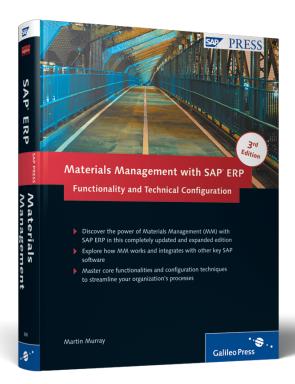




Materials Management with SAP® ERP: Functionality and Technical Configuration





Contents at a Glance

1	Materials Management Overview	35
2	Materials Management Organizational Structure	43
3	Master Data in Materials Management	65
4	Material Master Data – Part 1	89
5	Material Master Data – Part 2	141
6	Vendor Master Data	189
7	Purchasing Information Data	221
8	Batch Management Data	237
9	Material Master Record	261
10	Vendor Master Record	281
11	Purchasing Overview	301
12	Purchase Requisition	327
13	Request for Quotation	343
14	Quotation	361
15	Purchase Order	371
16	External Service Management (ESM)	411
17	Consumption-Based Planning	429
18	Material Requirements Planning	441
19	Forecasting	451
20	Inventory Management Overview	463
21	Goods Issue	489
22	Goods Receipt	505
23	Physical Inventory	521
24	Invoice Verification	537
25	Balance Sheet Valuation	559
26	Material Ledger	577
27	Classification System	589
28	Document Management	611
29	Conclusion	621
Α	Bibliography	625
В	Glossary	627
C	List of Materials Management Transaction Codes	633
D	The Author	641

Contents

Pre	eface			29
1	Mat	erials /	Management Overview	35
	1.1		als Management as a Part of SAP ERP	35
		1.1.1	SAP History	35
		1.1.2	Core SAP ERP Functionality	36
	4.0	1.1.3	Business Suite Functionality	37
	1.2		als Management as Part of Logistics	38
		1.2.1	Definition of Logistics and Supply Chain	38
		1.2.2	Management of the Supply Chain	38
	4.3	1.2.3	SAP and Logistics	38
	1.3		tegration	39 40
		1.3.1 1.3.2	The Material Flow of the Supply Chain	40
			The Information Flow of the Supply Chain	40
	1.4	1.3.3	The Financial Flow of the Supply Chain	41
	1.4	Summa	ary	42
				_
2	Mat	erials <i>I</i>	Management Organizational Structure	43
	2.1	Client S	Structure	43
		2.1.1	What Is a Client?	43
		2.1.2	Creating the Client Landscape	44
		2.1.3	Defining a Client	45
		2.1.4	Correction and Transport System (CTS)	45
	2.2	Compa	ıny Code	46
		2.2.1	What Is a Company?	46
		2.2.2	Creating a Company Code	47
		2 2 2	· · ·	48
		2.2.3	Assigning a Company Code	
	2.3	2.2.3 Plants	Assigning a Company Code	48
	2.3			
	2.3	Plants	What Is a Plant?	48
	2.3	Plants 2.3.1		48 48
	2.3	Plants 2.3.1 2.3.2	What Is a Plant? Prerequisites for a Plant	48 48 48

	2.4	Storage	e Locations	51
		2.4.1	What Is a Storage Location?	51
		2.4.2	Defining a Storage Location	52
		2.4.3	Automatic Creation of Storage Locations	53
	2.5	Wareh	ouse and Storage Types	55
		2.5.1	Assign a Warehouse to a Plant and Storage Location	56
		2.5.2	Storage Type	56
		2.5.3	Storage Sections and Storage Bins	57
	2.6	Purcha	sing Organization	57
		2.6.1	What Is a Purchasing Organization?	58
		2.6.2	Types of Purchasing Organizations	58
		2.6.3	Create a Purchasing Organization	59
		2.6.4	Purchasing Groups	60
	2.7	Busine	ss Examples — Organizational Structure	61
		2.7.1	Client Structure	61
		2.7.2	Plants	61
		2.7.3	Storage Locations	62
		2.7.4	Warehouse Management	63
		2.7.5	Purchasing Organization	64
	2.8	Summa		64
			,	
3	Mas	ter Dai	ta in Materials Management	65
	3.1			
	J.,	Materi	al Master	65
		Materi	al Master	65 65
		3.1.1	Material Master Overview	65
		3.1.1 3.1.2	Material Master Overview Material Master Tables	65 65
		3.1.1 3.1.2 3.1.3	Material Master Overview Material Master Tables Material Numbering	65 65 66
		3.1.1 3.1.2 3.1.3 3.1.4	Material Master Overview Material Master Tables Material Numbering Material Number Range	65 65 66 68
	3.2	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5	Material Master Overview Material Master Tables Material Numbering Material Number Range Material Type	65 65 66 68 69
	3.2	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 Vendor	Material Master Overview Material Master Tables Material Numbering Material Number Range Material Type r Master	65 65 66 68 69 70
	3.2	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 Vendor 3.2.1	Material Master Overview Material Master Tables Material Numbering Material Number Range Material Type r Master Definition of a Vendor	65 66 68 69 70
	3.2	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 Vendor 3.2.1 3.2.2	Material Master Overview Material Master Tables Material Numbering Material Number Range Material Type r Master Definition of a Vendor Vendor Master in SAP	65 65 66 68 69 70 70
	3.2	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 Vendor 3.2.1 3.2.2 3.2.3	Material Master Overview Material Master Tables Material Numbering Material Number Range Material Type r Master Definition of a Vendor Vendor Master in SAP Vendor Account Groups	65 65 66 68 69 70 70 71
		3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 Vendor 3.2.1 3.2.2 3.2.3 3.2.4	Material Master Overview Material Master Tables Material Numbering Material Number Range Material Type r Master Definition of a Vendor Vendor Master in SAP Vendor Account Groups Vendor Number Range	65 66 68 69 70 70 71 74
	3.2	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 Vendor 3.2.1 3.2.2 3.2.3 3.2.4 Purcha	Material Master Overview Material Master Tables Material Numbering Material Number Range Material Type r Master Definition of a Vendor Vendor Master in SAP Vendor Account Groups Vendor Number Range ssing Information Data	65 66 68 69 70 70 71 74 76
		3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 Vendor 3.2.1 3.2.2 3.2.3 3.2.4 Purcha 3.3.1	Material Master Overview Material Master Tables Material Numbering Material Number Range Material Type r Master Definition of a Vendor Vendor Master in SAP Vendor Account Groups Vendor Number Range sing Information Data Purchasing Information Record	65 65 66 68 69 70 70 71 74
		3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 Vendor 3.2.1 3.2.2 3.2.3 3.2.4 Purcha	Material Master Overview Material Master Tables Material Numbering Material Number Range Material Type r Master Definition of a Vendor Vendor Master in SAP Vendor Account Groups Vendor Number Range ssing Information Data	65 66 68 69 70 70 71 74 76

	3.3.3	Purchasing Information Record Numbering	76
	3.3.4	Purchasing Information Record-Screen Layout	77
3.4	Batch /	Wanagement Data	79
	3.4.1	What Is a Batch?	79
	3.4.2	Batch Level	79
	3.4.3	Changing the Batch Level	80
	3.4.4	Batch-Status Management	80
	3.4.5	Initial Batch Status	81
	3.4.6	Batch-Number Assignment	81
3.5	Serial 1	Number Data	82
	3.5.1	What Is a Serial Number?	82
	3.5.2	Serial Number Profile	82
	3.5.3	Serializing Procedures	83
3.6	Busine	ss Examples – Master Data in Materials Management	85
	3.6.1	Material Master Data	85
	3.6.2	Vendor Master Data	85
	3.6.3	Purchasing Data	86
	3.6.4	Batch Management	87
	3.6.5	Serial Numbers	87
3.7	Summa	ary	88
Mat	erial <i>N</i>	aster Data – Part 1	89
4.1	Industi	y Sector	89
4.1 4.2	Industi	y Sectoral Type	89 90
	Industi	y Sectoral TypeStandard Material Types	89 90 90
	Industr Materi 4.2.1 4.2.2	ry Sector al Type Standard Material Types Configuring Material Types	89 90 90 94
	Industri Materi 4.2.1 4.2.2 4.2.3	ry Sector al Type Standard Material Types Configuring Material Types Changing a Material Type	89 90 90 94 96
	Industri Materi 4.2.1 4.2.2 4.2.3	y Sector al Type Standard Material Types Configuring Material Types Changing a Material Type	89 90 90 94 96 97
4.2	Industri Materi 4.2.1 4.2.2 4.2.3	ry Sector al Type Standard Material Types Configuring Material Types Changing a Material Type Data Creating a Material Master Record – Immediately	89 90 90 94 96
4.2	Industr Materi 4.2.1 4.2.2 4.2.3 Basic D	ry Sector al Type Standard Material Types Configuring Material Types Changing a Material Type Data Creating a Material Master Record – Immediately Creating a Material Master Record – Schedule	89 90 90 94 96 97 97
4.2	Industr Materi 4.2.1 4.2.2 4.2.3 Basic D 4.3.1	y Sector al Type	89 90 90 94 96 97 97 98
4.2	Industri Materi 4.2.1 4.2.2 4.2.3 Basic E 4.3.1 4.3.2	ry Sector al Type Standard Material Types Configuring Material Types Changing a Material Type Data Creating a Material Master Record – Immediately Creating a Material Master Record – Schedule	89 90 90 94 96 97 97
4.2	Industri Materi 4.2.1 4.2.2 4.2.3 Basic D 4.3.1 4.3.2 4.3.3	y Sector al Type	89 90 90 94 96 97 97 98
4.2	Industri Materi 4.2.1 4.2.2 4.2.3 Basic D 4.3.1 4.3.2 4.3.3 4.3.4 4.3.5	ry Sector al Type Standard Material Types Configuring Material Types Changing a Material Type Oata Creating a Material Master Record – Immediately Creating a Material Master Record – Schedule Creating a Material Master Record – Special Organizational Levels	89 90 90 94 96 97 97 98 98
4.2	Industri Materi 4.2.1 4.2.2 4.2.3 Basic D 4.3.1 4.3.2 4.3.3 4.3.4 4.3.5	ry Sector al Type Standard Material Types Configuring Material Types Changing a Material Type Data Creating a Material Master Record – Immediately Creating a Material Master Record – Schedule Creating a Material Master Record – Special Organizational Levels Basic Data Screen	89 90 94 96 97 98 98 99
4.2	Industri Materi 4.2.1 4.2.2 4.2.3 Basic E 4.3.1 4.3.2 4.3.3 4.3.4 4.3.5 Classifi	y Sector al Type Standard Material Types Configuring Material Types Changing a Material Type Oata Creating a Material Master Record – Immediately Creating a Material Master Record – Schedule Creating a Material Master Record – Special Organizational Levels Basic Data Screen cation Data	89 90 94 96 97 97 98 98 99 101
	3.5 3.6 3.7	3.4.1 3.4.2 3.4.3 3.4.4 3.4.5 3.4.6 3.5 Serial N 3.5.2 3.5.3 3.6.1 3.6.2 3.6.3 3.6.4 3.6.5 3.7 Summa	3.4.1 What Is a Batch? 3.4.2 Batch Level 3.4.3 Changing the Batch Level 3.4.4 Batch-Status Management 3.4.5 Initial Batch Status 3.4.6 Batch-Number Assignment 3.5 Serial Number Data 3.5.1 What Is a Serial Number? 3.5.2 Serial Number Profile 3.5.3 Serializing Procedures 3.6 Business Examples – Master Data in Materials Management 3.6.1 Material Master Data 3.6.2 Vendor Master Data 3.6.3 Purchasing Data 3.6.4 Batch Management 3.6.5 Serial Numbers 3.7 Summary

	4.5	Purchas	sing Data	109
		4.5.1	General Data	110
		4.5.2	Purchasing Value Key	112
		4.5.3	Other Data/Manufacturer Data	114
		4.5.4	Manufacturer Parts	116
		4.5.5	Foreign Trade Data	117
		4.5.6	Origin/EU Market Organization/Preferences	118
		4.5.7	Legal Control	119
	4.6	Forecas	ting Data	120
		4.6.1	General Data	121
		4.6.2	Number of Periods Required	122
		4.6.3	Control Data	123
	4.7	Work S	cheduling Data	124
		4.7.1	General Data	125
		4.7.2	Tolerance Data	126
		4.7.3	In-House Production Time in Days	127
	4.8	Sales O	rganizational Data	128
		4.8.1	General Data	129
		4.8.2	Tax Data	130
		4.8.3	Quantity Stipulations	131
		4.8.4	Grouping Items	132
		4.8.5	Material Groups	133
		4.8.6	Product Attributes	134
	4.9	Sales G	eneral Data	134
		4.9.1	General Data	135
		4.9.2	Shipping Data	135
		4.9.3	General Plant Parameters	136
	4.10	Busines	s Examples – Material Master Data	137
		4.10.1	Material Type	137
		4.10.2	Classification Data	138
		4.10.3	Purchasing Data	139
		4.10.4	Sales Data	139
	4.11	Summa	ry	140
ı	Mat	erial M	aster Data – Part 2	141
	TVIal	CITAL IVI	aster Data - Fart 2	11-7-11
	5.1	Product	tion Resources/Tools (PRT) Data	141
		5.1.1	General Data	141
		5.1.2	Default Values for Task List Assignment	142

5.2	Plant D	ata/Storage Location	144
	5.2.1	General Data	144
	5.2.2	Shelf Life Data	147
5.3	Wareho	ouse Management Data	149
	5.3.1	General Data	149
	5.3.2	Storage Strategies	150
	5.3.3	Palletization Data	153
	5.3.4	Storage Bin Stock	154
5.4	Quality	Management Data	155
	5.4.1	General Data	155
	5.4.2	Procurement Data	157
5.5	Materia	al Requirements Planning Data	158
	5.5.1	General Data	159
	5.5.2	MRP Procedure	160
	5.5.3	Lot Size Data	161
	5.5.4	Procurement	164
	5.5.5	Net Requirements Calculations	165
	5.5.6	Forecast Requirements	167
	5.5.7	Planning	168
	5.5.8	Availability Check	169
	5.5.9	Bill of Materials Explosion/Dependent Requirements	171
	5.5.10	Discontinued Parts	172
	5.5.11	Repetitive Manufacturing/Assembly/Deployment	
		Strategy	172
	5.5.12	Storage Location MRP	174
5.6	Accoun	iting Data	175
	5.6.1	General Data	175
	5.6.2	Current Valuation	176
	5.6.3	Determination of Lowest Value	178
	5.6.4	LIFO Data	179
5.7	Costing	Data	180
	5.7.1	General Data	180
	5.7.2	Quantity Structure Data	181
	5.7.3	Standard Cost Estimate	182
	5.7.4	Planned Prices	183
5.8	Busines	ss Examples – Material Master Data	183
	5.8.1	Plant and Storage Location Data	184
	5.8.2	Warehouse Data	184
	5.8.3	Quality Management Data	185

		5.8.4 5.8.5	Material Requirements Planning DataAccounting Data	185 186
	5.9	Summa	ary	187
6	Ven	dor Ma	ster Data	189
	6.1	Genera	ll Data	189
		6.1.1	Address Screen	190
		6.1.2	Control Screen	192
		6.1.3	Payment Transactions	196
	6.2	Accour	nting Information	199
		6.2.1	Accounting Information	199
		6.2.2	Payment Transactions	203
		6.2.3	Correspondence Screen	206
	6.3	Purcha	sing Data	209
		6.3.1	Conditions	209
		6.3.2	Sales Data	211
		6.3.3	Control Data	212
		6.3.4	Default Data Material	215
		6.3.5	Service Data	216
		6.3.6	Partner Functions	217
	6.4	Busine	ss Examples – Vendor Master Data	218
		6.4.1	General Data	218
		6.4.2	Purchasing Data	219
	6.5	Summa	S	220
7	Puro	hasing	Information Data	221
	7.1	Purcha	sing General Data	221
		7.1.1	Create a Purchasing Information Record	221
		7.1.2	Create a Purchasing Information Record with	
			Material Number	223
		7.1.3	Create a Purchasing Information Record without a	
			Material Number	224
		7.1.4	General Data Screen	224
	7.2		sing Organization Data	226
		7.2.1	Conditions	227
		7.2.2	Text Screen	230
		7.2.3	Statistical Data	232

	7.3	Business Examples – Purchasing Information Data	233 233
		8	
	7.4	7.3.2 Subcontracting Purchasing Information Record	234
	7.4	Summary	235
8	Bato	ch Management Data	237
	8.1	Batch Management Overview	237
		8.1.1 Batch Definition	237
		8.1.2 Pharmaceutical Industry	238
	8.2	Batch Master Record	239
		8.2.1 Creating a Batch	239
		8.2.2 Changing a Batch	245
		8.2.3 Deleting a Batch	246
	8.3	Batch Determination	248
		8.3.1 Batch Determination Condition Tables	248
		8.3.2 Batch Determination Access Sequences	249
		8.3.3 Batch Strategy Types	249
		8.3.4 Batch Search Procedure	251
	8.4	Batch Information Cockpit	252
		8.4.1 Batch Information Cockpit Overview	252
		8.4.2 BIC Standard Configuration	253
		8.4.3 BIC User-Defined Configuration	255
	8.5	Business Examples – Batch Management Data	257
		8.5.1 Batch Management Record	257
		8.5.2 Batch Determination	258
	8.6	Summary	258
9	Mat	erial Master Record	261
	9.1	Creating a Material Master Record	261
		9.1.1 Create a Material Master Record Through a Schedule	261
	9.2	Changing a Material Master Record	262
		9.2.1 Change a Material Master Record – Immediately	262
		9.2.2 Change a Material Master Record – Schedule	264
		9.2.3 Change a Material Master Record – Activate	265
	9.3	Material Master Deletion	267
	-	9.3.1 Flag for Deletion – Immediately	267
		9.3.2 Flag for Deletion – Schedule	268

