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Product Cost Controlling with SAP®

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Contents at a Glance

1  Introduction ................................................................. 21

PART I  Integrated Planning
2  Integrated Planning ......................................................... 31

PART II  Product Cost Planning
3  Controlling Master Data .................................................. 59
4  Material Master Data ....................................................... 101
5  Logistics Master Data ..................................................... 161
6  Costing Sheets .............................................................. 225
7  Cost Components ........................................................... 239
8  Costing Variant Components .......................................... 273
9  Costing Variant Tabs ....................................................... 333
10 Standard Cost Estimate .................................................. 355
11 Preliminary Cost Estimate ............................................... 379
12 Unit Cost Estimate ........................................................... 387

PART III  Cost Object Controlling
13 Preliminary Costing .......................................................... 397
14 Simultaneous Costing ....................................................... 405
15 Overhead ........................................................................... 425
16 Work in Process ............................................................... 429
17 Variance Calculation ......................................................... 453
18 Settlement ......................................................................... 473
19 Special Topics .................................................................... 499

PART IV  Information System
20 Information System .......................................................... 551

Appendices ............................................................................. 593
# Contents

Acknowledgments .................................................................................. 19

1 Introduction ....................................................................................... 21

1.1 Concept of this Book ................................................................. 21

1.2 Target Audience ......................................................................... 22

1.3 Structure of this Book .............................................................. 23

1.3.1 Part I: Integrated Planning ............................................. 23

1.3.2 Part II: Product Cost Planning ...................................... 23

1.3.3 Part III: Cost Object Controlling .................................. 26

1.3.4 Part IV: Information System .......................................... 27

1.4 Looking Ahead ........................................................................... 27

PART I Integrated Planning

2 Integrated Planning .......................................................................... 31

2.1 Profitability Analysis ................................................................. 32

2.2 Sales and Operations Planning ............................................... 33

2.3 Long-Term Planning ............................................................... 35

2.3.1 Create Planning Scenario ........................................... 37

2.3.2 Long-Term Planning Run ............................................. 38

2.3.3 Transfer Requirements to Purchasing ......................... 41

2.3.4 Transfer Activity Quantities to CCA ............................ 45

2.4 Cost Center Planning ............................................................... 47

2.4.1 Cost Element Planning ................................................ 48

2.4.2 Activity Price Planning ................................................ 50

2.5 Final Planning ........................................................................... 54

2.5.1 Calculate Standard Costs ........................................... 54

2.5.2 Transfer Standard Costs to CO-PA ............................... 55

2.6 Summary .................................................................................. 55
PART II  Product Cost Planning

3 Controlling Master Data ................................................. 59

3.1 Cost Element ............................................................. 60
  3.1.1 Primary Postings ............................................... 60
  3.1.2 Secondary Postings ........................................... 64
  3.1.3 Basic Data ........................................................ 65
  3.1.4 Indicators ......................................................... 68
  3.1.5 Default Account Assignment ............................ 69
  3.1.6 History ............................................................. 73

3.2 Cost Center ............................................................... 73
  3.2.1 Standard Hierarchy ........................................... 74
  3.2.2 Basic Data ........................................................ 78
  3.2.3 Control ............................................................. 82
  3.2.4 Templates ......................................................... 83
  3.2.5 Address and Communication ............................ 85
  3.2.6 History ............................................................. 85

3.3 Activity Type ............................................................. 86
  3.3.1 Basic Data ........................................................ 86
  3.3.2 Indicators ......................................................... 93
  3.3.3 Output ............................................................. 95
  3.3.4 History ............................................................. 96
  3.3.5 Group .............................................................. 97

3.4 Statistical Key Figure .................................................. 99

3.5 Summary .............................................................. 100

4 Material Master Data .................................................. 101

4.1 MRP 1 View ............................................................. 102
  4.1.1 General Data .................................................... 102
  4.1.2 Lot Size Data .................................................... 104

4.2 MRP 2 View ............................................................. 106

4.3 MRP 4 View ............................................................. 110
  4.3.1 BOM Explosion and Dependent Requirements ... 110
  4.3.2 Discontinued Parts ........................................... 114

