
INDEX

A

Alerts. See Alert Monitor
Alert Monitor, 175–178
 Alert Profiles, 176–178
 Computer limitations, 283
 Configuration, 176–178, 309
 DP and quantitative analyses, 233, 235
 Exception messages, 56
 ICH and, 48, 287
 In PP/DS, 164
 Macros and, 197
 Macros and alert status, 201
 Planning Book, 202
 PP/DS planning run, 150
 Product, Network, 75
 Product Planning Table, 30, 223
 Signal for human intervention, 57
 SNP bucket capacity, 91
 SNP analyses, 256
 Supply Chain Cockpit, 166
 “Vanilla” SCM process and, 307
American Production and Inventory Control Society. See Association for Operations Management
APICS. See Association for Operations Management Association for Operations Management (APICS)
ASN. See Automated Shipping Notice
Automated Shipping Notice (ASN)
 ICH, 287
ATP. See Available to Promise
Available to Promise (ATP)
 CIF, 152, 153
 Only in Microsoft Excel if enabled through BW, 277
 PP/DS Planning Procedure, 82
 Product Master, 72, 74
 Product View, 171

B

B2B. See Business-to-Business
B2C. See Business-to-Customer
BAPI. See Business Application Programming Interface
Best Known Method (BKM)
 In DP, 251

 Keys—computational processes, 307
BEx. See Business Explorer
Big Bang
 Deployments, 54
Bill of Materials (BOM)
 Combined with Route in CIF to make PPM or PDS, 151
 Multilevel ATP Check, 82
 Pegging and, 24
 Procurement and, 113
 Production Process Models, 96–108, 120
BKM. See Best Known Method
BOM. See Bill of Materials
Bucket Capacity/Bucket Definition. See Resource
Business Application Programming Interface (BAPI)
 Virtual cubes, external systems and, 143
Business Explorer (BEx)
 Characteristic configuration, 141–142
 Query Designer, 279–280
 Using, 278–281
Business Information Warehouse (BW), 131–145;
 275–284
 Analytic master data elements, 136
 Archiving and reporting, 47–48
 As “data basis” for APO and SCM, 4, 11–13
 BEx, see Business Explorer
 Data Mart, 16–17, 138, 281
 DP, key role in, 42, 235
 Enterprise BW, 14, 281
 Integration in SCM platform, 5, 288
 Multidimensional structure, 276
 Object-based reporting, 276
 Query Designer, See Business Explorer
 Spreadsheets and Microsoft Excel, 34
 Standard SCM process and, 308, 310
 Star Schema and, 133
 User interfaces: Microsoft Excel and the web, 276
Business-to-Business (B2B)
 Context of in ICH, 285–287
 Relation to B2B, 285
Business-to-Customer (B2C)
 Capabilities in ICH, 288–290
 Concerns with SMI, 294
 Context of in ICH, 285–287
BW. See Business Information Warehouse

C

Calendar

- And Trend Analysis, 31
- Factory Calendar
 - Location, 65, 67–70
 - Resource, 86–87, 90
 - SNP, 76, 253

Cannibalization. See Forecast

Capable to Match (CTM)

- Available stocks, 79
- Background execution, 266
- Capacity and priority wise, 258–259
- Configuring, 263–266
- Location priority, 66
- Ockham's Razor and, 284
- Other computational processes and, 308
- PPM Prevention of Product Explosion Indicator, 104
- Priorities, 32, 77
- Profile, 263–265
- Product Master Settings, 78
 - Procurement, 84
 - SNP Product Horizon, 76
- Resource category, 85
- SNP planning engine, 54, 252
- Use in combination with heuristics, 257–258

Capacity Variant. See Resource

Causal Analysis. See Multiple Linear Regression

Characteristic

- BEx Query Designer and, 279
- InfoObjects and Key Figures, 141–142
- Lifecycle Planning, 247
- Planning Book, 180
- Planning Object Structure, 186
- Proportional factors, 238

CIF. See Core Interface

Collaborative Planning

- Alternative in APO to ICH, 48, 287, 294
- In supply chain data pipeline, 12–13
- Planning Book and, 179

Composite Analysis, 30–32

Consumption

- Bucket, 87, 89, 106
- GR/GI, 84
- Parts, 53
- Recourse, 69
- Requirement strategy, 78–81
- SNP, 76