		9.3.3	Flag for Deletion – Proposal List	269
		9.3.4	Material Master Archiving	269
		9.3.5	Remove a Material-Deletion Flag	270
	9.4	Loading	g Material Master Records	270
		9.4.1	Loading Material Master Records via Direct Input	270
		9.4.2	Distribution of Material Master Records via ALE	272
	9.5	Produc	tion Versions	272
		9.5.1	Production Version Overview	272
		9.5.2	Creating a Production Version	273
		9.5.3	Production Versions – Mass Processing	276
	9.6	Revisio	n Levels	276
		9.6.1	Revision Level Overview	276
		9.6.2	Revision Level Configuration	277
	9.7	Busines	ss Examples – Material Master Record	277
		9.7.1	Creating and Changing a Material Master Record	278
		9.7.2	Material Master Deletion	278
		9.7.3	Version Control	279
	9.8	Summa	ıry	280
10	Vend	dor Mas	ster Record	281
10			ster Record	
10	10.1	Creatin	g the Vendor Master Record	281
10	10.1	Creatin Changii	g the Vendor Master Recordng the Vendor Master Record	281 285
10	10.1	Creatin Changii 10.2.1	g the Vendor Master Recordng the Vendor Master Record	281 285 285
10	10.1	Creating Changing 10.2.1 10.2.2	g the Vendor Master Recordng the Vendor Master Record	281 285 285 286
10	10.1	Creating Changing 10.2.1 10.2.2 10.2.3	g the Vendor Master Recordng the Vendor Master Record	281 285 285 286 287
10	10.1	Creating Changing 10.2.1 10.2.2 10.2.3 10.2.4	g the Vendor Master Record	281 285 285 286 287 287
10	10.1 10.2	Creatin, Changii 10.2.1 10.2.2 10.2.3 10.2.4 10.2.5	g the Vendor Master Record ng the Vendor Master Record Change Vendor Master Record – Current Change Vendor Master Record – Planned Display Planned Changes to Vendor Master Records Activate Planned Changes Change Vendor Account Group	281 285 285 286 287 287 288
10	10.1 10.2	Creatin, Changii 10.2.1 10.2.2 10.2.3 10.2.4 10.2.5 Deletin	g the Vendor Master Record	281 285 285 286 287 287 288 289
10	10.1 10.2	Creating Changing 10.2.1 10.2.2 10.2.3 10.2.4 10.2.5 Deleting 10.3.1	g the Vendor Master Record	281 285 285 286 287 287 288 289 289
10	10.1 10.2 10.3	Creating Changin 10.2.1 10.2.2 10.2.3 10.2.4 10.2.5 Deletin 10.3.1 10.3.2	g the Vendor Master Record	281 285 285 286 287 287 288 289 289
10	10.1 10.2 10.3	Creating Changin 10.2.1 10.2.2 10.2.3 10.2.4 10.2.5 Deletin 10.3.1 10.3.2 Display	g the Vendor Master Record ng the Vendor Master Record Change Vendor Master Record – Current Change Vendor Master Record – Planned Display Planned Changes to Vendor Master Records Activate Planned Changes Change Vendor Account Group g Vendor Master Record Flag a Vendor Master Record for Deletion Deleting Vendor Records via Archiving	281 285 285 286 287 287 288 289 290 291
10	10.1 10.2 10.3	Creating Changing 10.2.1 10.2.2 10.2.3 10.2.4 10.2.5 Deleting 10.3.1 10.3.2 Display 10.4.1	g the Vendor Master Record	281 285 285 286 287 287 288 289 289 290 291 291
10	10.1 10.2 10.3	Creating Changin 10.2.1 10.2.2 10.2.3 10.2.4 10.2.5 Deletin 10.3.1 10.3.2 Display 10.4.1 10.4.2	g the Vendor Master Record	281 285 285 286 287 287 288 289 290 291 291 291
10	10.1 10.2 10.3	Creating Changin 10.2.1 10.2.2 10.2.3 10.2.4 10.2.5 Deletin 10.3.1 10.3.2 Display 10.4.1 10.4.2 10.4.3	g the Vendor Master Record ng the Vendor Master Record Change Vendor Master Record – Current Change Vendor Master Record – Planned Display Planned Changes to Vendor Master Records Activate Planned Changes Change Vendor Account Group g Vendor Master Record Flag a Vendor Master Record for Deletion Deleting Vendor Records via Archiving Vendor Master Record Display Vendor Master Record – Current Display Vendor Master Record – Per Key Date Display Vendors – Purchasing List	281 285 285 286 287 287 288 289 290 291 291 291 291
10	10.1 10.2 10.3	Creating Changing 10.2.1 10.2.2 10.2.3 10.2.4 10.2.5 Deleting 10.3.1 10.3.2 Display 10.4.1 10.4.2 10.4.3 Blocking	g the Vendor Master Record ng the Vendor Master Record Change Vendor Master Record – Current Change Vendor Master Record – Planned Display Planned Changes to Vendor Master Records Activate Planned Changes Change Vendor Account Group g Vendor Master Record Flag a Vendor Master Record for Deletion Deleting Vendor Records via Archiving Vendor Master Record Display Vendor Master Record – Current Display Vendor Master Record – Per Key Date Display Vendors – Purchasing List g Vendors	281 285 285 286 287 287 288 289 290 291 291 291 292 292
10	10.1 10.2 10.3 10.4	Creating Changing 10.2.1 10.2.2 10.2.3 10.2.4 10.2.5 Deleting 10.3.1 10.3.2 Display 10.4.1 10.4.2 10.4.3 Blocking 10.5.1	g the Vendor Master Record ng the Vendor Master Record Change Vendor Master Record – Current Change Vendor Master Record – Planned Display Planned Changes to Vendor Master Records Activate Planned Changes Change Vendor Account Group g Vendor Master Record Flag a Vendor Master Record for Deletion Deleting Vendor Records via Archiving Vendor Master Record Display Vendor Master Record – Current Display Vendor Master Record – Per Key Date Display Vendors – Purchasing List g Vendors	281 285 285 286 287 287 288 289 290 291 291 291 291

	10.7	Vendor	Sub-Range Functionality	295
	10.8	Busines	ss Examples – Vendor Master	296
		10.8.1	Creating and Changing a Vendor Master Record	296
		10.8.2	Vendor Master Deletion	297
		10.8.3	One Time Vendor	298
	10.9	Summa	ıry	298
11	Purc	hasing	Overview	301
	11.1	Purchas	se Requisition	301
	11.2	Reques	t for Quotation	302
	11.3	Quotat	ion	304
	11.4	Purchas	se Order	305
	11.5	Source	List and Source Determination	307
		11.5.1	Single Source	307
		11.5.2	Multi-Source	308
		11.5.3	Generate a Source List	310
		11.5.4	Source Determination	311
	11.6	Conditi	ions in Purchasing	312
		11.6.1	Condition Processing	312
		11.6.2	Pricing Conditions	313
		11.6.3	Taxes	314
		11.6.4	Delivery Costs	314
	11.7	Vendor	Evaluation	314
		11.7.1	Vendor Evaluation Overview	315
		11.7.2	Vendor Evaluation Criteria	315
		11.7.3	Vendor Evaluation Weighting	318
		11.7.4	Points Scoring for Criteria	318
		11.7.5	Maintain Vendor Evaluation	320
		11.7.6	Scoring for Automatic and Semi-Automatic Criteria	321
		11.7.7	Evaluation for a Material	322
	11.8	Busines	ss Examples – Purchasing	322
		11.8.1	Purchase Requisitions	323
		11.8.2	Source List	323
		11.8.3	Conditions	324
		11.8.4	Vendor Evaluation	324
	11.9	Summa	ıry	325

12	Purc	hase Re	equisition	327
	12.1	Indirect	ly Created Requisition	327
		12.1.1		327
		12.1.2	Purchase Requisition Created by Plant	
			Maintenance Order	328
		12.1.3	Purchase Requisition Created by Project Systems	328
		12.1.4	Purchase Requisition Created by Materials Planning	328
	12.2	-	Created Requisition	329
		12.2.1	· · · · · · · · · · · · · · · · · · ·	
			Master Record	329
		12.2.2	Create a Purchase Requisition without a Material	224
	42.2	Б	Master Record	334
	12.3		ing a Purchase Requisition	335 335
		12.3.1 12.3.2	Change a Purchase Requisition	335
		12.3.2	- 1, -3	337
			Follow-On Functions	338
	124		s Examples – Purchase Requisitions	341
	12.7	12.4.1	Indirectly Created Purchase Requisition	341
			Directly Created Purchase Requisition	341
	12.5		ry	342
			,	
13	Requ	uest for	Quotation	343
	13.1	Creating	g a Request for Quotation	343
		13.1.1	RFQ Type	343
		13.1.2	RFQ Date	345
		13.1.3	Quotation Deadline	345
		13.1.4	RFQ Document Number	345
		13.1.5	Organizational Data	345
		13.1.6	Default Data for Items	345
		13.1.7	Collective Number	347
		13.1.8	Validity Start/Validity End	347
		13.1.9	Apply By	347
			Binding Period	348
			Reference Data	348
		13.1.12	RFQ Item Detail	348

		13.1.13 RFQ Delivery Schedule	348
		13.1.14 Additional Data	349
		13.1.15 Vendor Selection	351
	13.2	Changing a Request for Quotation	352
	13.3	Releasing an RFQ	354
		13.3.1 Release Code/Release Group/Release Strategy	355
		13.3.2 Set Release/Cancel Release	355
		13.3.3 Release Prerequisite Fulfilled	355
		13.3.4 List with Items	356
		13.3.5 Scope of List	356
		13.3.6 Purchasing Document Category	356
		13.3.7 Other Selection Criteria	356
	13.4	Issuing a Request for Quotation to a Vendor	356
	13.5	Business Examples – Request for Quotation	358
		13.5.1 Creating and Changing a Request for Quotation	358
		13.5.2 Releasing a Request for Quotation	359
	13.6	Summary	359
А		tuation.	264
4	Quo'	tation	501
4			
4	14.1	Entering a Quotation	361
4		Entering a Quotation	361 363
4	14.1	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations	361 363 363
4	14.1 14.2	Entering a Quotation	361 363 363 365
4	14.1	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations	361 363 363 365 366
4	14.1 14.2	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected	361 363 363 365 366 366
4	14.1 14.2	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection	361 363 363 365 366 367 367
4	14.1 14.2 14.3	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders	361 363 363 365 366 367 367 368
4	14.1 14.2 14.3	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders Business Examples – Quotations	361 363 363 365 366 367 367 368 368
4	14.1 14.2 14.3	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders Business Examples – Quotations 14.4.1 Comparing Quotations	361 363 363 365 366 367 367 368 368 369
4	14.1 14.2 14.3	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders Business Examples – Quotations 14.4.1 Comparing Quotations 14.4.2 Rejecting Quotations	361 363 363 365 366 367 367 368 368 369 369
4	14.1 14.2 14.3	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders Business Examples – Quotations 14.4.1 Comparing Quotations	361 363 363 365 366 367 367 368 368 369
4	14.1 14.2 14.3	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders Business Examples – Quotations 14.4.1 Comparing Quotations 14.4.2 Rejecting Quotations	361 363 363 365 366 367 367 368 368 369 369
5	14.1 14.2 14.3 14.4	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders Business Examples – Quotations 14.4.1 Comparing Quotations 14.4.2 Rejecting Quotations	361 363 365 366 367 368 368 369 369 370
	14.1 14.2 14.3 14.4 14.5	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders Business Examples – Quotations 14.4.1 Comparing Quotations 14.4.2 Rejecting Quotations Summary hase Order	361 363 365 366 367 367 368 369 369 370
	14.1 14.2 14.3 14.4	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders Business Examples – Quotations 14.4.1 Comparing Quotations 14.4.2 Rejecting Quotations Summary hase Order Create a Purchase Order	361 363 363 365 366 367 368 368 369 370
	14.1 14.2 14.3 14.4 14.5	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders Business Examples – Quotations 14.4.1 Comparing Quotations 14.4.2 Rejecting Quotations Summary Create a Purchase Order 15.1.1 Create a Purchase Order with Vendor Known	361 363 363 365 366 367 368 368 369 370
	14.1 14.2 14.3 14.4 14.5	Entering a Quotation Comparing Quotations 14.2.1 Price Comparison Factor in Quotations 14.2.2 Other Qualitative Factors in Quotations Rejecting Quotations 14.3.1 Flagging the Quotation as Rejected 14.3.2 Printing the Quotation Rejection 14.3.3 Advising Unsuccessful Bidders Business Examples – Quotations 14.4.1 Comparing Quotations 14.4.2 Rejecting Quotations Summary hase Order Create a Purchase Order 15.1.1 Create a Purchase Order with Vendor Known 15.1.2 Create a Purchase Order where the Vendor	361 363 363 365 366 367 368 368 369 370 371

15.2	Maintair	ning a Purchase Order	374
15.3	Blocking	and Canceling a Purchase Order	375
	15.3.1	Block a Purchase Order Line Item	375
	15.3.2	Canceling a Purchase Order Line Item	376
15.4	Account	: Assignment in a Purchase Order	377
	15.4.1	Account Assignment Overview	377
	15.4.2	Account Assignment Categories	377
	15.4.3	Single Account Assignment	379
	15.4.4	Multiple Account Assignment	380
15.5	Outline	Purchase Agreement	381
	15.5.1	Outline Purchase Agreement Overview	381
	15.5.2	Outline Purchase Agreement Types	381
15.6	Scheduli	ing Agreement	382
	15.6.1	Scheduling Agreement Overview	382
	15.6.2	Create a Scheduling Agreement Manually	382
	15.6.3	Create a Scheduling Agreement with Reference	384
15.7	Contract	ts	386
	15.7.1	Contract Overview	386
	15.7.2	Centrally Agreed Contract	386
	15.7.3	Creating a Contract	387
	15.7.4	Release Order Against a Contract	389
15.8	Vendor	Confirmation	390
	15.8.1	Vendor Confirmation Overview	390
	15.8.2	Confirmation Configuration	391
	15.8.3	Enter a Manual Confirmation	392
15.9	Message	es and Outputs	394
	15.9.1	Message Overview	394
	15.9.2	Message Creation	394
	15.9.3	Message Output Definition	395
	15.9.4	Output Messages	395
15.10	Pricing F	Procedures	396
	15.10.1	Pricing Conditions	396
	15.10.2	Condition Types	397
	15.10.3	Condition Tables	398
	15.10.4	Access Sequences	399
	15.10.5	Calculation Schema	400
	15.10.6	Price Determination	401
	15.10.7	Standard Pricing Condition Type PB00	401
	15.10.8	Calculation Schema for Condition Type PB00	401

15.11	Reporting	402
	15.11.1 Reporting Overview	402
15.12	Release Procedures	403
	15.12.1 Introduction to Release Procedures	403
	15.12.2 Release with Classification for a Purchase Requisition	403
15.13	Business Examples – Purchase Orders	407
	15.13.1 Blocking a Purchase Order	407
	15.13.2 Outline Purchase Agreement	407
	15.13.3 Scheduling Agreement	408
	15.13.4 Contracts	408
	15.13.5 Releasing a Purchase Order	409
15.14	Summary	409
16 Exte	ernal Service Management (ESM)	411
16.1	Service Master Record	411
	16.1.1 Activity Number	412
	16.1.2 Service Category	412
	16.1.3 Material/Service Group	413
	16.1.4 Tax Indicator	413
	16.1.5 Valuation Class	413
	16.1.6 Formula	413
	16.1.7 Graphic	415
16.2	Standard Service Catalog (SSC)	415
	16.2.1 Overview	415
	16.2.2 Creating a SSC Entry	415
16.3	Conditions in ESM	417
	16.3.1 Total Price Condition	417
16.4	Procurement of Services	419
	16.4.1 Using a Purchase Order	419
16.5	Entry of Services	422
	16.5.1 Service Entry Sheet	422
16.6	Blanket Purchase Order	423
	16.6.1 Creating a Blanket Purchase Order	423
16.7	Business Examples – External Service Management	425
	16.7.1 Service Master Record	425
	16.7.2 Procurement of Services	426
	16.7.3 Blanket Purchase Order	426
16.8	Summary	427