4.4 Costing 1 View .......................................................... 115
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.4.1</td>
<td>General Data</td>
<td>116</td>
</tr>
<tr>
<td>4.4.2</td>
<td>Quantity Structure Data</td>
<td>120</td>
</tr>
<tr>
<td>4.5</td>
<td>Costing 2 View</td>
<td>128</td>
</tr>
<tr>
<td>4.5.1</td>
<td>Standard Cost Estimate</td>
<td>128</td>
</tr>
<tr>
<td>4.5.2</td>
<td>Planned Prices</td>
<td>130</td>
</tr>
<tr>
<td>4.5.3</td>
<td>Valuation Data</td>
<td>132</td>
</tr>
<tr>
<td>4.6</td>
<td>Accounting 1 View</td>
<td>138</td>
</tr>
<tr>
<td>4.6.1</td>
<td>General Data</td>
<td>139</td>
</tr>
<tr>
<td>4.6.2</td>
<td>Current Valuation</td>
<td>139</td>
</tr>
<tr>
<td>4.6.3</td>
<td>Previous Period/Year</td>
<td>142</td>
</tr>
<tr>
<td>4.6.4</td>
<td>Standard Cost Estimate</td>
<td>143</td>
</tr>
<tr>
<td>4.7</td>
<td>Accounting 1 View—Material Ledger Activated</td>
<td>144</td>
</tr>
<tr>
<td>4.7.1</td>
<td>General Valuation Data</td>
<td>146</td>
</tr>
<tr>
<td>4.7.2</td>
<td>Prices and Values</td>
<td>149</td>
</tr>
<tr>
<td>4.8</td>
<td>Accounting 2 View</td>
<td>152</td>
</tr>
<tr>
<td>4.8.1</td>
<td>Populate Tax Price and Commercial Price</td>
<td>153</td>
</tr>
<tr>
<td>4.8.2</td>
<td>Using the Tax and Commercial Price Fields</td>
<td>158</td>
</tr>
<tr>
<td>4.9</td>
<td>Summary</td>
<td>160</td>
</tr>
<tr>
<td>5</td>
<td>Logistics Master Data</td>
<td>161</td>
</tr>
<tr>
<td>5.1</td>
<td>Bill of Material</td>
<td>161</td>
</tr>
<tr>
<td>5.1.1</td>
<td>Basic Data</td>
<td>163</td>
</tr>
<tr>
<td>5.1.2</td>
<td>Status/Long Text</td>
<td>166</td>
</tr>
<tr>
<td>5.1.3</td>
<td>Administration</td>
<td>168</td>
</tr>
<tr>
<td>5.1.4</td>
<td>Document Assignment</td>
<td>169</td>
</tr>
<tr>
<td>5.2</td>
<td>Work Centers</td>
<td>170</td>
</tr>
<tr>
<td>5.2.1</td>
<td>Basic Data</td>
<td>171</td>
</tr>
<tr>
<td>5.2.2</td>
<td>Default Values</td>
<td>174</td>
</tr>
<tr>
<td>5.2.3</td>
<td>Capacities</td>
<td>177</td>
</tr>
<tr>
<td>5.2.4</td>
<td>Scheduling</td>
<td>179</td>
</tr>
<tr>
<td>5.2.5</td>
<td>Costing</td>
<td>184</td>
</tr>
<tr>
<td>5.3</td>
<td>Routing</td>
<td>186</td>
</tr>
<tr>
<td>5.3.1</td>
<td>Header</td>
<td>187</td>
</tr>
<tr>
<td>5.3.2</td>
<td>Operation Overview</td>
<td>190</td>
</tr>
<tr>
<td>5.3.3</td>
<td>Operation Details</td>
<td>190</td>
</tr>
<tr>
<td>5.4</td>
<td>Product Cost Collector</td>
<td>196</td>
</tr>
<tr>
<td>5.4.1</td>
<td>Data</td>
<td>198</td>
</tr>
</tbody>
</table>
5.4.2 Header ............................................................. 203
5.4.3 Production Process ........................................... 209
5.4.4 List Product Cost Collectors .............................. 212
5.5 Purchasing Info Record ......................................... 214
5.5.1 Purchasing Organization Data 1 ....................... 215
5.5.2 Conditions ....................................................... 216
5.5.3 Plant-Specific Purchasing Info Records .......... 219
5.6 Source List .......................................................... 221
5.6.1 Fixed Source of Supply .................................. 223
5.6.2 Blocked Source of Supply ................................. 223
5.7 Summary .............................................................. 223

