concept Generation*, 140
 - Configuration Baseline*, 396
 - Configuration Control Board*, 397
 - Configuration Item*, 392
 - Assembly, 396
 - Attribute, 396
 - Lifecycle, 395
 - Product, 396
 - Relationship, 394
 - Sponsorship, 392
 - Variant, 396
 - Configuration Management*, 391
 - Major Activities, 399
 - Standards, 392
 - Configuration Plan*, 398
 - Constraint Requirement*, 280
 - Continuity Management*
 - Six Stages, 272
 - Continuity Pyramid*, 346
 - Continuous Improvement*, 434
 - History, 434
 - Principles, 436
 - Pyramid, 442
 - Continuous Service Improvement Program*, 436
 - Contract*
 - Operations, 53
 - Contracts*, 52
 - Service, 52
 - Supplier, 53
 - Control Barrier Analysis*, 375
 - Conversion Plan*, 137
 - Core Capabilities*, 40
 - Cost Accounting*, 419

- Cost Model*, 420
- Cost of Release*, 414
- Cost of Capacity*, 341
- Cost of Outage*, 353
- Cost Recovery*, 420
- Countermeasure Strategy*, 275
- CRB*. *See* *Change Review*
- Critical Component Failure Analysis*, 274
- Customer*
 - Subscribed, 266
 - Subscription Request, 266
 - Unsubscribed, 266
- Customer Architecture*, 40
- Customer Community Management*, 267
- Customer Continuity Management*, 270
- Customer Interface Management*, 268
- Customer Interview Process*, 268
- Customer Lifecycle*
 - Overview, 266
- Customer Model*, 39
- Customer Relationship*
 - Desired, 39
- Customer Relationship Management*, 265
- Data Analysis*, 310
- Data Center Automation*, 391
- Data Collection*, 310
- Decision/Event Tree*, 378
- Define*
 - Stage, 127
- Demand Management*
 - Defined, 343
- Demand Plan*
 - Defined, 90, 137
- Deming Cycle*, 435
- Design*
 - Baseline, 152
 - Performance Specification, 150
 - Release Strategy, 152
 - Service Architecture, 150
 - Service Support, 151
 - Stage, 149
 - Test Plan, 152
- Develop*
 - Major Stage Activities, 156
 - Stage, 155
- Distribution Channel*, 39
- Document Controls*
 - Defined, 128
- Energy Usage*, 386
- Enterprise Model*, 37
 - Locations, 37
 - Organizations, 37
 - Persons, 38
 - Regulations, 38
 - Roles, 38
 - Schema, 328
- Entity Capacity*, 340
- Environmental Zone*, 384
- Equation*
 - Expectation, 46
 - Quality, 47
 - Value, 46
- Escalation and Notification*, 361
- Escalation Rule*, 361
- Event*, 214
- Event Management*, 390
- Excellence Dilemma*, 301
- Excellent Support Equation*, 362
- Excluded Area*, 385
- Expectation Equation*, 46
- Extension*
 - Criteria, 452
 - Request Process, 452
 - Type, 452
- Facilities Management*, 383
 - ASTM E1836-01 Standard, 385
- Facility*, 178, 383
- Failure Mode Effect Analysis*, 377
 - Design Stage, 152
- Fault Tree Analysis*, 376
- Feasibility Statement*
 - Defined, 120
- Feasibility Study*, 118
- Federated CMDB*, 395

Financial Management of Services, 418
 Major Activities, 421
Fit-for-Purpose Testing, 413
Five Whys, 376
Forecasting, 344
Fulfillment-Operations Bridge, 321
Functional Requirement, 280
Good Practice, 4
Goods-Service
 Continuum, 21
Governance
 38500 Standard, 257
 Principles, 258
 Ten Key Principles, 253
Governance Framework
 Example, 254
 Key Roles, 255
 Overview, 252
 Principles, 254
Holistic
 Defined, 57
Holistic Service Management, 57
 Elements for Success, 60
 Introduction, 57
 Spheres of influence, 58
Idle Capacity, 339
Impact, 367
 Aggregation, 381
 Defined, 101
 Neutral, 381
Impact Statement, 375
Implementation Plan
 Service Rollout, 158
Incident Lifecycle, 367
Incidents
 Relationship with Problems, 114
Information Asymmetry, 51
Infrastructure Risk Statement, 152
ISO 27000
 Overview, 336
ISO/IEC 17799, 335
Issue Statement, 120
ITSM, 55
 Common Mission, 432
 Premise, 55
 Purpose, 55
Key Performance Indicators (KPI), 79
Key Performance Targets, 80
Key Result Area (KRA), 78
Knowledge Areas, 247
 Introduction, 251
Knowledge Domains, 247
Knowledge Management, 360, 444
KRA, KPI, KPT Relationship, 81
Last Known Working Configuration, 353
LEAN
 Origin, 431
 Relationship to PDCA, 440
 Relationship to Six Sigma, 440
Lean Thinking, 431
Lifecycle
 Defined, 109
 Stages, 110
Maintain
 Major Stage Activities, 185
 Stage, 183
Maintenance
 Adaptive, 184
 Categories, 184
 Classification, 184
 Corrective, 184
 Federated Strategy, 186
 History, 185
 Knowledge Base, 185
 Perfective, 185
 Perfective, reasons for, 190
 Preventative, 184
 Reasons for, 184
 Schedule, 185
Maintenance Standards, 128
Maximum Allowable Outage, 274, 275
McKinsey 7-S Model, 311
Mean Time Between Failure, 350
Mean Time To Rrestore, 350