Contract

- EPR, 111, 114
- ICH, 287
- Maintenance in R/3, 112
- Production Planning and, 204

Core Interface (CIF), 146–160

- APO integration with R/3, 11, 15
- DP, 231
- EPR, 111, 114–115
- liveCache, 19
- Location in configuration sequence, 309–310
- Master data, 64
- PP/DS, 205
- PPM, 99–109
- Quota Arrangements, not good for, 117
- SNP, 253
- Transportation lanes, 109
- XML and, 11, 48

Costing, 85

CRM. See Customer Relationship Management

CTM. See Capable to Match

Customer Relationship Management (CRM)

- BW Data Mart, 47, 275
- DP, 232

D

Data Mart

- BW in SCM, 8, 12–13, 16–17, 135–138
- DP, 235
- Versus enterprise, 275, 281–282

Data Mining

- BW, 17
- Enabled by Star Schema, 145
- Planning Book, 194

DCM. See Delivery Control Monitor

Delivery Control Monitor (DCM), 287

Decision Support System (DSS)

- APO as DSS for R/3, 146–147

Demand Planning (DP), 230–249

- Business Process, 232
- Diagnosis Group, 241–242
- Forecast
 - Cannibalization, 41, 43, 233, 236, 246
 - Judgment, 232, 235
 - Promotion, 32, 233
 - Unconstrained, 40, 44, 46
- Lifecycle Planning, 43, 236–237, 246–249
- Release to SNP, 233, 235, 259

See also: *Trend analysis, multiple linear regression, univariate analysis and composite analysis*

Dependent Requirements (DEPREQ)

- CIF, 149
- Relationship to independent requirements, 24
- MRP generated, 113
- PP/DS, 82

DEPREQ. See Dependent Requirements

Detailed Scheduling Planning Board, 225–229

- APO User Interfaces, 23
- Bottleneck resources, 87

DS Optimizer and, 211
 Relative UI Competence, 31
 Portal to other UIs: 170
 Profile, 228–229
 Simulation, 122, 124
 Truly module-specific, 28–30
 Dewey Decimal System, 131, 136
 Diagnosis Group. See DP
 DP. See Demand Planning
 DSS. See Decision Support System
Dune, 297

E

EAN. See European Article Number
 ECC. See Enterprise Common Core
 ECM. See Engineering Change Management
 EM. See Event Management
 Engineering Change Management (ECM), 107
 Enterprise Common Core (ECC)
 Upgraded R/3, 11
 OLTP and OLAP elements of, 133
 Enterprise Resource Planning (ERP)
 CIF and XML, 48
 Legacy, 21
 Lessons, 51–59
 R/3 and R/2, 14, 20
 Relationship to APO, 146
 Strategic errors and, 50
 ERP. See Enterprise Resource Planning
 EPR. See External Procurement Relationships
 European Article Number (EAN) , 73
 Event Management (EM)
 Application in SCM, 11
 Inventory visibility, 8, 311
 RFID, 8
 Excel. See Microsoft Excel
 Exception-based Planning
 Alert Monitor, 175
 Basic APO approach, 56, 283
 Extensible Markup Language (XML)
 ICH connection with R/3, 20, 48, 288,
 294–295
 Relationship with CIF, 11
 External Procurement Relationships (EPR)
 “Automated transportation lanes”, 111
 Info record and contract, 114–115
 Master data configuration, 111–116
 Scheduling Agreements, 115–116

F

Fact Table. See Star Schema
 FC Req. See Planned Independent Requirements
 Finiteness Level. See Resource

Flexible Planning
 MRP and, 149–150
 Predecessor to APO, 15
 Forecast. See Demand Planning
 Forecast and Replenishment
 Application in SCM, 8, 11, 12
 Forecast Requirements (FC Req). See Planned
 Independent Requirements
 Frank Herbert, 297
 Free Trade Zone, 35

G

Gantt, 226
 GATP. See Global Available to Promise
 Global Available to Promise (GATP)
 Module of APO, 5, 14, 284
 Goods Receipt/Goods Issue (GR/GI)
 Product Master, 72, 84
 SNP GR, 261
 GR/GI. See Goods Receipt/Goods Issue