6 Costing Sheets ............................................................. 225
6.1 Overhead ............................................................... 225
6.2 Calculation Base ..................................................... 227
6.3 Overhead Rate ............................................................ 228
6.3.1 Percentage Overhead .................................... 229
6.3.2 Quantity-Based Overhead ............................... 235
6.4 Credit Key .............................................................. 237
6.5 Summary .............................................................. 238

7 Cost Components ........................................................ 239
7.1 Cost Component Terms ......................................... 239
7.2 Cost Components with Attributes ........................... 243
7.2.1 Control ............................................................. 245
7.2.2 Filter Criteria for Cost Component Views .......... 247
7.2.3 Delta Profit for Group Costing ....................... 249
7.2.4 Cost Summarization ....................................... 250
7.2.5 Assign Cost Elements to Cost Components ....... 251
7.2.6 Update of Additive Costs ............................... 252
7.2.7 Transfer Structure .......................................... 253
7.3 Cost Component View ............................................. 255
7.3.1 Cost Estimate Display .................................... 258
7.3.2 Overhead Calculation ....................................... 259
7.3.3 Other Components .......................................... 260
7.4 Organizational Units of Cost Components ..................... 261
  7.4.1 Main Cost Component Structure ...................... 262
  7.4.2 Auxiliary Cost Component Structure ................. 263
  7.4.3 Check Assignment to Organizational Units ...... 263
7.5 Cost Component Groups ............................................... 265
  7.5.1 Create Cost Component Groups ....................... 266
  7.5.2 Assign Groups to Cost Components ................. 267
  7.5.3 Assign Groups to Report Columns .................... 268
7.6 Summary ...................................................................... 271

8 Costing Variant Components ....................................... 273
  8.1 Define Costing Variant .................................................. 273
  8.2 Costing Type ................................................................. 275
    8.2.1 Price Update .................................................... 277
    8.2.2 Save Parameters ............................................... 280
    8.2.3 Miscellaneous .................................................. 282
  8.3 Valuation Variant .......................................................... 285
    8.3.1 Material Valuation ............................................ 286
    8.3.2 Activity Types and Processes ......................... 295
    8.3.3 Subcontracting .................................................. 299
    8.3.4 External Processing .......................................... 301
    8.3.5 Overhead ......................................................... 304
    8.3.6 Miscellaneous .................................................. 305
  8.4 Date Control ................................................................. 308
    8.4.1 Costing Date From ........................................... 309
    8.4.2 Costing Date To ................................................ 310
    8.4.3 Quantity Structure Date ................................... 310
    8.4.4 Valuation Date ................................................. 310
  8.5 Quantity Structure Control ............................................ 311
    8.5.1 BOM .............................................................. 312
    8.5.2 Routing .......................................................... 319
  8.6 Transfer Control ............................................................ 322
    8.6.1 Single-Plant ..................................................... 323
    8.6.2 Cross-Plant ..................................................... 326
  8.7 Reference Variant .......................................................... 327
  8.8 Summary ...................................................................... 330
# Costing Variant Tabs

9. Control ........................................................................... 333
9.2 Quantity Structure ......................................................... 334
  9.2.1 Pass On Lot Size ................................................... 335
  9.2.2 Ignore Product Cost Estimate without Quantity Structure ................................................... 336
  9.2.3 Transfer Control Can Be Changed ......................... 337
  9.2.4 Transfer Active Standard Cost Estimate if Material Costed with Errors ................................................... 340
  9.2.5 Transfer Cost Estimate of an Order BOM ................. 341
9.3 Additive Costs ............................................................... 342
  9.3.1 Additive Cost Components .................................... 342
  9.3.2 Include Additive Costs with Stock Transfers .......... 343
9.4 Update Tab ..................................................................... 344
  9.4.1 Saving Allowed .................................................... 344
  9.4.2 Save Error Log ....................................................... 345
  9.4.3 Defaults Can Be Changed by User .......................... 346
  9.4.4 Itemization ............................................................ 347
9.5 Assignments ................................................................. 348
  9.5.1 Cost Component Structure .................................... 348
  9.5.2 Costing Version ...................................................... 348
  9.5.3 Cost Component Split in Controlling Area Currency ................................................... 350
  9.5.4 Cross-Company Costing ....................................... 351
9.6 Miscellaneous .............................................................. 352
  9.6.1 Error Management ............................................... 352
  9.6.2 Parameters for Error Management ......................... 353
9.7 Summary ....................................................................... 354