17	Cons	sumption-Based Planning	429
	17.1	Master Data in CBP	429
		17.1.1 Material Master Record	429
		17.1.2 Planning Calendar	430
	17.2	Planning Process	432
		17.2.1 Planning at the Plant Level	432
		17.2.2 Planning at the Storage Location Level	432
	17.3	Planning Evaluation	434
		17.3.1 MRP List	434
		17.3.2 Stock/Requirements List	435
	17.4	Procurement Proposal	436
		17.4.1 Purchase Requisitions	437
		17.4.2 Schedule Lines	437
		17.4.3 Planned Orders	437
	17.5	Business Examples - Consumption-Based Planning	437
		17.5.1 Planning Process	437
		17.5.2 Planning Evaluation	438
	17.6	Summary	439
		·	
18	Mat	erial Requirements Planning	441
	18.1	Reorder-Point Planning	441
	10.1	18.1.1 Manual Reorder-Point Planning	442
		18.1.2 Automatic Reorder-Point Planning	442
	18.2	Forecast-Based Planning	443
	18.3	Time-Phased Planning	444
		Business Examples – Material Requirements Planning	446
	10.1	18.4.1 Reorder Point Planning	446
		18.4.2 Forecast-Based Planning	447
		18.4.3 Time-Phased Planning	448
	18 5	Summary	449
	10.5	54	
40	Бана		454
19	Fore	casting	451
	19.1	Forecast Models	451
		19.1.1 Constant Model	451
		19.1.2 Trend Model	452

		19.1.3	Seasonal Model	452
		19.1.4	Seasonal Trend Model	453
	19.2	Forecas	st Parameters	453
		19.2.1	Create Forecast Profile	453
	19.3	Forecas	t Options	457
		19.3.1	Manual Forecast Model Selection	457
		19.3.2	Automatic Forecast Model Selection	457
	19.4	Busines	ss Examples – Forecasting	459
		19.4.1	Forecast Models	459
	19.5	Summa	ıry	461
20	Inve	ntory Λ	Λanagement Overview	463
	20.1	Goods	Movements	463
		20.1.1		464
		20.1.2	Material Document	465
			Movement Types	466
	20.2		Issue	467
			Receipt	468
			ll Inventory	468
		•	5	469
		20.5.1	Introduction to Returns	469
		20.5.2	Creating a Return	469
		20.5.3	-	470
		20.5.4	Material Documents	472
	20.6	Reserva	ations	474
		20.6.1	Introduction to Reservations	474
		20.6.2	Creating a Manual Reservation	475
		20.6.3	MRP and Reservations	476
		20.6.4	Reservations Management Program	477
	20.7	Stock T	ransfers	480
		20.7.1	Stock Transfer and Transfer Posting	480
		20.7.2	Transfer Between Storage Locations Using	
			Transaction MB1B	480
		20.7.3	Transfer Between Plants Using Transaction MB1B	483
		20.7.4	Transfer Between Storage Locations Using MIGO_TR	484
		20.7.5	Transfer Between Plants Using MIGO_TR	485
		20.7.6	Transfer Between Company Codes	485

		Business Examples – Inventory Management 20.8.1 Physical Inventory 20.8.2 Returns 20.8.3 Reservations Summary	486 486 487 487 488
21	Goo	ds Issue	489
	21.1	Goods Issue to a Production Order 21.1.1 Planned Goods Issue Using MB1A 21.1.2 Planned Goods Issue Using Transaction MIGO_GI 21.1.3 Unplanned Goods Issue Using Transaction MB1A 21.1.4 Backflushing Goods Issue to Scrap	489 489 491 492 493 494
		21.2.1 Goods Issue to Scrap Using Transaction MB1A	495 496
	21.3	Goods Issue for Sampling	497 497 498
	21.4	Goods Issue Posting	498 499 499 499 499 499
	21.5	Goods Issue Reversal	500
	21.6	Business Examples – Goods Issue 21.6.1 Goods Issue to Scrap 21.6.2 Goods Issue to Sampling 21.6.3 Backflushing	501 501 502 503
	21.7		503
22	Goo	ds Receipt	505
	22.1	Goods Receipt for a Purchase Order	505 505

		22.1.2	Goods Receipt with an Unknown Purchase Order	
			Number	507
		22.1.3	Goods Receipt Posting	508
	22.2	Goods	Receipt for a Production Order	510
	22.3	Initial E	Entry of Inventory	511
		22.3.1	Initial Inventory Load	512
	22.4	Other (Goods Receipts	513
		22.4.1	Goods Receipt Without a Production Order	513
		22.4.2	Goods Receipt of By-Products	514
			Goods Receipt for Free Goods	515
		22.4.4	Goods Receipt for Returnable Transport	
			Packaging (RTP)	516
	22.5	Busines	ss Examples – Goods Receipts	516
		22.5.1	Goods Receipt for a Purchase Order	517
		22.5.2	Goods Receipt Without a Purchase Order	517
		22.5.3	Goods Receipt for Returnable Transport	
			Packaging (RTP)	518
	22.6	Summa	ry	519
23	Phys	sical Inv	ventory	521
23	Phys	sical Inv	ventory	521
23	23.1		l Inventory Preparation	521
23			l Inventory PreparationPreparations for a Physical Inventory Count	521 522
23		Physica	I Inventory PreparationPreparations for a Physical Inventory Count	521 522 522
23		Physica 23.1.1	l Inventory PreparationPreparations for a Physical Inventory Count	521 522 522 524
23	23.1	Physica 23.1.1 23.1.2 23.1.3	I Inventory Preparation Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document ag and Recounts	521 522 522 524 526
23	23.1	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1	I Inventory Preparation Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document ng and Recounts Entering the Count	521 522 522 524 526 526
23	23.1	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1 23.2.2	I Inventory Preparation Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document and Recounts Entering the Count Difference List	521 522 522 524 526 526 527
23	23.1	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1	I Inventory Preparation Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document and Recounts Entering the Count Difference List Missing Material	521 522 522 524 526 526 527 529
23	23.1	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1 23.2.2 23.2.3 23.2.4	I Inventory Preparation Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document ng and Recounts Entering the Count Difference List Missing Material Recounts	521 522 522 524 526 526 527
23	23.1	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1 23.2.2 23.2.3 23.2.4	I Inventory Preparation Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document and Recounts Entering the Count Difference List Missing Material	521 522 522 524 526 526 527 529 529 530
23	23.1	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1 23.2.2 23.2.3 23.2.4	I Inventory Preparation Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document ng and Recounts Entering the Count Difference List Missing Material Recounts	521 522 522 524 526 526 527 529
23	23.1	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1 23.2.2 23.2.3 23.2.4 Physica	I Inventory Preparation Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document Ing and Recounts Entering the Count Difference List Missing Material Recounts I Inventory Posting	521 522 524 526 526 527 529 529 530 530 532
23	23.2	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1 23.2.2 23.2.3 23.2.4 Physica 23.3.1 23.3.2 23.3.3	I Inventory Preparation Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document Ing and Recounts Entering the Count Difference List Missing Material Recounts I Inventory Posting Posting the Count Document Posting a Count Without a Document Accounting of Inventory Differences	521 522 524 526 526 527 529 530 530 532 533
23	23.2	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1 23.2.2 23.2.3 23.2.4 Physica 23.3.1 23.3.2 23.3.3	Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document Ing and Recounts Entering the Count Difference List Missing Material Recounts I Inventory Posting Posting the Count Document Posting a Count Without a Document Accounting of Inventory Differences Examples – Physical Inventory	521 522 524 526 526 527 529 530 530 532 533 534
23	23.2	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1 23.2.2 23.2.3 23.2.4 Physica 23.3.1 23.3.2 23.3.3	Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document Ing and Recounts Entering the Count Difference List Missing Material Recounts I Inventory Posting Posting the Count Document Posting a Count Without a Document Accounting of Inventory Differences Examples – Physical Inventory Physical Inventory Preparation	521 522 524 526 526 527 529 530 530 532 533
28	23.2	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1 23.2.2 23.2.3 23.2.4 Physica 23.3.1 23.3.2 23.3.3 Busines	Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document Ing and Recounts Entering the Count Difference List Missing Material Recounts I Inventory Posting Posting the Count Document Posting a Count Without a Document Accounting of Inventory Differences Examples – Physical Inventory	521 522 524 526 526 527 529 530 530 532 533 534
23	23.2 23.3 23.4	Physica 23.1.1 23.1.2 23.1.3 Countin 23.2.1 23.2.2 23.2.3 23.2.4 Physica 23.3.1 23.3.2 23.3.3 Busines 23.4.1 23.4.2	Preparations for a Physical Inventory Count Creating the Physical Inventory Count Document Printing the Physical Inventory Count Document Ing and Recounts Entering the Count Difference List Missing Material Recounts I Inventory Posting Posting the Count Document Posting a Count Without a Document Accounting of Inventory Differences Examples – Physical Inventory Physical Inventory Preparation	521 522 522 524 526 526 527 529 530 530 532 533 534 534

24	Invo	ice Verification	537
	24.1	Standard Three-Way Match	537
		24.1.1 Entering an Invoice	537
		24.1.2 Simulate Posting	540
		24.1.3 Invoice Posting	541
	24.2	Evaluated Receipt Settlement	542
		24.2.1 Benefits of ERS	542
		24.2.2 Running the Evaluated Receipt Settlement	543
	24.3	Document Parking	544
		24.3.1 Benefits of Document Parking	544
		24.3.2 Parking an Invoice	544
	24.4	Variances	545
		24.4.1 Variances Overview	545
		24.4.2 Tolerance Limits	545
	24.5	Blocking Invoices	548
		24.5.1 Blocking Invoices	548
		24.5.2 Manual Block	548
		24.5.3 Stochastic or Random Block	550
		24.5.4 Block Due to Amount of an Invoice Item	551
		24.5.5 Block Due to Variance of an Invoice Item	553
	24.6	Releasing Invoices	554
		24.6.1 Releasing Invoices Automatically	554
	24.7	Business Examples – Invoice Verification	555
		24.7.1 Evaluated Receipt Settlement	555
		24.7.2 Variances	556
		24.7.3 Blocking Invoices	557
	24.8	Summary	558
25	Bala	nce Sheet Valuation	559
	25.1	LIFO Valuation	559
	23.1	25.1.1 Configuration for LIFO	560
		25.1.2 Preparation for LIFO	562
		25.1.3 Running a LIFO Valuation	563
	25.2	FIFO Valuation	565
	23.2	25.2.1 Configuration for FIFO	565
		25.2.2 Preparation for FIFO	566

	25.2.3 Running a FIFO Valuation Lowest Value Determination	567 568 568 570 572 574 574
25.5	25.4.2 FIFO Valuation	575 575 576
26 Mat	erial Ledger	577
26.1	Material Ledger Overview	577 578
26.2	26.1.2 Benefits of Using the Material Ledger	578 579
	26.2.1 Material Master Record	579 581
26.3	Material Price Determination	582 582 583 585 585
26.4	Business Examples – Material Ledger 26.4.1 Material Ledger Overview 26.4.2 Material Price Determination	586 586 587
26.5	Summary	587
27 Clas	sification System	589
27.1	Classification Overview	589 589 590
27.2		591 591 592

	27.3	Classes	595
		27.3.1 Create Classes	596
	27.4	Class Type	597
		27.4.1 Class Type Overview	597
		27.4.2 Configuring a Class Type	598
	27.5	Class Hierarchies	600
		27.5.1 Creating a Class Hierarchy	601
		27.5.2 Inherited Characteristics	601
	27.6	Object Dependencies	602
		27.6.1 Object Dependency Overview	602
		27.6.2 Dependency Creation	602
	27.7	Finding Objects Using Classification	603
		27.7.1 Classifying Materials	603
		27.7.2 Classifying Objects	604
		27.7.3 Finding Objects	606
	27.8	Business Examples – Classification	607
		27.8.1 Characteristics and Classes	607
		27.8.2 Finding Objects Using Classification	608
	27.9	Summary	608
28	Doci	ument Management	611
28	Doc	ument Management	611
28	28.1	Document Management Overview	611
28	28.1	Document Management Overview Document Information Record	611 611
28	28.1	Document Management Overview Document Information Record 28.2.1 Document Number	611
28	28.1	Document Management Overview Document Information Record	611 611
28	28.1	Document Management Overview Document Information Record 28.2.1 Document Number	611 611 612 612 613
28	28.1	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type	611 611 612 612 613 613
28	28.1 28.2	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type 28.2.3 Document Part 28.2.4 Document Version 28.2.5 Document Status	611 611 612 612 613 613
28	28.1 28.2	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type 28.2.3 Document Part 28.2.4 Document Version 28.2.5 Document Status Creating a Document	611 611 612 612 613 613 614
28	28.1 28.2 28.3	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type 28.2.3 Document Part 28.2.4 Document Version 28.2.5 Document Status Creating a Document 28.3.1 Create a Document	611 612 612 613 613 613 614
28	28.1 28.2 28.3	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type 28.2.3 Document Part 28.2.4 Document Version 28.2.5 Document Status Creating a Document 28.3.1 Create a Document Linking an Object to a Document	611 611 612 612 613 613 613 614 614
28	28.1 28.2 28.3	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type 28.2.3 Document Part 28.2.4 Document Version 28.2.5 Document Status Creating a Document 28.3.1 Create a Document Linking an Object to a Document 28.4.1 Configuration for Linking Documents	611 612 612 613 613 613 614 615 616
28	28.1 28.2 28.3	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type 28.2.3 Document Part 28.2.4 Document Version 28.2.5 Document Status Creating a Document 28.3.1 Create a Document Linking an Object to a Document 28.4.1 Configuration for Linking Documents 28.4.2 Linking a Document to a Material Master Record	611 612 612 613 613 614 614 615 616
28	28.1 28.2 28.3	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type 28.2.3 Document Part 28.2.4 Document Version 28.2.5 Document Status Creating a Document 28.3.1 Create a Document Linking an Object to a Document 28.4.1 Configuration for Linking Documents	611 612 612 613 613 614 614 615 616 616
28	28.1 28.2 28.3	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type 28.2.3 Document Part 28.2.4 Document Version 28.2.5 Document Status Creating a Document 28.3.1 Create a Document Linking an Object to a Document 28.4.1 Configuration for Linking Documents 28.4.2 Linking a Document to a Material Master Record 28.4.3 Linking a Document to a Vendor Master Record Documents and Classification	611 612 612 613 613 614 614 615 616 617 618
28	28.1 28.2 28.3 28.4	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type 28.2.3 Document Part 28.2.4 Document Version 28.2.5 Document Status Creating a Document 28.3.1 Create a Document Linking an Object to a Document 28.4.1 Configuration for Linking Documents 28.4.2 Linking a Document to a Material Master Record 28.4.3 Linking a Document to a Vendor Master Record Documents and Classification 28.5.1 Using Classification for Documents	611 612 612 613 613 614 614 615 616 616 617 618
28	28.1 28.2 28.3 28.4	Document Management Overview Document Information Record 28.2.1 Document Number 28.2.2 Document Type 28.2.3 Document Part 28.2.4 Document Version 28.2.5 Document Status Creating a Document 28.3.1 Create a Document Linking an Object to a Document 28.4.1 Configuration for Linking Documents 28.4.2 Linking a Document to a Material Master Record 28.4.3 Linking a Document to a Vendor Master Record Documents and Classification	611 612 612 613 613 614 614 615 616 617 618

28.6.1 Document Information Record	620
29 Conclusion	621
29.1 Lessons Learned	
Appendices	625
A Bibliography B Glossary C List of Materials Management Transaction Codes D The Author	629 635
Index	645

The Materials Management functionality includes a number of important master data files. The Material Master and Vendor Master files are at the core of Procurement, Inventory Management, and Invoice Verification.

3 Master Data in Materials Management

A number of master data files in Materials Management require a significant amount of understanding, not only on the part of the SAP consultant but also on the part of the SAP customer. When implementing SAP, customers are generally transitioning from one or more legacy systems. A key aspect of any implementation is the conversion of data to the master data files in SAP.

A fundamental indicator of a successful implementation is the level to which the data has been correctly converted into the SAP master data files. In this chapter, we will examine the master data files that are integral to the practice of materials management.

3.1 Material Master

The Material Master is the repository of the data used for a material. The Material Master is more than a single file for each material, it is where all information on a material is entered and accessed from. It is used throughout the SAP system.

3.1.1 Material Master Overview

When customers implement SAP, they are often overwhelmed by the information contained in the Material Master file. When customers examine their existing systems, such as BPICS, JDEdwards, or Lawson, they find that their product or material files contain a fraction of the data contained in the Material Master in the SAP system.

3.1.2 Material Master Tables

The Material Master transaction allows the users to enter all of the information relevant to a particular item of material into the correct tables. The Material Master isn't just a single file but a number of tables of information that combined reflect all of the information for that material.

Many tables are updated when information is entered into the Material Master transaction. The Material Master transaction is structured so that there are entry screens for different functional information such as Purchasing, Sales, or Accounting, but there is also an organizational dimension to data entry. The material information can be entered at each level of the organization, for example, at the levels of plant, storage location, or sales organization.

3.1.3 Material Numbering

An issue that SAP customers can face when converting their item files over to the Material Master is whether to keep their legacy numbering scheme. This means they would continue entering their own material numbers. They have the option of allowing SAP to automatically assign material numbers.

Often, legacy systems have meaningful material numbering. This numbering has usually been in place for some time, and staff members are familiar with the numbering. For the simplicity of maintenance, automatic assignment of material number is the best choice. When working with your client, be aware that there are arguments to use and not to use a meaningful numbering scheme in SAP.

The material number field is defined in configuration. Use Transaction OMSL or the navigation path IMG • Logistics – General • Material Master • Basic Settings • Define Output Format for Material Numbers.

Figure 3.1 shows the configuration screen for defining the output format for material numbers.