H

Heuristic
 MRP, 32
 Product Master Settings, 76–78
 Product View / Product Heuristic / Variable
 Heuristic, 26, 170–172
 PP/DS, 31, 39, 211–222, 225, 228, 251,
 Rules, rule based, 32, 57
 SNP, 31, 45, 258–262, 268, 271
 Horizon, 25, 28, 36, 37, 41, 46–47, 76–78,
 82–83, 122, 133, 150, 167, 175, 176, 181,
 185, 189, 202–203, 210–211, 218–220,
 223, 226, 238, 244, 251, 257, 262–263,
 300–303

I

ICH. See Inventory Collaboration Hub
 IDoc, 143, 152
 IM. See Inventory Management
 IMG. See Implementation Guide
 Implementation Guide (IMG)
 APO Customizing, 81–82
 Configuration sequence, 309–310
 CIF Configuration, 148, 310
 PP/DS, 216, 220, 222, 228
 SNP, 261
 INDREQ. See Planned Independent Requirements
 Info Record, 114
 Inventory Collaboration Hub (ICH), 285–295
 Application in SCM, 4, 5, 11, 20
 CIF and XML, 48
 External collaboration, 48, 311

ICH. See Inventory Collaboration Hub (*Continued*)
 Output towards POR, 308
 SNP, 256
 Inventory Management (IM)

J

Judgment. See Forecast

K

Kanban, 287
 Key Figure
 DP Release to SNP, 259
 InfoCatalog and, 141
 Master forecast profile, 244
 MLR, 241
 Planning Area / Planning Book, 185, 188–190,
 194, 196
 Proportional Factor, 237–238
 Query Builder, 280
 Star Schema, 133–134
 Univariate forecast, 240
 Key Log, 287–288

L

Law of Diminishing Returns
 Application of rules and costs, 258
 As Raison d'être for PP/DS, 213
 Lifecycle Planning. See Demand Planning
 Linear Optimization. See optimization
 liveCache
 As component of APO, 14, 17–20
 CIF Integration Model, 156–158
 Consistency, 20, 158–160
 Errors, 160
 Order-based / Time-Series, 19, 30
 PPM, 106

M

Macro
 Macro Workbench, 196–202
 MacroBuilder, 43, 45
 Planning Table, 201
 Mass Maintenance, 9–10
 Master Data,
 Analytical, 131–145 (DataSource, Extractor,
 InfoArea, InfoCube, InfoObject, InfoObject
 Catalog, InfoPackage, InfoSource)
 Supply Chain, 63–130
 Master Production Schedule (MPS)
 Local and cross-geography, 43–44
 Outcome of master scheduling, 39
 PP/DS, tactical, 203

Requires demand as seed, 232
 SNP and APICS, 43
 Materials Requirements Planning (MRP)
 BOM and BOM explosion, 113
 Flexible Planning and, 149–150
 Heuristics and, 257
 In R/3, 15
 In supply chain management, 52
 PP/DS Heuristic, 212
 PP/DS Strategy Profiles, 219
 Requirements Strategy, 78, 260
 SNP, 253, 258
 MDM. See Master Data Management
 Microsoft Excel
 Difference between SCM and, 34
 Reporting engine for BW and BEx, 16, 139,
 275–280
 Similarity with Planning Book, 197
 Mid-range Planning, 36–39
 PP/DS, 208
 MM. See Materials Management
 MLR. See Multiple Linear Regression
 Model/Version
 Active, 69, 85, 88, 100, 120–124, 232, 238, 244,
 253–254, 310
 Inactive, Simulation, 122–124
 MPS. See Master Production Schedule
 MRP. See Materials Requirements Planning
 Multiple Linear Regression (MLR)
 DP, 31–32
 Forecast Profile, 239, 241
 Master Forecast Profile, 244
 Multivariate Analysis. See Multiple Linear
 Regression

N

nMPS. See network Master Production Schedule
 network Master Production Schedule (nMPS),
 As extension of MPS for SNP concept, 44, 301,
 304
 PP/DS, 210
 Normalization, 133