# Standard Cost Estimate

10. Create Standard Cost Estimate ........................................ 356
  10.1 Costing Data ............................................................ 356
  10.2 Dates ........................................................................ 357
  10.3 Quantity Structure .................................................... 359
  10.4 Mark and Release .................................................... 361
  10.5 Costing Run .............................................................. 364
10.3.1 Costing Data .................................................... 364
10.3.2 Dates ............................................................... 366
10.3.3 Valuation ......................................................... 366
10.3.4 Costing Run Steps ............................................ 366
10.4 Summary .............................................................. 378

11 Preliminary Cost Estimate ............................................. 379
11.1 Create Preliminary Cost Estimate ............................ 379
11.2 Production Process ................................................. 382
11.3 Transfer Control ...................................................... 382
11.4 Mass Processing ...................................................... 385
11.5 Summary .............................................................. 386

12 Unit Cost Estimate ..................................................... 387
12.1 Base Planning Object ............................................. 387
  12.1.1 Item ............................................................. 388
  12.1.2 Category ......................................................... 389
  12.1.3 Resource ........................................................ 390
  12.1.4 Plant/Activity .................................................. 390
  12.1.5 Quantity ........................................................ 390
  12.1.6 Value – Total .................................................. 391
  12.1.7 Cost Element .................................................. 391
12.2 Material Cost Estimate Without Quantity Structure ....... 391
12.3 Summary .............................................................. 393

PART III Cost Object Controlling

13 Preliminary Costing .................................................. 397
13.1 Production Order Control ....................................... 398
  13.1.1 Costing Variant for Planned Costs ..................... 399
  13.1.2 Costing Variant for Actual Costs ....................... 400
  13.1.3 Costing Sheet ................................................ 401
  13.1.4 Overhead Key ................................................ 401
  13.1.5 Results Analysis Key ....................................... 401
13.1.6 Variance Key ..................................................... 401
13.1.7 Determine Plan Costs ....................................... 401
13.2 Display Planned Costs ........................................... 402
13.3 Summary ............................................................. 404

14 Simultaneous Costing ............................................... 405
14.1 Goods Movements .................................................. 405
14.1.1 Debits .............................................................. 405
14.1.2 Credits ............................................................. 409
14.2 Confirmations ........................................................ 412
14.2.1 Secondary Postings ........................................... 412
14.2.2 Create Production Order .................................. 413
14.2.3 Confirm Activities ............................................. 417
14.2.4 Default Activities .............................................. 419
14.2.5 Operation Sequence ......................................... 420
14.3 Report Costs .......................................................... 421
14.4 Summary ................................................................. 423

15 Overhead ................................................................. 425
15.1 Configuration .......................................................... 425
15.2 Overhead Period-End Processing .......................... 426
15.3 Summary ................................................................. 428

16 Work in Process ........................................................ 429
16.1 WIP Configuration .................................................. 430
16.1.1 Define Results Analysis Keys ............................. 430
16.1.2 Define Results Analysis Versions ....................... 431
16.1.3 Define Valuation Method (Target Costs) ............ 434
16.1.4 Define Valuation Variant for WIP and Scrap ..... 436
16.1.5 Assignment of Valuation Variant for WIP .......... 437
16.1.6 Define Line IDs ................................................ 438
16.1.7 Define Assignment ............................................ 439
16.1.8 Define Update .................................................. 440
16.1.9 Define Posting Rules for Settling WIP .......... 442
## 19 Special Topics