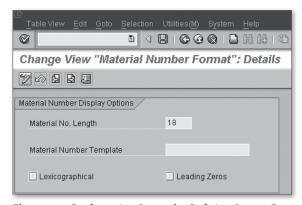


Figure 3.1 Configuration Screen for Defining Output Format

This configuration screen does not have many input fields but is extremely important when initially defining the Material Master. After your customer has decided upon the Material Master numbering scheme, you can first enter the length of the material number.

Then the customer may decide that it needs the automatically assigned material numbers in a certain format that can be defined. In this case, you can define the template and the special characters required. Figure 3.2 shows the template defined for internally assigned material numbers.

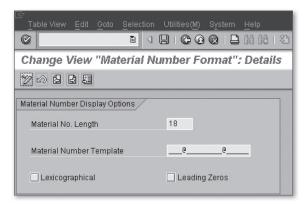


Figure 3.2 Template for Internally Assigned Material Number.

In this case, the customer requires the material numbers to appear as this example 123@45678901@23456. The only character that cannot be used in the template is the underscore because that is used to signify a non-template field.

The two other fields in the OMSL transaction have to do with how the material number is stored and how SAP determines what the number is.

The Lexicographical indicator is only relevant for numeric material numbers, either internally or externally defined. In Figure 3.2, the indicator is not set, which means that the numbers are stored with leading zeros that are right-justified. For example, if a user enters the number 12345678, the number will be stored as 00000000012345678, for example, with 10 leading zeros.

If the indicator is set, then the numeric number is not right justified and not padded with zeros. The field acts more like a character string, where a leading zero becomes as valid character.

In the following example, the indicator is now set. A user entering material 12345678 would find that the material number would be stored as 12345678,

with no padding. If the user then entered 0012345678, it would be stored in that way, and this would be a different material number in SAP. However, an internally assigned material number would be padded with the leading zeros, 00000000012345678. Therefore, there would be three separate material numbers.

Remember that this indicator cannot be changed after there are numeric material numbers in the system, so it must be defined before any tests are run in the system.

The other field in Transaction OMSL is the Leading Zeros indicator. If this indicator is set, then the material number is shown with the leading zeros. However, if the Lexicographical indicator is set, then the Leading Zeros indicator is ignored by the system.

3.1.4 Material Number Range

When the definition of the material number has been decided upon, the configuration for the material number range can be completed.

The material number ranges can be configured in Transaction MMNR or via the navigation path IMG • Logistics – General • Material Master • Basic Settings • Material Types • Define Number Ranges for Material Types.

The transaction allows a range of numbers to be entered and the option to make that range either external or internally assigned. Figure 3.3 shows the number ranges defined for internal and external number assignment.

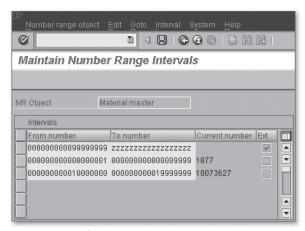


Figure 3.3 Defined Internal and External Number Ranges

3.1.5 Material Type

A material type is a definition of a group of materials with similar attributes. A material type must be assigned to each material record entered into the Material Master.

The transaction for the material type definition is OMS2. The transaction can be accessed using the navigation path, IMG • LOGISTICS – GENERAL • MATERIAL MASTER • BASIC SETTINGS • MATERIAL TYPES • DEFINE ATTRIBUTES OF MATERIAL TYPES.

The material type is configured so that fields in the Material Master are predefined for the materials assigned to that material group, as shown in Figure 3.4. For example, you can configure the price control for a material type to be Standard Price, and all materials assigned to that material type will be standard price.

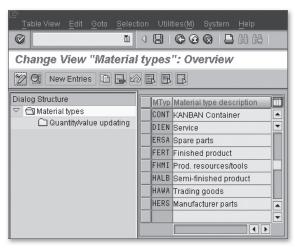


Figure 3.4 Material Types and Descriptions

After the material type has been created, the attributes can be defined. Figure 3.5 shows the attributes that can be assigned to each material type. After the material type has been defined, then the number range can be assigned.

Now we have looked at the details that go into making up the Material Master. The next section will explain the functionality of another important element in the Materials Management functionality, the Vendor Master.

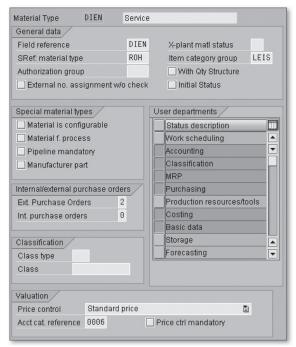


Figure 3.5 Attributes Assigned to Material Types

3.2 Vendor Master

The Vendor Master is an important master file that contains the information on a supplier required for purchasing any material or service.

3.2.1 Definition of a Vendor

We define a vendor as a person or company who supplies materials or services to the person or company requiring those materials or services. For SAP customers, every supplier that they need to convert from their legacy systems will require a Vendor Master record in SAP.

3.2.2 Vendor Master in SAP

The Vendor Master in SAP holds details about each vendor used by the customer. The Vendor Master has three distinct sections. These are discussed in some detail in the following subsections.

General Data

The general data is, as the name suggests, general information about the vendor that can be entered into the system by the group identified to create vendor records. The basic date entered at this level includes name, search terms, address, telephone, and fax. After this data is entered, further information can be added to the Vendor Master record by Accounting and Purchasing. This data can be entered using Transaction XK01.

Accounting Data

The accounting data is the financial data that is entered at the company code level. This data includes tax information, bank details, reconciliation account, payment terms, payment methods, and dunning information. The transaction used in Financial Accounting to enter this information is FK01.

Purchasing Data

The purchasing data is entered for the vendor at a purchasing organizational level. We will discuss the purchasing organization later in the book. The data entered is relevant for one purchasing organization and may be different between purchasing organizations. The data entered includes control data required in purchasing, partner functions, purchasing default fields, and Invoice Verification indicators. This data can be entered using Transaction MK01.

Vendor Account Groups 3.2.3

When you create a vendor, you must assign an account group to that vendor. Therefore, these account groups must be defined in configuration before vendor creation.

The account group is defined using the navigation path IMG • FINANCIAL ACCOUNT-ING • VENDOR ACCOUNTS • MASTER DATA • PREPARATIONS FOR CREATING VENDOR MASTER DATA • DEFINE ACCOUNT GROUPS WITH SCREEN LAYOUT (VENDORS).

In Figure 3.6, you can see the existing account groups. If you need to define another account group, click on the New Entries icon. The screen shown in Figure 3.7 will appear.

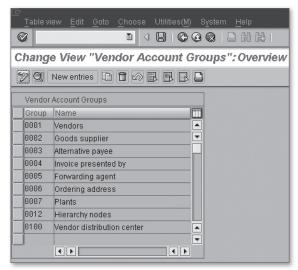


Figure 3.6 Account Group with Description

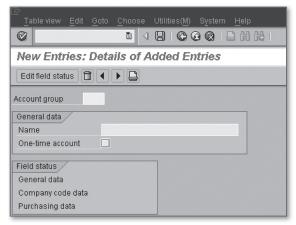


Figure 3.7 Field Entry for Account Group and Description

On this screen, you can specify whether an account group is just for one-time vendors. For vendors that you only deal with once, their data is entered into the document and not as master data. After you have entered the account group and description, you can then modify the field status as needed. This transaction allows you to configure the system to show or to not allow users to enter information into certain fields. Highlight the field status for the general, company code, or purchasing data, and then click on the EDIT FIELD STATUS icon.

Figure 3.8 shows the specific field groups that are available to configure. For the general data screen, these are the Address, Communication, Control, Payment transactions, and Contact person groups. Double-click on the group you want to configure.

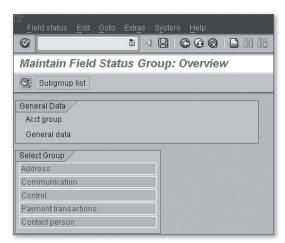


Figure 3.8 Field Groups for the General Data Screen

This configuration screen, shown in Figure 3.9, allows you to make certain fields either a required entry or an optional entry because they all are in this figure; display only, or suppressed. This configuration becomes specific to the account group that is entered when a Vendor Master record is created.

The screen layouts can also be modified for company code using the navigation path, IMG • FINANCIAL ACCOUNTING • VENDOR ACCOUNTS • MASTER DATA • PREPARATIONS FOR CREATING VENDOR MASTER DATA • DEFINE SCREEN LAYOUT PER COMPANY CODE.

The screen layout can also be modified by the particular activity. In other words, the screen for creating a vendor can be modified to appear different from the screen for modifying a vendor. The transaction is accessed using the navigation path, IMG • FINANCIAL ACCOUNTING • VENDOR ACCOUNTS • MASTER DATA • PREPARATIONS FOR CREATING VENDOR MASTER DATA • DEFINE SCREEN LAYOUT PER ACTIVITY.

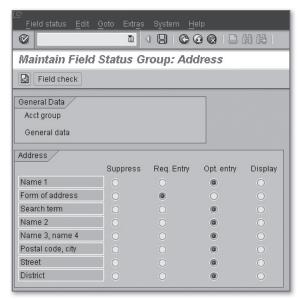


Figure 3.9 Some Fields Used to Configure Address Field Group

3.2.4 Vendor Number Range

When defining the vendor number range, it is important to remember that vendor numbers, like material numbers, can be externally or internally assigned. Many SAP customers decide to create different number ranges for each of their account groups. This requires careful consideration when defining number ranges to prevent the number ranges from overlapping.

The transaction to create vendor number ranges is XKN1, or you can use the navigation path, IMG • FINANCIAL ACCOUNTING • VENDOR ACCOUNTS • MASTER DATA • PREPARATIONS FOR CREATING VENDOR MASTER DATA • CREATE NUMBER RANGES FOR VENDOR ACCOUNTS. Figure 3.10 shows the configuration for vendor number ranges.

For this transaction, you should enter a unique number for the range, defined by a two-character field, and then the range for the numbers for your defined number range. The Current number field allows you to define the current number. The Ext. field allows you to define whether the number range is externally, or user, defined.

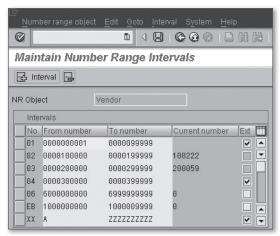


Figure 3.10 Configuration for Vendor Number Ranges

After the number range is defined, it can be assigned to a vendor account group using the navigation path, IMG • FINANCIAL ACCOUNTING • VENDOR ACCOUNTS • MASTER DATA • PREPARATIONS FOR CREATING VENDOR MASTER DATA • ASSIGN NUMBER RANGES TO VENDOR ACCOUNT GROUPS.

The number range can be assigned to many vendor account groups, as shown in Figure 3.11. Therefore, if your SAP customer decides to use just one number range for all its vendors, the configuration would show one number range assigned to all account groups.

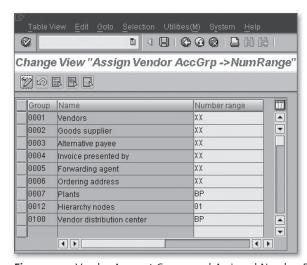


Figure 3.11 Vendor Account Groups and Assigned Number Ranges

3.3 Purchasing Information Data

The purchasing information record allows additional information to be held on a specific material that is purchased from a specific vendor.

3.3.1 Purchasing Information Record

The purchasing information record is where information specific to a material and a vendor is held. This can then be further specified for a particular purchasing organization.

The purchasing information record is used in the purchase order (PO) where information from the record is defaulted into the PO. Information such as purchasing group, net price, Invoice Verification indicators, and delivery tolerances all can be entered into the purchasing information record.

Four categories of purchasing information records can be created:

- Standard
- ► Pipeline
- ► Consignment
- ► Subcontracting

It is important to identify the correct category before creating a purchasing information record.

3.3.2 Purchasing Information Record for a Non-Stock Material

The purchasing information record usually applies to a vendor and a specific material that it supplies. However, the vendor occasionally may be supplying a service to a non-stock material. For example, there may be an operation in a production order where material is sent out for a treatment. There is no material number at that point for the material in the production order, but there is a purchase information record for a group of materials, that is, a specific material group such as certain raw materials or semi-finished non-stock items. In the system, it is possible to create a purchasing information record for a vendor and a material group. This contains the same information that a vendor/material purchasing information record would have.

3.3.3 Purchasing Information Record Numbering

The fact that there are different types of purchase information records makes number ranges necessary. The number ranges for the purchase information record can be assigned either externally or internally.

The number ranges for the purchase information records can be predefined in SAP ERP, and SAP recommends that the customer accept the given number ranges. The system does allow the number ranges to be changed if the customer requires it.

The transaction to define the purchasing information record number ranges is OMEO, or you can use the navigation path, IMG • MATERIALS MANAGEMENT • PURCHASING INFORMATION RECORD • DEFINE NUMBER RANGES.

The predefined number ranges for the purchase information records are the following:

- ► Stock material internally assigned 5300000000 to 5399999999
- ► Stock material externally assigned 5400000000 to 5499999999
- ► Non-stock material internally assigned 5500000000 to 5599999999
- ► Non-stock material externally assigned 5600000000 to 5699999999

3.3.4 Purchasing Information Record-Screen Layout

The screens in the purchasing information record transactions can be modified to allow field changes. The navigation path for this transaction is IMG • MATERIALS MANAGEMENT • PURCHASING • PURCHASING INFORMATION RECORD • DEFINE SCREEN LAYOUT.

The screen shown in Figure 3.12 allows you to choose the modifications for each transaction. To select a transaction, double-clicking on the transaction will take you to a screen where you can modify the screen layout, found in Table T162. You then can select one of the field-selection groups to modify the individual fields.



Figure 3.12 Record Transactions and Screen-Layout Modifications

Figure 3.13 shows the field selection groups available to select from for the purchasing information record transaction. Figure 3.14 shows the individual fields of the QUANTITIES field selection group for Transaction ANZE.

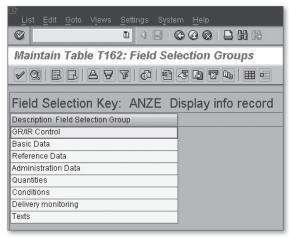


Figure 3.13 Field Selection Groups Available for the Purchasing Information Record Transaction

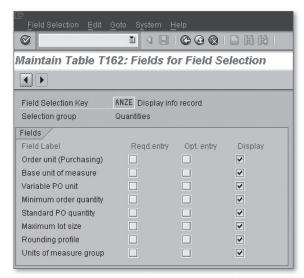


Figure 3.14 Quantities Field-Selection Group for Transaction ANZE

Batch Management Data 3.4

A batch of material is an important feature that allows a group of one material to have the same characteristics, identified by the batch number. This may be due to production or purchasing.

What Is a Batch? 3.4.1

A batch is a quantity of material that is grouped together for various reasons. It is often determined that the materials have the same characteristics and values. For instance, in the chemical industry, a certain number of containers of a certain product may be considered a batch because they were produced at the same time and have the same physical and chemical characteristics. These characteristics may differ from those of another batch of material produced on the same day.

The pharmaceutical industry is one sector where material batches are extremely important. Each batch of material is recorded throughout the product and distribution process. In the case of product recall, the batch number stamped on the pack or bottle of material is the identification that is needed.

To understand how important batch recording has become, consider the regulations within the European Union. The EU requires that each batch of pharmaceutical material imported into the EU must be accompanied by a batch certificate. This must contain the testing specifications of the product, analytical methods and test results, statements that indicate that it conforms to current Good Manufacturing Procedures (cGMP), and sign-off by a company official.

Batch Level 3.4.2

In the SAP system, the batch number can be determined at different levels. This determination needs to made early in any implementation project. Batches can be determined at client level, plant level, and material level.

Client Level

If the batch level is configured at the client level, then the batch number can only be assigned once throughout the whole client. One batch number will exist for one batch regardless of material or location. There is no issue when batches are moved from plant to plant because the batch number would not exist in the receiving plant. This is a level where, in some countries, batch numbers are unique to a company and not to a material.

Plant Level

Batch level at the plant level is the SAP default. This means that the batch is unique to a plant and material but not applicable across the company. Therefore, a batch of material at a different plant within the company could have the same batch number with different characteristics. When transferring batch material from one plant to another, the batch information is not transferred, and the batch information needs to be re-entered at the receiving plant.

Material Level

Batch level at the material level means that the batch number is unique to a material across all plants. Therefore, if a batch of material is transferred to another plant, the batch information will be adopted in the new plant without re-entering the batch information because that batch number could not have been duplicated for that material in the receiving plant.

3.4.3 Changing the Batch Level

The batch level should be decided on early in any implementation. However, due to unforeseen circumstances, you may need to change the batch level.

The batch level can be changed using Transaction OMCE. The navigation path is IMG • LOGISTICS - GENERAL • BATCH MANAGEMENT • SPECIFY BATCH LEVEL AND ACTIVATE STATUS MANAGEMENT • BATCH LEVEL.

In this transaction, the level can be changed between client, plant, and material. When changing the batch level, and prior to configuration, be aware of the following:

- ► To change the batch level from plant level to material level, the material has to be batch-managed in all plants.
- ► Any change in batch level requires significant testing before transporting the change to a production system.
- ▶ Batch-level configuration affects batch-status management functionality.