O

Ockham's Razor, 283
 OLAP. See Online Analytical Processing
 OLTP. See Online Transaction Processing
 Online Analytical Processing (OLAP), 16–17, 33,
 131–138, 142–145, 251
 Online Transaction Processing (OLTP), 33, 132
 Optimizer
 DS, 29, 47, 87, 124, 204–205, 210, 224–228, 251
 SNP, 31, 33, 45, 91, 252–253, 256, 266–271

P

PDS. See Run Time Object

Pegging

Classification, 74

Planning Book, 27

Using order or time-series based data, 18

Periodicities. See Planning Book

PIR . See Planned Independent Requirements

Planned Independent Requirements (PIR), 9, 78, 113, 149, 232, 254

APO, Forecast Requirements (FC Req), 126

R/3, Independent Requirements (INDREQ), 126

Planned Order, 18, 79, 82, 157

APO (PIOrd), 126, 170

R/3 (PLNORD), 126

Planning Board. See Detailed Scheduling Planning Board

Planning Area. See Planning Book

Planning Book, 27, 45,

Architecture, 180

Collaboration, 48, 294

Data View, 181

Periodicities, 181, 185–186, 189, 218

Planning Area, 36, 131, 181–189

Planning Object Structure, 181–186

Primary UI for DP and SNP, 138

PP/DS application of, 164, 178

Shuffler, 180

Storage Bucket Profile, 181, 185

Use and configuration, 178–202

Use in DP and SNP, 179, 235, 253

Planning Object Structure. See Planning Book

Planning Run, 32

Heuristic, 211

liveCache consistency and, 20

Rules, 57

PP/DS, 150, 171, 212, 307

SNP, 252, 257–271, 294, 307

Versus DS Optimizer, 224, 228

PLDORD. See Planned Order (R/3)

PIOrd. See Planned Order (APO)

PP. See Production Planning

Product Heuristic. See Product Master

Product Master

Product heuristic, 212

Product master data, 25–26, 71

Requirements strategy, 259

Time profile, 218

Product View

As a tool, 22

As a Stock Requirements List on steroids, 25, 167

Order-based, tabular view, 27, 167

Product heuristic. See Product Master

Tab, Elements, 173

Tab, Periods, 174

Universal applicability, 163

Variable heuristic, 213

Production Data Structure. See Run Time Object

Production Planning/Detailed Scheduling (PP/DS), 202–229

Business Process, 209

Heuristic Profile, 216

Optimization Profile, 225–226

Overall Profile, 228

Planning Board Profile, 226–228

Propagation Range, 216

Strategy Profile, 219

Time Profile, 218

User Interfaces, 222

Work Areas, 217

Production Process Model. See Run Time Object

Production Resource. See Resource

Production Version

CIF Processing, 154, 157

PPM and, 98–102, 108

R/3 Transaction, 108

Promotion. See Forecast

Propagation Range. See Production

Planning/Detailed Scheduling

PP/DS. See Production Planning/Detailed Scheduling

PPM. See Run Time Object

Pulp Fiction, 60

Purchase Requisition (PURREQ)

Fulfills component supply needs, 26

Product View and, 171

R/3 and, 126

PURREQ. See Purchase Requisition

Q

Quentin Tarrantino, 60

Query Designer. See Business Explorer

Quota Arrangement, 117–119

CIF not applicable to, 117

R

Radio Frequency Identification (RFID), 8

Event Management, 311

Inventory tracking, 53, 311

VMI, 285

Requirements Strategy

See also, Product Master

Resource, 84

Bucket Capacity/Bucket Definition, 89–91

Bottleneck, 87

Resource (*Continued*)

- Capacity Variant, 92
- Constraints, 302
- Data Categories, 85
- Definitions, 92
- Finiteness Level, 87–88
- Handling, 69, 84
- Resource View in Product Planning Table, 30
- Time Continuous Capacity, 88–91, 95
- R/3 work centers and, 69, 84
- Return on Investment (ROI), 6, 10
- RCCP. See Rough-cut Capacity Planning
- RFID. See Radio Frequency Identification
- RN. See RosettaNet
- ROI. See Return on Investment
- RosettaNet (RN), 288
- Rough-cut Capacity Planning (RCCP), 23
- Route (R/3), 44
 - R/3 to APO mapping, 99
 - With BOM, basis for PPM, 96
- RTO. See Run Time Object
- Run Time Object (RTO)
 - Production Data Structure (PDS), 96
 - PDS versus PPM, 108
 - Relation to RTO and PPM, 97
 - Production Process Model (PPM)
 - Activation, 105
 - Activities, 102
 - Components, 102–104
 - Modes, 104–105
 - Operations, 101
 - Plan and Plan Number, 101
 - Product Plan Assignment, 101
 - Resources (Primary and Secondary), 105–106
 - Structure, 109