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.1</td>
<td>Sales Order Controlling</td>
<td>499</td>
</tr>
<tr>
<td>19.1.1</td>
<td>Configuration</td>
<td>500</td>
</tr>
<tr>
<td>19.1.2</td>
<td>Period-End Processing</td>
<td>508</td>
</tr>
<tr>
<td>19.2</td>
<td>Subcontracting</td>
<td>514</td>
</tr>
<tr>
<td>19.2.1</td>
<td>MRP 2 View</td>
<td>514</td>
</tr>
<tr>
<td>19.2.2</td>
<td>Purchase Order</td>
<td>515</td>
</tr>
<tr>
<td>19.2.3</td>
<td>Monitoring Stocks Provided to Vendor</td>
<td>516</td>
</tr>
<tr>
<td>19.2.4</td>
<td>Goods Receipt of End Product</td>
<td>518</td>
</tr>
<tr>
<td>19.3</td>
<td>Material Ledger</td>
<td>518</td>
</tr>
<tr>
<td>19.3.1</td>
<td>Multiple Currencies or Valuations</td>
<td>518</td>
</tr>
<tr>
<td>19.3.2</td>
<td>Actual Costing</td>
<td>519</td>
</tr>
<tr>
<td>19.3.3</td>
<td>Configuration</td>
<td>520</td>
</tr>
<tr>
<td>19.3.4</td>
<td>Period-End Processing</td>
<td>527</td>
</tr>
<tr>
<td>19.4</td>
<td>Delivery Costs</td>
<td>530</td>
</tr>
<tr>
<td>19.4.1</td>
<td>Purchased Material Consumption Account</td>
<td>530</td>
</tr>
<tr>
<td>19.4.2</td>
<td>Configure Costing Variant</td>
<td>531</td>
</tr>
<tr>
<td>19.4.3</td>
<td>Assign Conditions to Origin Groups</td>
<td>532</td>
</tr>
<tr>
<td>19.4.4</td>
<td>Assign Conditions to Purchasing Info Records</td>
<td>533</td>
</tr>
<tr>
<td>19.4.5</td>
<td>Assign Origin Groups to Cost Components</td>
<td>533</td>
</tr>
<tr>
<td>19.5</td>
<td>Templates</td>
<td>534</td>
</tr>
<tr>
<td>19.5.1</td>
<td>Define Environment</td>
<td>535</td>
</tr>
<tr>
<td>19.6</td>
<td>Mixed-Cost Estimate</td>
<td>536</td>
</tr>
<tr>
<td>19.6.1</td>
<td>Quantity Structure and Costing Version</td>
<td>537</td>
</tr>
<tr>
<td>19.6.2</td>
<td>Create Procurement Alternative</td>
<td>538</td>
</tr>
<tr>
<td>19.6.3</td>
<td>Define Mixing Ratios</td>
<td>539</td>
</tr>
<tr>
<td>19.6.4</td>
<td>Create a Mixed-Cost Estimate</td>
<td>540</td>
</tr>
<tr>
<td>19.7</td>
<td>Cost Estimate User Exits</td>
<td>542</td>
</tr>
<tr>
<td>19.7.1</td>
<td>Cross-Company Code Costing</td>
<td>543</td>
</tr>
<tr>
<td>19.7.2</td>
<td>Production Resource/Tool Costing</td>
<td>544</td>
</tr>
<tr>
<td>19.7.3</td>
<td>Bulk Material Costing</td>
<td>544</td>
</tr>
<tr>
<td>19.7.4</td>
<td>Material Valuation</td>
<td>545</td>
</tr>
<tr>
<td>19.7.5</td>
<td>Costing Reports</td>
<td>545</td>
</tr>
<tr>
<td>19.8</td>
<td>Summary</td>
<td>546</td>
</tr>
</tbody>
</table>
PART IV  Information System

## 20 Information System ................................................................. 551

20.1 Product Cost Planning ............................................................. 552
20.1.1 Analyze Costing Runs ..................................................... 552
20.1.2 List Material Cost Estimates ......................................... 556
20.1.3 Detailed Reports ............................................................... 557
20.1.4 Object Comparisons ........................................................ 557

20.2 Cost Object Controlling ......................................................... 561
20.2.1 Product Drilldown Reports .............................................. 562
20.2.2 Summarization Hierarchy Reports .................................. 567
20.2.3 Detailed Reports ............................................................... 574
20.2.4 Line Item Reports ............................................................. 577

20.3 Production Order Reports ....................................................... 578
20.3.1 Order Information System ............................................. 578
20.3.2 Order Selection ............................................................... 581

20.4 Cost Center Reports ............................................................... 583
20.5 Summary .............................................................................. 586

20.6 Book Summary ..................................................................... 587
20.6.1 Integrated Planning ......................................................... 587
20.6.2 Product Cost Planning ..................................................... 588
20.6.3 Cost Object Controlling .................................................. 589
20.6.4 Information System .......................................................... 589

20.7 Looking Ahead ...................................................................... 590

### Appendices .............................................................................. 593

A  Additional Resources .............................................................. 595
B  Bibliography ............................................................................ 599
C  Glossary .................................................................................. 601
D  The Author .............................................................................. 625

Index ........................................................................................... 627
Integrated planning allows you to plan production and procurement costs based on planned sales quantities.