3.4.4 Batch-Status Management

Batch-status management is simply the ability to make a batch either restricted or unrestricted. The transaction for this configuration is OMCS, or you can use the navigation path, IMG • LOGISTICS - GENERAL • BATCH MANAGEMENT • SPECIFY BATCH LEVEL AND ACTIVATE STATUS MANAGEMENT • BATCH STATUS MANAGEMENT.

The configuration is simply an option to make batch-status management active or not active. However, the batch-level configuration does affect the way in which batch-status management works, as described here:

- ▶ If the batch-level configuration occurs at the material or client level, then the batch-status management is effective for all plants in the client
- ▶ If the batch-level configuration is at the plant level, then you can configure the system to determine at which plant you require batch-status management to be active. The transaction to configure this is OMCU and can be accessed using the navigation path, IMG • LOGISTICS - GENERAL • BATCH MANAGEMENT • SPECIFY BATCH LEVEL AND ACTIVATE STATUS MANAGEMENT • PLANTS WITH BATCH STATUS MANAGEMENT

Initial Batch Status 3.4.5

After defining the batch-status management, there is additional configuration that may be important to an SAP customer. If you have configured that batch-status management is active and that each batch will have a restricted or an unrestricted status, it is possible to configure the system to set the initial status when a batch is created.

This transaction code to set the initial status of a batch to restricted or unrestricted status is OMAB. The navigation path is IMG • LOGISTICS - GENERAL • BATCH MAN-AGEMENT • SPECIFY BATCH LEVEL AND ACTIVATE STATUS MANAGEMENT • INITIAL STA-TUS OF NEW BATCH.

The configuration for this is based on the material type. For example, it is possible to configure for all semi-finished goods, material type HALB, to have a batch status of restricted when the batches are created for materials with that material type.

Batch-Number Assignment

The batch number range is predefined in SAP. The predefined range 01 is defined as 0000000001 to 9999999999. The number range object for this is BATCH_CLT. This can be changed in configuration using Transaction OMAD or by using the navigation path IMG • LOGISTICS - GENERAL • BATCH MANAGEMENT • BATCH NUM-BER ASSIGNMENT • MAINTAIN INTERNAL BATCH NUMBER ASSIGNMENT RANGE.

There are two configuration steps that can be carried out if the customer requires it. First, you can allow the batch number to be assigned internally using the internal number range. To configure this, use Transaction OMCZ or the navigation path, IMG •

LOGISTICS - GENERAL • BATCH MANAGEMENT • BATCH NUMBER ASSIGNMENT • ACTIVATE INTERNAL BATCH NUMBER ASSIGNMENT • ACTIVATE BATCH NUMBER ASSIGNMENT.

Second, you can configure the system to allow the automatic numbering of batches on a goods receipt with account assignment. The navigation path for this transaction is IMG • Logistics - General • Batch Management • Batch Number Assignment • Activate Internal Batch Number Assignment • Internal Batch Number Assignment for Assigned Goods Receipt.

3.5 Serial Number Data

As we have just discussed, some materials are grouped in batches. If we want to identify a single unit of material uniquely, then the unit would have to be identified by a serial number.

3.5.1 What Is a Serial Number?

A serial number is given to a unique item to identify it and to record information about it. The serial number is different from a batch number: While a batch number is given to a number of items, a serial number is unique to one. The serial number is most often found to refer to equipment, such as motors, lathes, drills, or vacuums. For the SAP customer, there may be many areas where serial numbers need to be addressed. If the SAP customer produces items that should be uniquely defined, then serial numbers may be used. If that customer uses machines in production, it may regularly purchase maintenance items that are serialized. The Plant Maintenance functionality frequently uses serial numbers because the functionality includes use data for equipment that is most often serialized.

3.5.2 Serial Number Profile

The serial number profile is created to define attributes for the serial number. The serial number profile is a four-character alphanumeric field defined in Transaction OIS2. The transaction can also be accessed using the navigation path, IMG • PLANT MAINTENANCE AND CUSTOMER SERVICE • MASTER DATA IN PLANT MAINTENANCE AND CUSTOMER SERVICE • TECHNICAL OBJECTS • SERIAL NUMBER MANAGEMENT • DEFINE SERIAL NUMBER PROFILES • SERIAL NUMBER PROFILE.

The fields in Figure 3.15 show what is needed for configuring serial number profiles. The first field is the Profile, the four-character field, followed by a profile description. The ExistReQ indicator, when not set, allows the user to create the serial number master record during a business transaction. If the indicator is set, the serial number master record must exist before the transaction can take place.

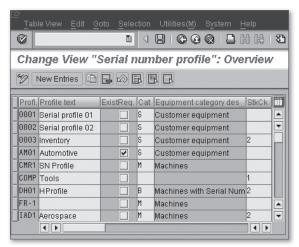


Figure 3.15 Configuration Screen for Serial Number Profiles

The CAT field is for the equipment category, a Plant Maintenance item, which defines the type of equipment for which this serial number profile is used. For example, A is for machines, while S is for customer equipment.

The STKCHK field is used to indicate whether the system should perform a stock check when the serial number is assigned.

The configuration of the serial number profile should be performed with the aid of a Plant Maintenance consultant, who will ensure that the customer's requirements for Plant Maintenance are taken into account.

3.5.3 Serializing Procedures

Serial numbers are used in many areas of SAP. Using Transaction OIS2, you can define whether a serial number is optional, required, or automatic for a number of serializing procedures. The navigation path for this transaction is IMG • PLANT MAINTENANCE AND CUSTOMER SERVICE • MASTER DATA IN PLANT MAINTENANCE AND CUSTOMER SERVICE • TECHNICAL OBJECTS • SERIAL NUMBER MANAGEMENT • DEFINE SERIAL NUMBER PROFILES • SERIALIZING PROCEDURES.

In Figure 3.16, the serial number profile 0001 is assigned a number of procedures. For each of these procedures, there are configuration items for serial number usage. The Serusage field can be configured to be none, optional, obligatory, and automatic. The other field, EqReq, enables serial numbers to be allowed with or without Plant Maintenance equipment.

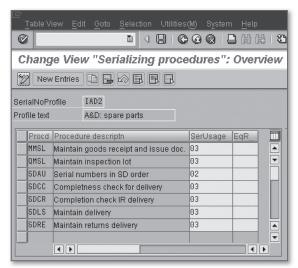


Figure 3.16 Serializing Procedures for Serial Number Profile 0001

The procedures that can be assigned to each serial number profile are defined in SAP. Table 3.1 identifies the procedure and its business meaning with relation to serial numbers (SN).

Procedure	Business Meaning
HUSL	Enables SN to be assigned in Handling Unit Management
MMSL	Enables SN to be assigned in Goods Receipt, Goods Issue, Stock Transfers, Stock Transport Orders, and Physical Inventory
PPAU	Enables SN to be assigned in Production & Refurbishment orders
PPRL	Enables SN to be assigned in Production & Refurbishment orders when they are released
QMSL	Enables SN to be assigned when entering the original value in a \ensuremath{QM} Inspection Lot
SDAU	Enables SN to be assigned in Sales Orders, Inquiries, and Quotations
SDCC	Enables SN to be assigned when performing completeness checks for deliveries
SDCR	Enables SN to be assigned when performing completeness checks for return deliveries
SDLS	Enables SN to be assigned for deliveries
SDRE	Enables SN to be assigned for return deliveries

Table 3.1 Business Procedures and Meaning for Serial Number Profiles

3.6 Business Examples – Master Data in Materials Management

In MM, there are a number of master data files that are fundamental to the functionality. The Material Master contains all of the information that is required for a material with regards to each area the material is used, for example, sales, finance, manufacturing, quality, and so on. The Vendor Master contains the information that is required for purchasing any item or service. The purchasing information record is used when purchasing specific items for a vendor. Batch data is held for each batch of material that is defined in the system. That data can be used to determine which batch is used or sold. Serial number data is used for items that need to be uniquely identified, for example, if each piece is purchased with a warranty.

3.6.1 Material Master Data

The Material Master data is comprised of data that relates to a number of different areas. For materials to be used successfully, the data has to be collected and entered into the Material Master record. Not only does the data have to be entered for those areas but also for the specific organizational areas: plants, storage locations, sales organizations, and so on. For example, a material cannot be purchased without the relevant purchasing data being entered.

Example

Prior to its SAP ERP implementation, an Irish beverage company had developed a process for creating new materials. When a finished good was developed, it had to be approved by a product board. After approval, the finished good then passed on to a product manager who collected all of the relevant information required for the manufacturing, inventory, sales, and finance systems. This process often took longer than expected, and goods had to be shipped without being recorded in all of the systems because information was still missing. When SAP ERP was implemented, the process was changed as management realized the product would not be shipped until the Material Master was created and that the current process was too slow. The company kept the role of the product board for approvals, but instead of the product manager entering the data, the individual departments entered the data relevant to their areas. Using this method, the departments became responsible if data was missing and the product could not be shipped.

3.6.2 Vendor Master Data

The Vendor Master record contains data that is used in purchasing. The Vendor Master has three distinct sections: general data, purchasing data, and accounting data. The general data has basic information on the vendor such as name, address,

and telephone number. The purchasing data is entered for the vendor at a purchasing organizational level and includes control data required in purchasing, partner functions, and purchasing defaults. The accounting data is the financial data that is entered at the company code level. This data includes tax information, bank details, and payment methods.

Example

A specialty chemicals manufacturer in New Mexico operated a simple production process where it produced five finished goods. The purchasing process was also simple with fewer than 50 items purchased. There were fewer than 40 vendors, and each vendor's information was kept on an index card in the purchasing clerk's office. The purchasing process was not automated, and POs were handwritten on carbonated preprinted forms. A larger specialty chemicals company from Alabama purchased the New Mexico manufacturer. As an SAP customer, the company deployed its standard functionality at the New Mexico location, which meant that the purchasing data had to be re-created in SAP ERP. The information on the index cards was so sparse that the company sent a questionnaire to vendors to get enough basic information to create Vendor Master records in the SAP ERP system.

3.6.3 Purchasing Data

The Material Master will contain some purchasing data at the purchasing organization level, which means that the material data may be different for one purchasing organization to the next. However, it is the purchasing information record that contains data to a unique combination of vendor and material. This means that the same material can be purchased from two different vendors, and the price offered by each vendor may be different.

Example

The headquarters for an oil company in Texas implemented only the Finance and Purchasing components, rather than the full suite that was deployed at the oil facilities. At the head office, the majority of purchases were for services, office equipment, and office supplies. Before the SAP ERP implementation, the purchasing function at the head office was performed by two purchasing clerks who filled in POs once a week after collecting requisitions from employees. Vendors offered no price incentives, and purchasing clerks made no attempt to shop around different vendors for better prices. As part of the implementation, the purchasing clerks were asked to review every material purchased at the head office and identify whether it was a material that could be offered out for a competitive bid. The review found that 80% of items purchased at the head office could be put out to bid. Over the next six months, the company sent out RFQs and then selected the

top two vendors for each item. The company created purchase information records with pricing information for the vendor and material combination, including price discounts and scale discounts.

3.6.4 **Batch Management**

Batch Management is used when items of the same material number have the same attributes and can be identified using those attributes. For example, for a chemical company, a batch of chemicals will be made at one time and that batch will have values for a number of attributes that will be different from a different batch. The batch values can determine whether a batch is suitable to be used, sold, or stored in a certain way.

Example

A New Jersey manufacturer of paint additives had used a desktop-based program to record information about the batches. As a part of the SAP ERP implementation, the company moved the information from the desktop program to Batch Master records as the product was produced. The additives manufacturer won business with a new customer and started supplying product to the customer. However, the product was returned because the company failed to identify an expiry date for the batch. This was one data element that had never been recorded for each batch, so to keep the new customer, the company had to develop a formula to determine an expiry date for each batch. The company developed the formula, which was calculated and entered by production personnel at the end of each batch run.

Serial Numbers 3.6.5

A serial number is used to uniquely distinguish items of the same material number. This is important for companies that use materials that are purchased with a warranty or materials that must be uniquely identified. For example, aircraft parts are serialized so that maintenance personnel can record data against that serialized part and replace it when it has performed a certain number of cycles.

Example

A Spanish vacuum cleaner manufacturer used a motor in its machines that was made by a subsidiary company. The vacuum cleaners were of good quality and had a high level of customer satisfaction for many years. The company implemented SAP ERP in its Spanish plants, and a year later, sold its motor manufacturing plant to a Chinese company who moved production overseas. The vacuum cleaner manufacturer continued to source its motors from China because the price per unit was less than 50% of what it was costing from its own subsidiary. After

a few months, the company found that customer complaints had increased dramatically. Consumers complained that the vacuum would lose suction and then stop completely. The vacuum manufacturer examined the returned machines and found that the motors were defective. After contacting the vendor, the company found that motors within a certain serial number range could be subject to overheating. The problem for the vacuum manufacturer was that it did not serialize the motor in its system, so the manufacturer could not identify which vacuum had the defective motor. After this incident, the company started to serialize a number of key components to ensure that if it had defective parts in the future, the company would be able to quickly pass on the information to consumers.

3.7 Summary

This chapter has described the major elements that define the master files of the Material Master. Many companies use batch management and serial numbers, so it is important that if you are involved with these that you understand how each works. Both batches and serial numbers are important to industries such as pharmaceutical and chemical, where each batch or serial number may have very different characteristics.

Let's move on to Chapter 4, Part 1 of the Material Master Data coverage.

Index

Α	Screen, 199
	Accounts payable, 189, 424
ABAP, 357	Department, 204, 537, 555, 558
ABAP/4, 43	functions, 41
ABC functionality, 147	Process, 537, 555
ABC indicator, 160, 214	Account Statement Indicator, 208
Absolute Discount, 313	Acknowledgement, 213, 392
Absolute limit, 545	Action control, 173
Absolute Surcharge, 313	Action key, 173
Access sequence, 229, 248-250, 312	Actual costing, 577, 578, 583, 587
Account, 47	Actual days' supply, 432
Code, 189, 199, 377	Additional items, 94
Group, 189, 199, 200, 282, 284, 288,	Adobe Form Designer, 357, 367
292, 295	Advance Ship Notice, 195
Holder, 197	Advance Shipping Notification (ASN), 390, 391
Number, 208	Advertising material, 94
Posting, 581	Agreement type, 382, 387
Account assignment, 82, 331, 334, 377-380,	Alpha factor, 457
382, 409	Alternative
Asset number, 332	BOM, 171
Category, 332, 334, 378	Payee, 218
Cost center, 331, 332	Source, 308
Cost object, 331	American National Standards Institute (ANSI),
GL account number, 332	106
GL accounts, 331	Analytical methods, 79
Group, 133	
Production order, 332	Annual reports, 576
Project, 332	Annual seasonal pattern, 453
Sales order, 332	APICS, 441
Account group, 71–75	Apparel, 94
Accounting, 66, 176, 189, 192, 193, 199, 203,	Application date, 347
218, 261, 277, 580	Application Link Enabling (ALE), 272
Clerk, 208	Apportionment structure, 275
	Approval, 403
Data, 71, 175	Approved Batch Record, 135
Department, 175, 177, 178, 186, 189,	Archived purchasing documents, 402
196, 197, 199, 201, 204, 205, 208, 220,	Archiving, 269, 270
298 Decument 462 482 485 489 490 490	Process, 247
Document, 463, 483, 485, 489, 490, 499,	Program, 247
508	ASN, 392
Element, 497	Assembly, 162, 171
Entry, 533	Operation, 500
Principle, 463	Scrap, 162

Asset accounts, 200	Certificate, 79
Associations, 304	Changing, 245
Authorization, 46	Characteristics, 237
Authorization group, 156, 200	Control, 237
Autocorrelation test, 458	Creation, 242
Automatic	Definition, 237
Batch Determination, 164	Deletion Flag, 246
Criteria, 321	Information, 80, 252, 253, 259
Evaluated Receipt Settlement, 213	Level, 79, 80
Model selection, 455	Number, 79, 80, 82
Payment, 198, 203	Number range, 81
Purchase Order, 112, 213	Pipeline, 238
Release, 554	Record, 238, 239, 241, 243, 245, 246, 612
Reorder-point planning, 442	Search procedure, 251
Availability check, 135, 169, 170	Selection, 250
Available quantity, 476	Split, 251
Available stock, 434, 443, 445, 447	Status, 241
Average price, 363	Strategy type, 249, 250
Tiverage price, 505	Worklist, 252
	Batch determination, 241, 248, 249, 251, 258
В	Access sequence, 249
В	Condition table, 248
Backflush, 489, 493, 494, 503	Functionality, 242
Indicator, 494	Process, 248
Relevant for, 493	Strategy types, 248, 258
Backward consumption, 168, 169	Batch entry, 164
Balance sheet, 47, 559, 565, 574	Key, 164
Account, 200	Batch Information Cockpit (BIC), 252, 253, 255
Valuation, 559	Layout, 253
Bank	User-defined, 255
Account, 197	Batch-level configuration, 81
Control key, 197	Batch-managed, 80, 565
Details, 196, 197	Batch Management, 39, 79, 88, 237, 258
Identification, 197	Requirement Indicator, 112
Routing number, 197	Batch-management indicator, 238
Sort code, 197	Batch number, 238–241, 465, 481
Base	Assignment, 81
Layer, 562	Batch object, 242
Base Quantity, 128	Batch-status, 81
Base unit of measure, 102, 110, 150, 154,	management, 80, 81
155, 414	Batch Status indicator, 241
Basic Data, 89, 101	Restricted, 241
Basic Material, 106	Unrestricted, 241
BASIS, 247	Best-of-breed, 36
Batch, 79–82, 88, 176, 237–248, 250–252,	Best practice, 204, 213, 301, 308, 620
255, 258, 464, 524, 589, 597	Beta factor, 457
Batch number, 237	Beverages, 94
	<i>o</i> ,