- Metadata*, 393
- Misalignment*
 - Symptoms, 53
- Model Operations Contract*, 323
- Moderated Alert*, 214
- Moderated Alerts*, 216
- Moment of Truth*, 28
- Move-Add-Change-Delete*, 390
- Non-functional Requirement*, 280
- Non-productive Capacity*, 339
- Non-Value Add*, 429
- Operate*
 - Major Stage Activities, 178
 - Stage, 177
- Operational Capacity*, 340
- Operational Procedures*, 157
- Operations Contract*, 53
- Operations Governance Framework*, 213
- Operations Level Management*, 363
- Opportunity*, 295
 - Stage, 117
- Opportunity Statement*, 295
- Organizational Change Management*, 407
- Organizational Impact*, 129
- Perfective Maintenance*
 - Benefits, 190
- Performance*
 - Controls, 309
 - Domain, 309
 - Indicators, 310
 - Rated, 310
 - Target, 309
 - Weighting, 309
- Performance Appraisal*, 310
- Performance Architecture*, 40
- Performance Gap*, 310
- Performance Management*, 308
- Performance Management Framework*
 - 7-Tiers, 78
 - Defined, 77
- Performance Plan*, 310
- Plan*
 - Stage, 133
- Plan-Do-Check-Act*, 434
- Platform Independent Model*, 150
- Platform Specific Model*, 150
- Policy*
 - Defined, 261
 - Types, 261
- Policy Management*, 261
- Portfolio*
 - Defined, 263
- Portfolio Management*, 263
- Post-Transaction*, 27
- Practice*
 - Best, 3
 - Common, 3
 - Defined, 3
 - Good, 3
 - Lifecycle, 4
- Preferred Pricing Scheme*, 292
- Preferred Vendor List*, 292
- Preliminary Service Project Plan*
 - Defined, 137
- Pre-Transaction*, 26
- Pricing Model*, 420
- Priority*, 367
- Problem Management*, 373
 - Major Activities, 379
 - Six Step Cycle, 374
- Problem Statement*, 374
- Problem/Change Cycle*, 404
- Process Excellence Dilemma*, 301
- Process Improvement*
 - Irrelevance, 432
- Product*, 32
 - Generations, 22
- Product (Marketing) Mix*, 33
- Product Depth*, 33
- Product Item*, 32
- Product Lifecycle*
 - Defined, 33
 - Stages, 34
- Product Line*, 32

Product Management, 32
Product Marketing 4Ps, 35
Product Width, 33
Productive Capacity, 339
Protection Rings, 333
Provider
 Defined, 365
Provider Governance Framework, 293
Provider Performance Management Framework, 292
Provider Relationship Management, 291
Quality
 Characteristics, 47
 Defined, 47, 161, 296
 Hidden Cost of Support, 50
 Management Methods, 48
Quality Action, 298
Quality Assurance
 Defined, 311
Quality Element, 299
Quality Equation, 47
Quality Measure, 299
Quality of Service (QoS), 25
Quality Planning Framework, 299
Rated Capacity, 339
Readiness Review, 159
Recover, 353
Recovery Point Objective, 274
Recovery Time Objective, 274
Recovery Time Objectives
 Recovery component, 355
Regulatory Compliance, Types, 163
Relationship Plan
 Defined, 89
Release. See Service Release
 Defined, 412
 Six Step Cycle, 415
 Types, 413
Release Build, 413
Release Management
 Process, 416
Release Schedule, 413
Release Units, 412
Report Catalog, 181, 286, 323
Request For Proposal, 365
Require
 Stage, 121
Requirement. See Service Requirement
 Type, 280
Requirement Attribute Matrix, 281
Requirement Catalog, 122
Requirement Errors, 201
Requirement Lifecycle
 Stages, 201
Requirement Plan, 201, 281
 Defined, 89
Requirement Responsibility Matrix
 Defined, 125
Requirements Management, 278
 Benefits, 278
 Major Activities, 280
Resolve, 353
Restore, 353
Retire
 Major Stage Activities, 196
 Stage, 195
Revise
 Stage, 189
Risk Management, 276
 Continuous, 277
Risk Priority Number, 377
Risk Statement, 120
Rollout Planning, 414
Safeguard, 277
Satisfaction survey, 180
SCARI Chart
 Defined, 256
 Example, 257
Security CIA triad, 332
Security Controls, 334
Security Management, 331
Service
 Characteristics, 23
 Classification, 21
 Deactivate, 196, 197