2 Integrated Planning

Integrated planning allows you to take advantage of a fully integrated system such as an SAP system. You can enter a sales plan to determine a production plan and projected manufacturing costs. Together with cost center plan costs, this allows you to calculate planned activity rates and standard cost estimates, which plan the cost of manufacture for each product. This process, also known as driver-based planning, allows you to plan costs based on sales quantities, which is a best practice in the manufacturing industry.

One of the main advantages of using the integrated planning functionality is that you can compare planned costs with actual costs, and you can determine the reason for the difference between them, which forms the basis for variance analysis. You can then use this as an iterative process to improve your period-by-period and year-by-year sales and production planning.

There are many alternatives for entering and processing plan data in SAP systems. In this chapter, we’ll examine entering sales data in Profitability Analysis (CO-PA), and then follow a typical flow from sales and operations planning (SOP) to long-term planning to Cost Center Accounting (CCA). A sales manager typically enters a sales plan, either into CO-PA or SOP, and analyzes multiple sales scenarios. A preferred sales plan is then converted into a production plan, which is then transferred to long-term planning.

The bill of material (BOM) and routing are then accessed by long-term planning to determine component procurement—and cost center capacity—requirements. A BOM is a hierarchical structure of components and subassemblies, whereas a routing lists operations and standard values required to manufacture a finished product.

Read Chapter 5 for more information on BOMs and routings
Activity scheduled quantities are then transferred from long-term planning to CCA, where, together with cost center planning data, activity and overhead rates are calculated. Let’s start initial planning by entering a sales plan in CO-PA.

### 2.1 Profitability Analysis

Sales managers can enter the quantity of finished products they expect to sell in future budget periods with Transaction KEPM or by following the menu path Accounting • Controlling • Profitability Analysis • Planning • Edit Planning Data. Enter the operating concern and press **Enter** to display the screen shown in Figure 2.1.

![Figure 2.1 Planning Package for CO-PA Planning](image)

Expand **Planning Levels IDES100** and double-click planning package IDES100 to display **Planning Methods** in the lower left of the screen. Expand the **Enter Planning Data** node, and then double-click IDES100 to enter planning data on the right side of the screen.

After you’ve entered sales planning data in CO-PA, you can do one of the following:

- Transfer quantities to SOP (or other components) by following the menu path Accounting • Controlling • Profitability Analysis • Planning • Integrated Planning.
Create a planning scenario with Transaction MS31 and access the CO-PA data directly with long-term planning, which we’ll discuss further in Section 2.3.

We’ll follow an example of transferring CO-PA data to SOP so you can see this additional functionality.

### 2.2 Sales and Operations Planning

You can enter a sales plan for future periods and fiscal years directly into the SOP component, or you can transfer the data from other components such as CO-PA. The sales plan can be entered for a product group and disaggregated to lower members or entered directly for individual materials. The production plan is determined from the sales plan and then transferred from SOP to long-term planning. If the production plan is determined from the sales plan on a spreadsheet, it can be entered manually into planned independent requirements in demand management.

Enter a sales plan for a material into SOP with Transaction MC88 or by following the menu path Logistics • Production • SOP • Planning • For Material • Change. The data entry screen shown in Figure 2.2 is displayed.

<table>
<thead>
<tr>
<th>Change Rough-Cut Plan</th>
</tr>
</thead>
<tbody>
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</tr>
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<td>Plant: 0521</td>
</tr>
<tr>
<td>Version: A80 Active version</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOP Plan individual material</th>
<th>Un</th>
<th>W1002011</th>
<th>M052011</th>
<th>M1002011</th>
<th>M1112011</th>
<th>M1212011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales</td>
<td>ER</td>
<td>10.080</td>
<td>18.806</td>
<td>18.806</td>
<td>18.806</td>
<td></td>
</tr>
<tr>
<td>Production</td>
<td>ER</td>
<td>10.080</td>
<td>18.806</td>
<td>18.806</td>
<td>18.806</td>
<td></td>
</tr>
<tr>
<td>Stock level</td>
<td>ER</td>
<td>10.080</td>
<td>18.806</td>
<td>18.806</td>
<td>18.806</td>
<td></td>
</tr>
<tr>
<td>Target stock level</td>
<td>ER</td>
<td>10.080</td>
<td>18.806</td>
<td>18.806</td>
<td>18.806</td>
<td></td>
</tr>
<tr>
<td>Days' supply</td>
<td>***</td>
<td>21</td>
<td>21</td>
<td>26</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Target days' supply</td>
<td>***</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Figure 2.2** Sales and Operations Planning Entry Screen
Sales plan quantities are entered in the \textit{Sales} row, and production plan quantities are entered in the \textit{Production} row. Figure 2.2 displays an example of the production plan offset one month forward in time from the sales plan to help ensure that sales plan delivery dates are met. The production plan may also need to be different from the sales plan due to known production capacity requirements.