Billing address, 305	CAP Product Group, 119
Bill of exchange, 206	CAP Product List Number, 119
Limit, 206	Cash
Bill of material (BOM), 93, 169, 171, 275,	Discount, 313, 365
327, 489, 493, 500	Outflow, 204
Characteristics, 164	Cash Management, 200, 204
Definition, 500	Centrally agreed contract, 386, 388
Usage key, 500	Central purchasing organization, 386, 387
Binding period, 348	Certificate types, 157
Blanket purchase order, 423, 424, 426	Certification, 196
Block, 554	cGMP, 79
Indicator, 561	Change document, 156, 613
Invoice, 546	Change Number, 262, 265, 613, 615
Purchase order, 375	Engineering, 262, 263
Quantity, 522	Change request, 46
Random, 550	Characteristic, 79, 80, 88, 109, 602
Stochastic, 550	Status, 593
Vendor, 292	Value, 242, 243, 594, 602, 606
Blocked, 548, 554, 557	Chart of accounts, 47
For payment, 548	Check-cashing time, 204
Indicator, 548	Check digits, 197
Invoices, 554	Checking account, 197
Status, 292, 521	Chemical, 88
Stock, 241, 495, 497, 502, 507, 512, 514	Chemical industry, 79, 90
Book inventory, 523, 527, 533	Class, 242, 250, 403, 404, 590, 595–598,
Balance, 523	601–604, 606, 618
Book quantity, 528, 529	Hierarchy, 601
BPICS, 65	Name, 606
Bulk material, 151, 165, 494	Structure, 600
Indicator, 165	Type, 108, 109, 242, 404, 590, 596-600
Bulk Storage, 151	606, 618
Indicator, 151	Classification, 89, 242, 355, 403, 404, 589,
Placement strategy, 151	590, 600, 602, 603, 608, 618
Bundesgesundheitsamt, 238	Materials, 603
Business address, 190	Method, 403
Business Framework Architecture (BFA), 272	Objects, 604
Buyer, 305, 307, 312, 313, 323, 333, 371	Searches, 242
Buying group, 304	System, 403, 589, 606, 608, 618
By-product, 475, 513–515	Classification Data, 138
	Clearing account, 485
	Client, 43, 44, 45, 46, 368
C	dependent, 45
	Client level, 79, 81
CAD drawing, 611, 619	Client/server enterprise, 35
Calculation	Collective
Schema, 211, 312	Number, 347
Type, 229	Requirements, 171
1970, 229	= = = = = = = = = = = = = = = = = = = =

Slip, 499	Construction, 90
Commercial Price, 178	Consumption, 169, 427, 429, 430, 451, 457,
Commission Group, 133	459, 475
Communication field, 192	Cost center, 377
Company, 46, 47, 58, 59, 64, 70, 79, 80, 157,	Criteria, 160
178, 189, 190, 193, 194, 196, 204, 218, 239,	Data, 442
284, 302, 309, 325, 343, 355, 370, 411, 453,	Mode, 168
463, 464, 468, 499, 503, 505, 507, 513, 516,	Planning, 35, 328, 427, 429, 432, 439
572, 590, 591	Taxes, 118
Company code, 43, 46-48, 50, 51, 58, 59,	Values, 429
71–73, 86, 178, 199, 480, 546, 553, 560, 566,	Contact address, 218
570	Container requirement, 146
Comparison value criteria, 364	Continuous inventory, 521, 534
Competitive bid, 359	Contract, 206, 221, 230, 301, 302, 304, 309,
Competitive Products, 94	311, 312, 314, 356, 366, 367, 381, 382, 386-
Component, 171	389, 394, 395, 403, 421
Material, 585	Number, 389
Scrap, 171	Control, 577, 581
Stock, 171	Key, 142, 157
Composition, 165	Quantity, 154
Condition, 59, 227, 312, 313, 314, 324, 362,	Reason, 466
404, 417	Control Data, 123
Class, 229	Control screen, 192
Table, 229, 248, 249, 258, 312	Conversation factor, 169
Type, 227, 228, 229, 250, 312	Conversion of data, 65
Configurable Material, 92	Co-product, 165, 275
Configuration, 45–47, 48, 50, 53, 60, 66, 67,	Correction and transport, 44, 45, 64
71, 73–75, 80, 81, 83, 142, 143, 146, 151–	Correction Factor Indicator, 124
153, 156, 157, 160, 164, 166, 169, 173, 174,	Correspondence, 208
176, 195, 197, 201, 205, 218, 231, 240, 244,	Cost center, 200, 378, 475, 495, 497
245, 253, 255, 282, 295, 316, 318, 320, 343,	Costing, 50, 273
345, 349, 355, 378, 403, 412–414, 466, 471,	Data, 180
478, 496, 541, 550, 552, 553, 560, 565, 566,	Department, 180, 182
570, 578, 579, 592, 593, 598, 613, 616	Information, 180
Configurator, 318, 331	Lot size, 182
Configure, 43, 194	Overhead group, 181
Confirmation, 390	Sheet, 181
Category, 391	Count
Control, 392	Date, 524
Consignment, 76, 223, 331, 382, 584	Differences, 536
Stock, 521	Document, 523, 524, 530
Consolidation, 193, 577	Error, 536
Constant	Procedures, 521
Forecast model, 451, 459	Quantity, 528, 533
Mean value, 451	Country, 191
Constant model, 455	Code, 191, 197
Smoothing factor adjustment, 455	Country key, 48

Country of Origin, 118	Reminders, 113
Coverage profile, 166	Default supply area, 164
Creative pricing, 366	Deletion flag, 270
Critical Part, 114	Deletion indicator, 353, 476, 477, 480
Cross-border	Delivering Plant, 130
Account number, 197	Delivery, 507, 515
Payments, 197	Address, 371
Cross-client, 249	Block, 293
Cross-Distribution Chain, 130	Cost, 314, 364
Cross-Plant Material Status, 104	Date, 40, 328, 335, 346, 348, 353, 371,
Cross-Project Material Indicator, 170	390, 392
Current assets, 559	Note, 509, 537
Current liabilities, 559	Note number, 470
Current stock, 435	Of goods, 390
Customer, 40, 52, 65, 66, 67, 70, 74, 75, 77,	Quantity, 506
81, 82, 193, 200, 206, 217, 220, 221, 259,	Schedule, 310
325, 370, 371, 381, 382, 386, 441, 463, 537,	Delivery tolerance, 76
541, 542, 555, 559	Delivery Unit, 131
Delivery, 463	Delta factor, 457
Field, 193	Dependency, 602
Location, 521	Editor, 602
Master records, 194	Dependent requirements, 172, 429
Number, 193	Design Drawing, 107
Satisfaction, 235	Detailed planning, 275
Service, 463, 486	Devaluation, 570
Service level, 521	Indicator, 178
Customized report, 402	Materials, 579
Customizing, 44, 45	Percentage, 178, 570, 572
Cycle	Dewey Decimal, 589
Count indicator, 146	Difference quantity, 530
Counting, 147, 468, 521	Difference value, 530
Cyclic element, 457	Dimensions, 105
	Discontinuation indicator, 172
	Discontinued, 172
D	Material, 172
	Part, 172
Dangerous Goods, 106	Discount, 228, 229, 312, 313, 362, 364, 417
Data Type, 591	In kind, 214
Data conversion, 89	Distribution
Date of delivery, 330	Center, 483
Date To, 121	Distribution Profile, 137
Date variance, 546	Distribution requirements planning (DRP),
Days of inventory, 41	174
Days of working capital, 41	Division, 104
Days payables outstanding, 41	Document, 609, 611, 613, 618
Days sales outstanding, 41	Date, 356
Deadline Monitoring, 113	Index, 214

Number, 345, 612, 614	Engineering change, 265
Parking, 544	Number, 276
Part, 245, 613, 614	Record, 276
Record, 614, 616, 618	Engineering Change Management, 39, 261,
Required indicator, 156	277
Status, 613, 615	Engineering drawing, 243, 245, 612, 613
Version, 613	Environmentally Relevant, 107
Document information record, 611, 613, 619	Equal Opportunity Act, 366
Document Management (DMS), 245, 609,	Equipment, 82, 83, 328, 608
611, 613, 616–620	Equipment category, 83
For batches, 245	ERP, 36
System, 245	European Article Number (EAN), 106, 617
Document type, 245, 330, 331, 343, 344,	Evaluated Receipt Settlement (ERS), 213
395, 423, 612, 614, 616	Indicator, 542
Configuration, 330	Evidence of internal control, 611
External number range, 330	Exception message, 432
Double Invoices, 204	Exchange rate difference, 577, 581, 582, 583
Downward trend, 452	Exemption certificate, 202
Drugs Controller General of India, 238	Expected delivery, 476
Dunning, 71, 206, 208	Expected value, 419
Block, 207	Expiring stock, 259
Clerk, 208	Expiry date, 494, 565
Notice, 207	Export/Import Group, 118
Procedure, 206, 207	External
Run, 207	Assignment, 343
Duty	Category, 391
Levied, 364	Confirmation, 391, 392
Payment, 314	Document, 403, 611, 614, 619
•	File name, 611, 619
	Model, 455
E	Number assignment, 68, 189, 199
	Number range, 282
EAN, 214	Tax system, 191
Economic justification, 308	External service management (ESM), 411,
Effective-out date, 172	425, 427
Electronic data interchange (EDI), 40, 194,	
195, 206, 213, 304, 306, 374–376, 390, 391,	
394, 463, 537	F
Transaction set, 304	F
Electronic signature, 403	Factory calendar, 48, 431
Email, 375, 390	Fair Share Rules, 174
Address, 192	Fast-moving stock, 521
Employee, 590	Fax numbers, 192
Employer Identification Number (EIN), 193	FDA, 238, 239
Empties, 92	FDA 21 CFR Part 11, 238
Empty storage bin, 154	Field group, 73
End user, 606	Field-selection group, 77, 78

Field status, 72	Forecasting, 89, 165, 451, 461
Final assembly, 169	Method, 461
Final entry indicator, 423	Forecasting data, 120
Final issue, 476	Forecast Model, 121
Finance department, 548	Forecast Profile, 100
Financial Accounting, 71	Foreign Trade, 117, 118, 214
Financials, 47	Foreign vendors, 202
Accounting, 193, 197, 290, 468, 541, 581	Formula field, 413
flow, 38, 41	Forward consumption, 168, 169
Movement, 499, 509	Forwarding agent, 195
Posting, 489	Framework, 590
Statement, 559, 574	Free
Finished	Delivery of goods, 584
Goods, 91, 239, 441, 489, 510, 513, 515,	Goods, 513
521, 559	Of charge, 214, 515
Goods receipt, 514	Free goods discount, 93
Material, 171	Freeze Book Inventory, 523
Product, 261, 493, 494, 503, 514	Freight
First in, first out (FIFO), 179, 565, 567, 576	Charge, 314
Valuation, 566, 567	Cost, 195, 312, 313, 362, 364
Fiscal year, 167	Forwarder, 195
Fiscal Year Variant, 121	Group, 195
Fixed	Funds section, 559
Agreement, 437	Future price, 177
Assets, 559	Future requirements, 443
Lot size, 162	,
Period, 455	
Source, 309	G
Flag for Deletion, 267, 524	<u> </u>
Float	Gamma factor, 457
Time, 146	General Data, 110, 121, 125, 135
Follow-up material, 172	General Item Category Group, 105
Food, Drug and Cosmetic Act, 239	General ledger (GL), 176, 199, 200, 499, 505,
Food except perishables, 94	515
Forecast, 160, 165, 168, 429, 442, 443, 444,	Account, 176, 199, 378, 413, 541
445, 447, 451, 455, 456, 459, 461	Account number, 332
Calculation, 455	General Plant Parameters, 136
Data, 453	General Sales data, 89
Initialization, 455	GLN, 194
Model, 449, 451, 455, 456, 457, 458, 459	Bar code, 194
Parameter, 453	Global Location Number, 194
Periods, 168	Global percentage (GP), 344
Planning, 168, 441, 443	Good Manufacturing Procedures, 79
Profile, 453, 457	Goods
Requirements, 167, 443, 445	
100 4 400 1000 1000, 100, 110, 110	Free promotional items 515
Screen 457	Free promotional items, 515 Sample products, 515
Screen, 457 Value, 443, 456	Free promotional items, 515 Sample products, 515 Zero value, 515

Goods issue, 56, 467, 488-502, 533	1
For sampling, 497	
Posting, 498	IBAN, 197, 198
Reversal, 499, 500	IDoc, 272
Slip, 499	Immediate payment, 206
To production, 503	Implementation, 64, 65, 79, 141, 270, 588
To production order, 490	Implementation Guide (IMG), 48, 57, 153,
Goods movement, 54, 55, 152, 177, 463, 464,	228, 229, 248, 253, 293, 343, 395, 403, 412,
468, 471, 476, 477, 479, 480, 486, 488, 523,	431, 551, 612
577, 585	Inbound delivery, 390, 391
Goods receipt, 56, 82, 148, 157, 172, 294,	Income tax, 202
316, 375, 421, 468–470, 473, 475, 505–508,	Incomplete status, 243
515, 516, 519, 533, 537, 542, 546, 553, 555,	Incoterms, 210
569, 583	Independent requirement, 166
Definition, 505, 517	Individual Payment Indicator, 206
Document, 147, 306	Industry key, 194
Inspection, 156	Industry Sector, 89, 90
Note, 509	Industry Standard Description, 106
Posting, 508	Information flow, 38
Reversal, 509	Inheritance, 601
Slip, 147	In-House Production Time, 127, 128, 170,
Without production order, 514	328, 505, 516
Government, 307	Initial batch status, 81
Regulation, 302	Initial entry of inventory, 511
Graduated pricing scale, 313	Initialization, 122
Gross price, 313	Indicator, 123
Gross requirements planning, 169	Initial status, 81
Group	Inspection
Counter, 181	Interval, 156
Кеу, 193	Lots, 156
Task list, 181	Setup, 156
Grouping Items, 132	Stock, 156
. 0	Text, 617
	Туре, 156
Н	Inspection Stock, 114
<u>''</u>	Instance, 43
Handling Unit Management, 39	Integration
Hazardous material number, 146	with other components, 35
Head office, 200	Interest calculation, 199
Highly Viscous, 107	Interim storage
HIPAA, 611	Area, 164
Historical	<i>Type,</i> 152
Material consumption, 443	Interim storage type, 56
Period, 455	Internal
Value, 455	Assignment, 343
Holding company, 45	Confirmation, 391
House bank, 206	Document, 403

Number assignment, 412, 614	Inward goods movement, 53
Transfer, 463	ISO
International Bank Account Number, 197	9000, 611
International Chamber of Commerce, 210	Certification, 196
International Organization for Standardization	Issuing material to scrap, 503
(ISO), 106	Item category, 331, 346, 348, 373, 378, 379
Internet, 301	419, 423
Interoperation Time, 128	Item number, 371
Inventory, 187, 466, 468, 470, 473, 476, 477,	
495, 505, 511, 521, 522, 527, 529, 565	
Accuracy, 468	J
Adjustments, 522	
Balance, 512, 523, 533	JDEdwards, 65
Control, 509	JetForm, 367
Costs, 521	Just-in-time (JIT), 519
Count, 522, 523, 527	Delivery schedule, 165
Count sheet, 527	Inventory, 463
Department, 492	11110111011, 105
Difference, 523, 529, 530, 533	
Document, 530	I/
Inaccuracies, 522	K
Initial load, 512	KANBAN, 164
Movement, 464	Containers, 90
Record, 577	
Reduction, 497	Key performance indicator (KPI), 41
Sampling, 521, 534	Keyword, 596
Status, 522	
Turns, 41	
User, 471	L
Inventory Management, 65, 144, 151, 248,	T 1 1 445
430, 463, 486, 488, 581	Label, 147
Invoice, 41, 157, 204, 208, 213, 232, 306,	Form, 147
	Type, 147
424, 537–542, 544–546, 548, 551, 553–555,	Laboratory/Design Office, 104
557, 558, 569, 620	Last in, first out (LIFO), 179, 559, 560, 562,
Amount, 548	564, 565, 574, 576
Blocks, 555	Method, 564
Blocked, 550	Pool, 179
Date, 538	Relevant, 179
Manual release, 555	Valuation, 559, 560, 562, 563, 565
Posting, 545	Lawson, 65
Prices, 177	Layer, 562
Receipt, 331, 583	Quantity, 562
Review, 555	Value, 562
Invoice Verification, 41, 65, 71, 76, 537, 542,	Leading zeros, 67
555, 558, 581	Indicator, 68
Good Receipt-Based, 212	Lean WM, 145
Invoicing, 189	