- Defined, 20
- Example Description, 20
- Legal Definition, 19
- Transaction-based, 25
- Service Maintained*, 187
- Service Access Point*
 - Define, 130
 - Defined, 67
 - Design, 151
- Service Access Points*
 - Deactivate, 196
- Service Acquisition*, 210
- Service Alignment*, 36
- Service Application Management*, 387
- Service approval*, 145
- Service Asset*, 325
- Service Asset Lifecycle*, 227
 - Six Step Cycle, 227
- Service Asset Management*, 324
 - Major Activities, 327
- Service Asset Register*, 225
- Service Assurance Certificate*, 165
- Service Blueprint*, 142
- Service Calendar*
 - Defined, 66
 - Overview, 99
- Service Capacity Management*, 337
- Service Capacity Model*, 340
- Service Capacity Plan*
 - Commission Stage Output, 175
- Service Catalog*, 96, 104
 - Actionable, 98
 - Defined, 66
 - Purpose, 96
 - Schema, 97
- Service Certificate*. *See Service Assurance Certificate*
- Service Change*
 - Defined, 229
 - Six Step Cycle, 229
- Service Change Management*, 401
 - Major Activities, 409
- Service Charter*
 - Defined, 145
- Service Commission*
 - Defined, 67
- Service Commission Report*, 175
- Service Concept*
 - Defined, 139
 - Stage, 139
- Service Configuration Tree*, 225
- Service Continuance Statement*, 198
- Service Continuity Management*, 345
 - Major Activities, 349
 - Six Major Stages, 347
- Service Continuum*, 66
- Service Contract*, 52
- Service Cost Index*, 233
- Service Customer Management*, 252
- Service Delivery Management*, 320
- Service design*, 149
- Service Development Plan*
 - Purpose, 154
- Service Driven Pathway*, 450
- Service Element*
 - Defined, 66
 - Retrieval Plan, 197
- Service Elements*, 156
- Service Encounter*, 28
- Service Equations*, 46
- Service Event Lifecycle*, 214
- Service Excellence*, 300
- Service Excellence Framework*, 302
- Service Exception Report*, 323
- Service Experience*, 28
- Service Finance Model*
 - Defined, 67
- Service Fulfilled*, 181
- Service Fulfillment Management*, 283
- Service Fulfillment Plan*
 - Defined, 91
 - Elements, 92
- Service Governance Framework*
 - Defined, 66, 88
 - Introduction, 449

Service Guarantee, 66

Service Impact

- Defined, 380

Service Impact Analysis, 349

Service Impact Management, 380

Service Impact Statements, 381

- Defined, 216

Service Incident Management, 219, 366

- Introduction, 366
- Major Activities, 368

Service Infrastructure Domain, 391

Service Infrastructure Event, 85

Service Infrastructure Management, 383

Service Inseparability, 24

Service Instance, 170

- Defined, 67

Service Intangibility, 23

Service Knowledge Management, 444

Service Level Indicator, 84

- Defined, 216

Service Level Indicator, 214

Service Level Management, 320

- Major Activities, 322

Service Level Objective

- Classification Scheme, 66
- Defined, 83

Service Level Reporting, 322

Service Level Review, 324

Service Level Statements, 323

Service Lifecycle

- Approve Stage, 145
- Assure Stage, 161
- Commission Stage, 171
- Concept Stage, 139
- Critical Artifacts, 199
- Define Stage, 127
- Defined, 66, 111
- Deploy Stage, 167
- Design Stage, 149
- Develop Stage, 155
- Maintain Stage, 183
- Operate Stage, 177
- Opportunity Stage, 117
- Plan Stage, 133
- Require Stage, 121
- Retire Stage, 195
- Revise Stage, 189
- Stages, 111

Service Lifecycle Costs, 108

Service Lifecycle Management, 302

Service Management

- Areas of Expertise, 9
- Defined, 32
- Golden Rules, 56
- Program Office, 15

Service Management Framework, 65

Service Marketing, 283

Service Model

- Defined, 42
- Designing, 44
- Global, 43
- Local, 43
- Regional, 43
- Types, 43