S

- SA. See Scheduling Agreement
- Sales Order (SLSORD), 26
 - CIF and, 150
 - Dependent requirements and, 114
 - Firmness, 74
- Scheduling Agreement (SA)
 - APO SAs, 113, 115
 - R/3 SAs, 113, 115
 - Schedule Line, 126, 150
- SCC. See Supply Chain Cockpit
- Schedule Line. See Scheduling Agreement
- SCM. See Supply Chain Management
- SEM. See Strategic Enterprise Management
- Setup Matrix, 88, 93–95, 206–208

- Simulation. See Model/Version
- SLSORD. See Sales Order
- SMI. See Supplier Managed Inventory
- SNP. See Supply Network Planning
- SOP. See Sales and Operations Planning
- Star Schema, 133–135
 - Dimensions, 135
 - Fact Table, 133
- Strategic Enterprise Management (SEM), 47, 144, 275, 281
- Storage Bucket Profile. See Planning Book
- Supplier Managed Inventory (SMI), 287–291
- Supply Chain Cockpit (SCC)
 - Available to all modules, 22
 - Aerial, executive, geographic view of the supply chain, 24–25, 164
 - Click, right-click, 167
 - Model building tool, 235
- Supply Network Planning (SNP)
 - Business Process, 255
 - Planning Runs, 257–259
 - Bound Profiles, 270–271
 - CTM, 263–266
 - Heuristics, 261–263
 - Optimizer, 266–270
 - User Interfaces, 253 Sales and Operations Planning (SOP)
 - Legacy master scheduling, 203
 - Mid-range planning, 39, 208
 - network Master Product Schedule and, 301
 - SNP and, 38, 43, 45, 208, 251–252, 258
- SQL. See Structured Query Language
- SRL. See Stock Requirements List
- Stock Requirements List (SRL)
- Structured Query Language (SQL), 16, 132

T

- Tactical Planning
 - Conservative planning, 204
 - Detailed Scheduling or legacy, 257
 - Segue from mid-range planning, 36–37
- TCM. See Traditional Chinese Medicine
- Tibco, 288
- Time Fence
 - Fixing Horizon, 82
 - Frozen period and, 302
- Time Continuous Capacity. See Resource
- TLB. See Transport Load Builder
- TP/V.S. See Transportation Planning/Vehicle Scheduling
- Traditional Chinese Medicine (TCM), 65, 74, 86, 165
- Transactional Data
 - As stocks and bases (cooking), 4

- As events, 21–22
- Contrast with master data, 4
- DataSources and, 140
- Elements of, 124–126
- Fluid nature of, 15
- When not from R/3, 147
- Transportation Lane,
 - EPR and, 111
 - Maintenance, 108–111
- Transport Load Builder (TLB), 9, 14, 35, 297
- Transportation Planning/Vehicle Scheduling (TP/VS), 9, 14, 35, 69, 176
- Trend Analysis, 30–32, 168, 237

U

- Univariate Analysis, 30–32, 240–241
- Universal Product Code (UPC), 73, 285
- UPC. See Universal Product Code

V

- Variable Heuristic. See Product View
- Variant Configuration (VC), 107
- VC. See Variant Configuration
- Vendor Managed Inventory (VMI)

- Alerts, 176
- Collaborative Planning and, 13
- ICH and, 285–286
- Product Master, 69, 76, 84
- Role in SCM, 13–14, 20
- Version. See Model/Version
- VMI. See Vendor Managed Inventory

W

Web

- Collaboration tool for APO, 48, 294
- Collaboration tool for ICH, 48, 292
- e-Commerce and, 285
- Reporting engine for BW, 16, 139
- Work center
 - PP/DS scheduling, 46
 - PPM Modes and Resources, 104–106
 - R/3 settings, 84–85
- XML. See Extensible Markup Language

Z

- ZBB. See Zero-based Budget
- Zero-based Budget (ZBB), 277