Legacy, 65, 66, 187	Manufacturer Data, 114
Data, 89	Manufacturer Part, 92
Files, 89	Number, 116
Numbering, 66	Manufacturing, 441, 488, 503, 510, 519
System, 70, 141, 511	Operation, 514
Legal Dunning Procedure, 207	Process, 237, 514
Legal entity, 43	Market price, 568, 575
Legal jurisdiction, 371	Master data file, 65
Lexicographical indicator, 67, 68	Master production scheduling, 429
Link documents, 243, 245	Master record, 611
Loading Group, 136	Matchcode, 197, 245, 352, 353, 606
Logistics, 38, 39, 41	Material, 50, 52, 59, 65, 66, 76, 79-81, 146,
Definition, 38	161, 164, 182, 189, 201, 206, 213, 214, 218,
Function, 38	241, 252, 259, 266, 267, 272, 273, 276, 279,
Material Management, 39	292, 314, 322, 324, 327, 334, 343, 351, 363,
Logistics Information System (LIS), 41	375, 382, 386, 389, 392, 413, 415, 430, 444,
Long-term agreement, 381	451, 457, 459, 463, 468, 505, 507, 518, 542,
Long-term forecast, 463	559, 574, 613
Lot size, 161, 171, 181, 182, 275, 444, 445,	Acceptance, 505, 517
449	Account, 499
Calculation, 161, 162, 432	Balance, 559
Data, 161	Batch, 238
Key, 162	Counts, 526
Lot-for-lot, 445	Defect, 469
Procedure, 161, 444	Discrepancy, 529
Sizing, 445	Document, 147, 241, 463, 465, 470, 472,
Lower tolerance, 548	473, 489, 498–501, 508, 509
Lowest mean absolute deviation, 459	
	Flow, 38, 40
Lowest price quotation, 364	Group, 69, 76, 214, 322, 330, 335, 346,
Lowest value, 569	348
Determination, 178, 567, 573	Incorrect, 469
Lowest value principle (LVP), 567, 573	Issue, 499, 500
LVP, 567, 568, 573, 574, 575	Ledger, 176
	Level, 80
	Movement, 176, 463, 465, 466, 489, 501, 523
M	Overdelivery, 469
Maintananca Accambly 02	Posting, 238
Maintenance Assembly, 92	Price, 568
Maintenance order, 143, 144, 328	
Manual	Quality, 497
Block, 548	Receipt, 509
Initialization, 456	Requirements, 328, 429, 451
Reorder-point planning, 442	Samples, 497
Reservation, 475, 476	Shortage, 165
Manual Batch Determination, 164	Status, 464
Manufactured product, 165	Stock, 179, 522
Manufacturer, 116, 239	Tolerance, 240

Type, 176, 178, 261, 412, 562, 569, 579	Materials Management (MM), 43, 51, 52, 55,
Valuation, 576, 579	57, 65, 69, 83, 249, 269, 281, 298, 409, 449,
Value, 177, 559	488, 489, 503, 577, 603
Value change, 562	Material service group, 413
Material Authorization Group, 156	Material Statistics Group, 133
Material Description, 102	Material Type, 69, 81, 90, 94, 137
Material Group, 103, 133, 221, 224, 225	Changing, 96
Freight, 111	Standard, 90
Material ledger, 577-581, 584-588	Maximum bin quantity, 154
Material Master, 65–67, 69, 88, 89, 101, 141,	Maximum lot size, 162
143, 147, 149, 155, 158, 175, 178, 180, 187,	Maximum storage period, 148
226, 261, 263, 270–273, 276, 277, 280, 334,	Mean
411, 413, 429, 433, 444, 445, 453, 457, 562,	Absolute deviation, 457
585, 588, 590, 603, 604, 616	Price, 364
Deletion, 267	Quotation, 363, 365
Fields, 187	Value, 451, 453
Files, 261	Mechanical engineering, 90
Transaction, 261	Medicines and Healthcare Products Regulatory
Material Master Record, 89, 97, 100, 189,	Agency, 238
218, 238, 329, 334, 429, 430, 442, 445, 453,	Message, 540
494, 499, 579, 580, 583, 616	Creation, 394
Schedule, 98	Log, 540, 541
Special, 98	Queue, 394
Material number, 66–68, 74, 76, 214, 263,	Military Goods, 120
329, 348, 371, 412, 429, 465, 490	Minimum
Automatically assigned, 66, 67	Bin quantity, 154
Range, 68	Lot size, 162
Material price, 542	Remaining shelf life, 148
Analysis, 582	
	Safety stock, 165 Value quotation, 364
Determination, 581, 582	
Material Pricing Group, 133	Minimum Delivery Quantity, 131
Material requirements planning (MRP), 40,	Percentage, 114
116, 141, 158, 171, 273, 276, 310, 327, 341,	Minimum Order Quantity, 131
441, 443, 448, 449, 475, 476, 489 Area, 494	Minority Indicator, 201
·	
Controller, 161, 265, 328, 335, 434, 437	Owned, 590
Fields, 433	Owned business, 366
Group, 159	Vendor, 201
Indicator, 434	Minority-owned business, 201
List, 434, 435, 437, 438, 476	Miscellaneous goods receipt, 513
Parameter, 160	Mixed MRP, 169
Profile, 99	Model Selection, 123
Requirement, 166, 171	Field, 456
Type, 160, 161, 442, 443, 445, 449	Mode of transport, 214
Materials, 69, 70	Monitoring confirmation, 402
Materials deployment, 174	Monthly consumption, 430
	Movement, 177

Indicator, 476, 479	0
Rate, 572	<u> </u>
Reason for, 471, 472	Object, 200, 214, 232, 589, 590, 597, 598,
Type, 148, 173, 249, 465, 466, 468, 470,	599, 600–604, 606–609, 611, 616, 617, 619
471–473, 475, 481–484, 489, 491, 492,	Dependency, 602
495, 496, 507, 512, 514, 515, 560, 566	Туре, 598
Moving average model, 455	Obsolete, 452
Moving average price, 177, 500, 585	Occupational category, 589
Control, 586	Office of entry, 214
MSDS, 616	Offsetting adjustment, 529
File, 611, 619	Old Material Number, 103
Multi-level price determination, 583, 585	One-step procedure, 480–483
Multi-national groups, 577	One-step removal, 152
Multiple account, 380	One-time vendor, 72
Multiplier, 122	On-time
	Delivery, 316
	Performance, 304
N	Operating Supplies, 92
<u></u>	Operation, 76, 141, 164, 327, 328, 429, 493,
National account number, 197	494, 503, 521
National Motor Freight Traffic Association,	Time, 494
194	Optimization level, 124, 456
Negative seasonal trend, 453	Optimum lot-sizing procedure, 162
Negative Stock in Plant, 136	Order, 213
Negotiated price, 305, 306	Acknowledgement, 390, 391, 392
Net price, 76	Currency, 210
Net price field, 362	Settlement, 581
Net-requirement	Туре, 373
Calculation, 432	Ordering address, 218
Quantity, 432	Ordering costs, 162
Network, 475, 611, 619	Order-to-delivery, 463, 486
Non-batch managed, 238	Order Unit, 111
Non-food items, 94	Organization, 66
Non-moving item, 178	Organizational Levels, 99, 100, 429
Non-stock	Organizational structure, 45, 47, 51, 55, 64
Item, 76, 327	Origin group, 181
Material, 328	Outline agreement, 309–313
Non-Stock Material, 76, 93	Outline purchase agreement, 381, 382, 407
Non-Valuated Material, 93	Out of tolerance, 239
Non-variant part, 169	Output format, 395
Non-working day, 431	Output message, 394
Number assignment, 345, 612	Overall functionality, 35
Number range, 68, 69, 74, 75, 76, 77, 81,	Overall limit, 419
282, 284, 288	Over-Delivery Tolerance, 113, 127
Numeric material numbers, 67	Overhead cost, 181

P	Document number, 529, 530
	Physical inventory, 146, 147, 468, 519, 521
Packaging, 147	524, 526, 527, 529, 534, 536
Packaging Material, 94	Account, 533
Palletization, 152	Count, 522, 523
Parameter Optimization, 124	Count document, 523
Parked, 544	Count sheet, 522, 525, 526
Status, 544	Document, 527
Partner	Picking, 52, 55, 145, 154
Bank type, 198	Area, 145
Function, 217, 218	Quanty, 154
Partner functions, 71, 86	Storage type, 150
Payment	Ticket, 499
Block, 205	Pipeline, 76, 222
Block keys, 205	Material, 93
Instructions, 196	Placement, 55
Method, 71, 205	Strategy, 52, 151
Period, 204	Planned
Process, 541	Count, 146
Program, 541	Delivery times, 170
Rules, 541	Goods issue, 489
Slip, 194	Movement, 475
Term, 71, 204	Order, 116, 165, 173, 328, 432, 436
Transaction, 196, 197	Order reduction, 173
P-card, 42	Production, 443, 445, 447
Percentage	Purchase, 443, 445, 447
Assignment, 380	Requirement, 168, 444
Basis, 364	Planner, 432
Discount, 570, 573	Planning, 589
Limit, 545	Area, 275
Value, 548	Calendar, 161, 430
Performance capability, 365, 369	Cycle, 161, 445
Period, 577, 582, 583	Department, 160, 161, 162, 165, 169,
Indicator, 121, 148, 167, 430	170, 173, 310, 328, 390
Periodic unit price, 577	File, 432
Periods	Function, 168
Fixed, 122	Group, 200
Forecast, 122	Material, 169
Historical, 122	Method, 427, 429
Perishables, 94, 106	Plant, 169
Personnel number, 203	Procedure, 444
Pharmaceutical, 88, 90	Process, 432, 434, 436
	Result, 434, 438
Products, 118	Run, 161, 168, 328, 432, 434, 445
Industry, 79, 237, 238, 239	Strategies, 168, 169
Physical count, 526, 527	9
Document, 527, 532	Time fence, 161

Туре, 275	Procedure, 195, 211, 228
Plant, 43, 48, 49, 51, 52, 54, 59, 62, 66, 79-	Scale, 313
81, 141, 145, 148, 153, 155–157, 164, 267,	Processing Time, 127, 456
270, 272, 276, 308, 309, 311, 312, 335, 373,	Processing Time/Base Quantity, 136
375, 386, 387, 431, 432, 463, 464, 474, 480,	Process order, 248
482, 483, 486, 503, 521, 524, 534, 543, 562,	Procurement, 40, 65, 157, 162, 164, 441
569, 582	Cost, 364
Engineering, 90	Cycle, 157
Level, 80, 273	Proposal, 432, 434, 436, 443-445
Stock level, 434, 509	Type, 164
Transfer, 483	Product, 461
Plant maintenance	Cost estimate, 182
Department, 141, 143	Recall, 239, 241, 259, 469, 487
Plant Maintenance (PM), 82, 83, 328, 433	Product Attributes, 134
Plant-Specific Material Status, 111	Product Hierarchy, 104
Points, 318	Production, 80, 82, 164, 165, 168, 172, 267,
Postal code, 191	278, 298, 382, 432, 439, 449, 455, 488, 489,
Posting	494, 505, 511, 513, 515, 516, 519, 577
Date, 530, 538	Date, 148, 240
Invoice, 545	Department, 161
Movement type, 531	Schedule, 40, 390, 529
Period, 167	Storage location, 164
Posting Block Indicator, 523	Version, 171, 273, 274, 275, 276
Posting difference, 56	Production order, 40, 76, 116, 162, 164, 181,
Post-office box, 192	248, 327, 328, 467, 468, 474, 487, 489, 491-
Precondition, 602	494, 498, 500, 501, 503, 505, 510, 513, 514,
Preference Status, 119	516, 536
Price	Number, 490, 510
Actual, 363	Routing, 327
Determination, 314, 583, 585	Settlement, 581
Difference, 581, 583	Production Planning (PP), 40, 48, 50, 61, 248,
Discounts, 364	439, 449, 503, 513
Effective Determination, 367	Production process, 164, 165, 181, 239, 409,
Fluctuation, 577, 586, 587	468, 492, 494, 495
Unit, 177	Production resources/tools (PRT), 91, 141-143
Value, 548	Production Scheduler, 125
Variance, 542, 546, 553	Production Scheduling Profile, 126
Calculation schema, 228	Production Storage Location, 126
Price comparision, 363, 365	Production Unit, 125
Selection criteria, 363	Product recall, 79
Price control, 177	Profile description, 82
Pricing, 537, 555	Profit Center, 136
Agreement, 313	Project, 368
Condition, 248, 258, 313	Segment, 170
Date Control, 211	Stock, 170, 176
Determination, 211	Public safety, 238

Purchase	Purchasing department, 189, 190, 204, 210,
Department, 381	211, 213, 214, 218, 220, 298, 301, 302, 304-
Document, 403, 405, 410	308, 313–315, 318, 321, 323, 324, 328, 335,
Group, 373	342, 343, 345, 349, 356, 359, 361, 363, 365-
Information record, 76-78, 542	367, 369–371, 374–376, 381, 382, 384, 386,
Line-item, 372	407, 424, 427, 436, 437, 439, 471, 515
Price, 312, 324	Points, 225
Purchase order, 76, 93, 115, 156, 157, 195,	Policies, 314, 324
206, 210, 211, 230, 231, 232, 292, 294, 295,	Tolerances, 227
298, 305, 306, 309, 312–314, 324, 328, 337,	Purchasing document, 211, 214
338, 343, 354, 356, 366, 371, 373–377, 379–	Category, 356
381, 386, 389, 390, 392, 394–396, 403, 404,	Purchasing group, 60
407, 409, 415, 419, 421–424, 437, 444, 468,	Purchasing information record, 221, 222,
470, 472, 475, 476, 505–507, 513, 515–517,	224–227, 230–232, 295, 569
537, 539, 540, 542, 546, 555, 569, 583, 584	Purchasing organization, 57–60, 71, 76, 86,
Acknowledgement, 391	189, 223, 224, 226, 284, 285, 289, 292, 293,
Canceling, 314	296, 308, 312, 318, 320–322, 345, 356, 363,
Creation, 390	365, 382, 386, 396
Date, 305	Data, 226
Number, 305, 371, 374, 422, 507, 513,	Push indicator, 174
517, 540	
Special terms, 305	
Text, 230	Q
Purchase requisition, 116, 213, 301, 302, 323,	<u>4</u>
1 dichase requisition, 110, 213, 301, 302, 323,	
	Oualify for Free Goods Discount, 111
327–331, 333–338, 341–343, 354, 371, 382,	Qualify for Free Goods Discount, 111 Quality, 316
	Quality, 316
327–331, 333–338, 341–343, 354, 371, 382, 384, 403, 404, 432, 435–437 Assign automatically, 339	Quality, 316 <i>Assurance, 157, 238</i>
327–331, 333–338, 341–343, 354, 371, 382, 384, 403, 404, 432, 435–437	Quality, 316 Assurance, 157, 238 Certificate, 157
327–331, 333–338, 341–343, 354, 371, 382, 384, 403, 404, 432, 435–437 Assign automatically, 339 Assign manually, 339	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238
327–331, 333–338, 341–343, 354, 371, 382, 384, 403, 404, 432, 435–437 Assign automatically, 339 Assign manually, 339 Follow-on functions, 338	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241
327–331, 333–338, 341–343, 354, 371, 382, 384, 403, 404, 432, 435–437 Assign automatically, 339 Assign manually, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156
327–331, 333–338, 341–343, 354, 371, 382, 384, 403, 404, 432, 435–437 Assign automatically, 339 Assign manually, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190,	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512,
327–331, 333–338, 341–343, 354, 371, 382, 384, 403, 404, 432, 435–437 Assign automatically, 339 Assign manually, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553
327–331, 333–338, 341–343, 354, 371, 382, 384, 403, 404, 432, 435–437 Assign automatically, 339 Assign manually, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620 Condition, 227	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495
327–331, 333–338, 341–343, 354, 371, 382, 384, 403, 404, 432, 435–437 Assign automatically, 339 Assign manually, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495 Inspection text, 499
327–331, 333–338, 341–343, 354, 371, 382, 384, 403, 404, 432, 435–437 Assign automatically, 339 Assign manually, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620 Condition, 227 Consultant, 301 Cost, 162	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495 Inspection user, 156
327-331, 333-338, 341-343, 354, 371, 382, 384, 403, 404, 432, 435-437 Assign automatically, 339 Assign manually, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620 Condition, 227 Consultant, 301 Cost, 162 Data, 110, 139, 209	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495 Inspection user, 156 Inspection worklist, 245
327-331, 333-338, 341-343, 354, 371, 382, 384, 403, 404, 432, 435-437 Assign automatically, 339 Assign manually, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620 Condition, 227 Consultant, 301 Cost, 162 Data, 110, 139, 209 Function, 402	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495 Inspection user, 499 Inspection worklist, 245 Notification, 156
327-331, 333-338, 341-343, 354, 371, 382, 384, 403, 404, 432, 435-437 Assign automatically, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620 Condition, 227 Consultant, 301 Cost, 162 Data, 110, 139, 209 Function, 402 Group, 76, 330, 333, 335, 345, 356, 382	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495 Inspection user, 156 Inspection worklist, 245 Notification, 156 Performance, 304
327-331, 333-338, 341-343, 354, 371, 382, 384, 403, 404, 432, 435-437 Assign automatically, 339 Assign manually, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620 Condition, 227 Consultant, 301 Cost, 162 Data, 110, 139, 209 Function, 402 Group, 76, 330, 333, 335, 345, 356, 382 Information, 157	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495 Inspection user, 156 Inspection worklist, 245 Notification, 156 Performance, 304 Requirement, 155
327-331, 333-338, 341-343, 354, 371, 382, 384, 403, 404, 432, 435-437 Assign automatically, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620 Condition, 227 Consultant, 301 Cost, 162 Data, 110, 139, 209 Function, 402 Group, 76, 330, 333, 335, 345, 356, 382	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495 Inspection text, 499 Inspection worklist, 245 Notification, 156 Performance, 304 Requirement, 155 Testing, 245
327-331, 333-338, 341-343, 354, 371, 382, 384, 403, 404, 432, 435-437 Assign automatically, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620 Condition, 227 Consultant, 301 Cost, 162 Data, 110, 139, 209 Function, 402 Group, 76, 330, 333, 335, 345, 356, 382 Information record, 311, 313, 314	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495 Inspection text, 499 Inspection worklist, 245 Notification, 156 Performance, 304 Requirement, 155 Testing, 245 Testing document, 243
327-331, 333-338, 341-343, 354, 371, 382, 384, 403, 404, 432, 435-437 Assign automatically, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620 Condition, 227 Consultant, 301 Cost, 162 Data, 110, 139, 209 Function, 402 Group, 76, 330, 333, 335, 345, 356, 382 Information, 157 Information record, 311, 313, 314 Output, 395, 410	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495 Inspection text, 499 Inspection user, 156 Inspection worklist, 245 Notification, 156 Performance, 304 Requirement, 155 Testing, 245 Testing document, 243 Quality Management, 40, 155–157, 195, 280
327-331, 333-338, 341-343, 354, 371, 382, 384, 403, 404, 432, 435-437 Assign automatically, 339 Follow-on functions, 338 Indirect, 328 Non-stock material, 328 Purchasing, 35, 57, 66, 71, 86, 89, 189, 190, 193, 217, 238, 261, 277, 432, 439, 620 Condition, 227 Consultant, 301 Cost, 162 Data, 110, 139, 209 Function, 402 Group, 76, 330, 333, 335, 345, 356, 382 Information, 157 Information record, 311, 313, 314 Output, 395, 410 Process, 542	Quality, 316 Assurance, 157, 238 Certificate, 157 Control, 238 Department, 156, 157, 241 Information, 156 Inspection, 156, 241, 470, 480, 509, 512, 514, 521, 522, 553 Inspection stock, 495 Inspection text, 499 Inspection worklist, 245 Notification, 156 Performance, 304 Requirement, 155 Testing, 245 Testing document, 243