Service Offering, 66, 164

Service Operational Procedures, 170

Service Operations Knowledge Base, 170

Service Operations Lifecycle, 212

Service Operations Management, 359

Service Opportunity Board, 209

Service Order

- Defined, 67, 131

Service Organization, 237

Service Outage Review, 323

Service Performance Framework, 232

- Defined, 68

Service Perishability, 24

Service Plan

- Defined, 66
- Introduction, 93

Service Planning, 287

- Process, 88, 288
- Waterfall, 89

Service Planning-Marketing Continuum, 286

- Service Portfolio, 94*
 - Introduction, 94
 - Relationship to Service Fulfillment Plan, 95
- Service Priority Matrix, 101*
- Service Priority Scheme, 100*
 - Defined, 67
- Service Problem Management, 219*
- Service Provider Organization, 237*
- Service Provision Lifecycle*
 - Defined, 67
 - Stages, 209
- Service Provision Management, 289*
- Service Quality Index, 232*
- Service Quality Lifecycle, 105*
- Service Quality Management, 296*
 - Mapped to PDCA, 296
- Service Quality Plan, 131, 299*
- Service Quality Planning, 297*
- Service Realized, 175*
 - Defined, 67
- Service Release, 224*
 - Contents, 224
 - Six-Step Cycle, 224
- Service Release Definition, 192*
- Service Release Management, 412*
- Service Release Overview, 192*
- Service Request, 67*
 - Common Lifecycle Stages, 206
 - Defined, 293
 - Lifecycle, 205
 - Sources, 113
 - Standard, 205, 293
 - Types, 205
- Service Request Lifecycle*
 - Activities, 204
- Service Request Management, 220, 293*
 - Defined, 67
 - Major Activities, 294
- Service Requirement*
 - Analysis, 203
 - Attribute Matrix, 203
 - Defined, 200
 - Elicitation, 202
 - Lifecycle, 200
 - Negotiation, 203
 - New, 210
 - Specification, 203
 - Translation, 204
 - Validation, 204
- Service Requirement Lifecycle*
 - Six Stages, 202
- Service Responsibility Matrix, 146*
- Service Retired, 198*
- Service Retirement Plan, 198*
- Service Revised, 192*
- Service Revision Lifecycle, 221*
 - Inputs, 222
- Service Revision Program, 223*
- Service Support*
 - Reporting, 362
- Service Support Lifecycle, 218*
- Service Support Management, 359*
- Service System, 65*
 - Elements, 66
- Service Value Management, 417*
- Service Value Mapping, 423*
- Service Value Maps, 430*
- Service Variability, 24*
- Service Violation, 179*
- Shenbart's Cycle, 435*
- Six Sigma*
 - Relationship to Lean, 440
 - Relationship to PDCA, 440
- Society of American Value Engineers, 430*
- Source Configuration Tree, 413*
- Source Management, 412*
- Space Planning, 384*
- Stakeholder Hierarchy*
 - Defined, 125
- Statement of Requirements*
 - Defined, 125
- Statement of Work*
 - Contents, 175
- Steady State. See*

Strategic Planning, 284
Subject Matter Expert, 85
Subscriber Management, 212
Supplier
 Defined, 365
Supplier Contract, 53
Supplier Management, 365
Support Center, 360
Support Procedures
 Scope, 158
SWOT Analysis, 71
System, 390
Systems Management, 390
Target Customer Segment, 39
Target Service Specification
 Defined, 153
Target Time to Restore, 367
Temporary Containment, 376
Test Plan, 159
Threat, 277
Threat Agent, 277
Transaction, 27
Urgency, 367
 Defined, 101
USMBOK
 Defined, 2
 General Management Knowledge Areas, 13
 Interpersonal Skills, 13
 Purpose, 2
 Related BOKs, 11
 Scope, 10
Utilization Rate, 385
Value Activity, 425
Value Architecture, 40
Value Chain
 Origin, 424
 Primary Activities, 425
 Support Activities, 426
Value Configuration, 39
Value Equation, 46
Value Mapping, 423
Value Maps, 427
Value Network, 291, 424
Value Network Analysis, 291
Value Network Mapping, 292
Value Proposition, 39
Value Statements, 72
Value Stream Mapping, 428
Value-Add, 429
Vision and Scope Document
 Contents, 281
 Defined, 123
Vision Statement, 71
Vital Mission Activity, 82, 367
Vital Product Data, 326
Voice of the Customer
 Capturing, 88
 Design Attributes, 150
Voice of the Provider, 265
Workaround, 376
Workforce Monitoring, 360
Zero Cost Operation, 394
Zone of Risk, 405