Formula, 143	Reference Material, 121
Partial, 509	Reference Plant, 121
Variance, 546, 553	Reference quotation, 363
Quantity Stipulations, 131	Region, 191
Quota arrangement, 115, 311, 312	Code, 49
Quotation, 304, 313, 314, 345, 347, 348,	Origin, 118
361–363, 365–367, 369, 370, 382, 384	Regression analysis, 458
Comparison, 364	Regulatory body, 238
Deadline, 348, 353	Rejection letter, 367
Price comparison, 363	Rejection of RFQ, 395
Rejection, 367, 368	Release, 36, 37, 243, 386
	Code, 355, 404
	Condition, 404
R	For payment, 200
<u></u>	Group, 200, 355, 404
R/2, 36	Indicator, 405
Random variation, 457	Order, 381, 386, 389
Range of coverage, 166, 568, 570, 572, 575	Policy, 410
Value, 570	Procedure, 354, 403
Range of values, 590, 591, 607	Purchase requisition, 403
Rate-based planning, 275	Status, 243
Raw material, 93, 165, 301, 322, 515, 522,	Strategy, 355, 404, 410, 419
559	Reminder letter, 206
Real-time reports, 463	Removal strategy, 151
Reason code, 350	Reorder
Reason for movement, 471, 496	Level, 433, 442
Rebate, 225	Point, 429, 441, 442, 449
Arrangement, 225	Point planning, 161
Recall, 239	Quantity, 161
Receipt days' supply, 432	Reorder-point planning, 441, 443
Receipt note	Repetitive manufacturing, 172, 275, 382
Individual goods, 509	Indicator, 172
Receipt of material, 505, 516	Profile, 172
Receiving dock, 333	Repetitive manufacturing profile, 172, 173
Receiving plant, 80, 483, 484	Replacement Part, 135
Recipe, 245	Replenishment quantity, 154, 433
Recipient type field, 202	Request for information, 307
Reconcile, 200	Request for quotation (RFQ), 189, 293, 302,
Reconciliation, 200	343–346, 348, 351–357, 359, 361, 363, 365–
Account, 71, 199, 200	368, 395, 403, 415
Recount, 529	Date, 345
Document, 529	Delivery schedule, 348
Material, 529	Document number, 345
Physical inventory document, 529	Number, 352, 353, 363
Tranasction, 529	<i>Type, 344</i>
Recycling, 469, 487	Requirement
Re-engineering, 463	For confirmation, 391

Quantity, 432	Dynamic, 166
Situation, 435	Level, 435, 442
Tracking number, 336, 346, 352	Range, 165
Requisition, 384	Sales, 134
Requisitioner, 304, 307, 308, 327, 329, 333–	Order, 377, 475, 522, 536
337	Order stock, 176
Reservation, 474–477, 479, 480, 487–489	Sales and Distribution (SD), 40, 248, 280
Automatic, 474	Sales Data, 139
Creation, 474	Sales organization, 66, 261, 267, 270, 277,
Date, 479	296
Definition, 474, 487	Sales Organization, 89, 128, 129
Line item, 479	Sales Unit, 129
Stock transfer, 474	Sample
Retention	Material for, 497
Days, 478, 480	Test, 497, 502
Period, 479	Sampling, 468, 489, 498, 501
Return, 267, 467, 473, 488	Account, 497
Agreement, 225	SAP Query, 402
Clause, 469	SAP Customer Relationship Management, 45
Delivery, 469, 473	SAP EarlyWatch, 44
Policy, 366	SAP NetWeaver Business Warehouse, 45
Process, 488	SAPscript, 357, 367
Returnable Packaging, 93, 469	Sarbanes-Oxley Act, 611
Return Material Authorization, 469	SCAC code, 195
Revaluate, 577	Scale, 229, 313, 417, 418
Revaluate stock, 577	Schedule
Revaluation, 581	Date, 553
Reverse logistics, 469	Delivery, 445
Reverse movement type, 481	Line, 432, 436
Revision level, 276, 277, 613	Manager, 541
Assignment, 613	Variance, 553
Number, 276	Scheduling agreement, 116, 309, 310, 313,
RFQ, 230, 304, 308	314, 356, 381, 382, 384, 386, 387, 395, 403,
Right-justified, 67	437, 569
Rough-cut planning, 150, 275	Number, 382
Rough goods receipt, 391	Schema group, 211
Rounding error, 177	Scope of list, 356
Rounding Profile, 131	Scoring
Rounding quantity, 154	Criteria, 320
Routing, 327, 493, 503	Method, 316, 317
	System, 320
	Scrap, 162, 193, 489, 494-496, 501-503
S	Account, 495
	Costs, 495
Safety	Material, 494–496, 502
Time, 166	Quantity, 493, 494, 503
Safety stock, 165, 166, 442	Procedure, 495

Search	Number, 412, 421
Criteria, 606	Purchase order, 421
Parameters, 242	Sheet entry, 421
Procedure, 248, 258	Specification, 411, 419
Strategy, 248, 258	Туре, 415
Term, 190	Service-agent procedure group, 195
Tool, 608	Service-Based Invoice Verification, 214
Туре, 251	Service Master, 411, 413, 415
Seasonal	Services, 91
Cycle, 122	Settlement of production orders, 583
Elements, 457	Settlement rule, 275
Fluctuation, 456	Setup Time, 127, 136
Forecast model, 455	Shelf life, 148, 240
Index, 457	Characteristics, 144, 184
Market, 453	Data, 147
Model, 452, 455, 459	Date, 240
Pattern, 453, 458	Shipping Data, 135
Trend model, 453, 459	Shipping Instructions, 114
Second order trend model, 455	Ship-to address, 305
Selection	Significance test, 456
Criteria, 250, 357, 365, 396, 477, 555,	Simple algorithm, 197
564, 569, 572, 573	Simulation, 540
Field, 250	Single account assignment, 379
Method, 171	Single-level
Procedure, 123, 456, 458	Price determination, 583, 584
Туре, 250	Single source, 307, 308, 312, 343
Sell by batch, 259	Single sourcing, 307, 308, 463
Semi-automatic criteria, 321	SLED, 148, 241
Semi-finished, 76	Rounding rule, 148
goods, 81, 91	Slow movement, 572
Serialized, 82	Smallest mean absolute deviation, 456
Serializing procedures, 83	Smoothing factor, 456, 457, 459
Serial number, 82, 83, 84, 88, 137	Social Security number, 193
Master record, 82	Sole proprietor, 217
Profile, 82, 83, 84, 137	Sole Source Justification, 307
Usage, 83	Sort key, 200
Server, 43	Sort sequence, 250
Service, 59, 70, 76, 214, 222, 235, 301, 305,	Source, 310
314, 324, 325, 329, 331, 345–347, 363, 380,	Determination, 293, 310, 311
381, 386, 387, 411, 412, 417, 421, 425, 427,	List, 115, 307, 308, 310–312, 323, 374
429, 537, 555	Of supply, 309, 311, 312, 374
Bulletin, 612	Spare Parts, 91
Category, 412, 415	Special
Entry sheet, 403, 411, 422	Characters, 67
Financial posting, 413	Goods movement, 151
Level, 165	Movement indicator, 151
Management, 416, 417	Procurement key, 164

Status, 469	Indicator, 151
Stock, 521	Location, 144, 165, 261, 276, 277, 432
Specification, 245, 613	434, 463, 464, 474, 475, 480–485, 507
Splitting indicator, 168	521, 522, 524
Split valuation, 176	Location Level, 433
Standard	Search, 151
Report, 402	Section, 57, 145
Service Catalog, 415	Section search, 151
Text, 143	Strategies, 150
Standard Carrier Alpha Code, 194	Transfer, 483
Standard Occupation Classification System,	Type, 55, 150–152, 154
589	Unit handling, 152
Standard price, 69, 177, 500, 577, 583, 584	Storage bin, 52, 55-57, 144, 153, 154
Control, 583	Stock, 154
Statistical data, 232	Storage location, 43, 51-56, 62, 66
Status switch indicator, 613	address, 52
Stochastic, 548	Strategic alliances, 366
Block, 550, 551	Strategy
Stock, 51, 62	Group, 168
Account, 533	Type, 249–251
Available, 474	Street address, 191
Balance, 512, 583	Structural organization, 57
Blocked, 469, 470	Structured framework, 589, 607
Check, 83	Subassembly planning
Initial creation, 468	With final assembly, 169
In quality inspection, 469	Without final assembly, 169
In transit, 482-484	Subcontracting, 76, 222, 331, 346, 382
Level, 463, 499, 505, 509, 516, 522	Subcontractor, 328, 402
Movements, 436	Subcriteria, 316, 321
On-Hand report, 522	Subledger, 199, 200
Outs, 519	Subordinate class, 601
Overview, 464, 474	Subsequent settlement, 213
Placement, 151, 482	Superior class, 601
Plant, 508	Supplier, 70
Posting, 485	Supply chain, 38, 39, 41
Removal, 151, 154, 482	management team, 41
Requirements List, 434, 435, 438	Supplying plant, 483, 484
Reserved, 474	Surcharge, 313, 417
Slow moving, 483	Syntax, 602
Special, 481	
Special Stock indicator, 481	
Transfer, 156, 331, 382, 463, 480, 488	T
Transport scheduling agreement, 382	
Unrestricted, 469, 474, 482, 484	Takt time, 163
Storage	Target
Condition, 146	Dollar amount, 382
Costs indicator, 162	QM, 157

Quantity, 384 Value, 388	Tracking Limit, 123, 456 Trade definition, 210
Task	Trading goods
Group, 181	Partner, 193, 366
Group list, 181	Trading Goods, 91
List, 143, 144, 275	Transaction-based material price
Type, 182	determination, 585, 586 Transaction set, 391
Usage, 141	
Tax, 194, 229, 417	Transaction variances, 581
Amount field, 539	Transfer, 466
Calculation, 314	Between plants, 483
Condition, 314	Company code, 485
Details, 539	Plant-to-plant material, 485
Identification number, 193	Posting, 475, 480, 522, 583
Indicator, 413	Transport
Information, 192	Confirmation, 390
Jurisdiction code, 191, 194	Order, 330
Price, 178	Transportation, 308
Rate, 314	Transportation Department, 195
Regulations, 468	Transportation Group, 135
Туре, 193	Trend, 456–458
Taxable service, 413	Value, 457
Tax Data, 130	Trend model, 452, 455, 459
Tax Indicator for Material, 111	Trial posting, 540
Taxware, 191, 194	Two-step picking, 152
Technical specifications, 611, 619	Two-step procedure, 480, 482, 483
Temperature conditions, 145	Two-way match, 41, 213, 537, 542, 555
Terms and conditions, 359, 381	
Terms of delivery, 382	
Testing specifications, 79	U
Three-way match, 41, 306, 537	
Threshold value, 530, 531, 550	Unalterable log, 611
Time-phased planning, 161, 441, 444	Under-Delivery Tolerance, 113, 127
Tolerance, 204, 494, 529, 546	Unequal weighting, 318
For chemical materials, 497	Unique task list, 181
Group, 204	Unit of measure, 150, 169, 225, 334, 421,
Indicator, 546	617
Key, 546, 553	Unit price, 308, 583
Limit, 545-547	Universal Product Code (UPC), 106
Tolerance Data, 126	Unlimited Over-Delivery, 127
Total	Allowed, 113
Consumption, 430	Unplanned
Planning run, 159	Basis, 492
Price condition, 417	Consumption, 430
Replenishment lead time, 170	Goods issue, 492
Shelf life, 148	Issue, 489
	,

Service, 419, 422	VAT, 194
Unrestricted, 470, 521	Vendor, 40, 58, 59, 70-73, 76, 86, 157, 189,
Stock, 482, 483, 495, 514	218, 229, 238, 239, 241, 281, 315, 318, 327,
Unrestricted status, 81	341-343, 351, 353, 361, 363, 396, 424, 444,
Urging letter, 225	463, 468, 473, 505–507, 515, 517, 518, 537,
Usage decision, 156	539, 541–543, 548, 551, 555, 557, 589, 590,
Usage value formula, 143	608, 617, 620
U.S. Department of Transportation, 195	Account, 200
User group, 253, 255, 256	Account group, 75, 218
View, 253	Acknowledgement, 391
Use-tax responsibility, 193	Address, 351
1 3.	Batch number, 241
	Confirmation, 390
V	Evaluation, 314, 316, 318, 320, 324
<u> </u>	Name, 190, 196
Validation, 197	New, 302
Validity date, 227, 275, 310, 382	Number ranges, 282, 284
Range, 347	Numbers, 189, 198-200, 218, 289, 308
Validity period, 314, 415, 424	One-time, 295, 298
Valuated transaction, 582	Partner code, 217
Valuation, 175, 177, 179, 186, 559, 567, 577,	Purchasing data, 209
579	Recipient type, 202
Area, 560, 566, 572	Return material to, 469, 487
Category, 176	Selection, 351
Class, 176, 413, 569, 579	Sole, 189
Method, 567, 568, 573, 574, 575	Vendor Declaration Status, 119
Valuation level, 50, 51	Vendor Evaluation, 114
Valuation-relevant transactions, 581	Vendor Master, 65, 69, 70, 85, 189, 190, 192
Value	194, 203, 205, 218, 220, 226, 281, 282, 284,
Actual, 455	287-290, 292, 295, 296, 298, 617
Contract, 386, 388	Purchasing information, 209
Determination, 564, 568, 575	Record, 70, 71, 202, 204, 285, 286, 290-
Limit, 424	292, 295, 542, 617
Templates, 594	Renumber, 203
Update, 95	Vendor number, 74
Variable	Range, 74
Order Unit, 111	Vendor Sub-Range (VSR), 214, 225, 281, 295
Sales Unit, 130	Verification, 195
Variance, 318, 522, 545, 546, 548, 553	Level, 196
Location, 529	Version assigned automatically, 613
Percentage, 533	Version number, 245, 613
Positive, 560	Vertex, 191, 194
Types, 545	Volume Rebate Group, 133
Within tolerance limit, 545	
Variant Configuration, 39	

W

Warehouse, 43, 52, 55–57, 144, 151–154, 238, 495, 499, 509, 511, 521, 522, 565

Number, 267
Section, 522
Stock, 432

Warehouse Management (WM), 40, 52, 55, 144, 145, 149, 151, 152, 248

Movement type, 151
Unit of measure, 150

WBS element, 616

Weighted moving average model, 455
Weighting Group, 124
Weighting key, 315
Wholesaler, 308

Withdrawal, 467 Withholding tax, 199, 202 Women-owned business, 366 Work Center, 493 In process, 559 Scheduling, 238, 273 Workflow, 41 Working capital, 559 Work Scheduling, 89, 124

Y

Yearly inventory, 521, 534