\begin{table}[h]
\centering
\begin{tabular}{|l|l|}
\hline
Material & 10000 \\
Plant & 0021 \\
Version & A00 \\
\hline
\end{tabular}
\caption{Transfer Planning Data to Demand Management}
\end{table}

\textbf{Example}

If the sales plan is to sell a quantity of 40 in month 12/2011, you may need to adjust the production plan to manufacture a quantity of 10,000 in the four preceding months.

After the production plan is determined, it is transferred to demand management with Transaction MC74 or by following the menu path LOGISTICS \textbullet{} PRODUCTION \textbullet{} SOP \textbullet{} PLANNING \textbullet{} FOR MATERIAL \textbullet{} TRANSFER MATERIAL TO DEMAND MANAGEMENT. The screen shown in Figure 2.3 is displayed.

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{transfer_production_plant.png}
\caption{Transfer Production Plant to Demand Management}
\end{figure}
You transfer either the sales plan or production plan, for either an individual material or product group (PG) members by making the appropriate selection in the TRANSFER STRATEGY AND PERIOD section, and then clicking the TRANSFER NOW button.

Now that we’ve converted the sales plan into a production plan and transferred the production plan to demand management, let’s start working with this information in long-term planning.

### 2.3 Long-Term Planning

Long-term planning allows you to enter medium- to long-term production plans into the system. Medium-term production plans generally involve production quantities between three months and three years into the future. Long-term production plans can plan production quantities as far into the future as you need. The production plan represents planned independent requirements, which are used to meet two downstream prerequisites necessary to create cost estimates:

- They generate requirements for purchased items. These can be used to request vendor quotations, negotiate raw material prices, and ensure that purchasing info records are current. Purchasing info records are commonly used in cost estimates to determine the estimated planned price of components.

- They can be used to transfer scheduled activity requirements to cost centers. Cost center planned costs, divided by scheduled activity requirements, provide an estimate of the planned activity price used by cost estimates to determine labor costs.

You can transfer the production plan from SOP, as previously discussed in Section 2.2, or enter it directly with Transaction MD62 or by following the menu path LOGISTICS • PRODUCTION • PRODUCTION PLANNING • LONG-TERM PLANNING • PLANNED INDEPENDENT REQUIREMENTS • CHANGE. The data entry screen shown in Figure 2.4 is displayed.
Complete the fields in this screen, and press Enter to display the planned independent requirements planning table as shown in Figure 2.5.

The requirements displayed in Figure 2.5 correspond with the production plan transferred from SOP that was shown earlier in Figure 2.2. The requirements can be changed, or additional requirements can be entered directly. The A (version active) checkbox shown in Figure 2.5 determines if the requirements are relevant to operative material requirements planning (MRP). If relevant to operative MRP, requirements will result in the generation of planned orders, which can be converted to production orders.
for in-house production or purchase requisitions for external procurement. The system also explodes the BOM for assemblies produced in-house and generates dependent requirements for material components.

To generate dependent requirements, we first need to create a planning scenario that combines all of the parameters used in long-term planning.

### 2.3.1 Create Planning Scenario

The first step in using long-term planning is to define planning scenarios, which control how long-term planning is carried out. To compare different versions of planned independent requirements or plants, you can create various planning scenarios and then compare the planning results of these scenarios. You create a planning scenario with Transaction MS31 or by following the menu path **Logistics • Production • Production Planning • Long-Term Planning • Scenario • Create.** Give the planning scenario a name and description, and select the long-term planning indicator. Press `[Enter]` to display the screen shown in Figure 2.6.

![Figure 2.6 Planning Scenario Details](image)

Assign a version for the planned independent requirements by clicking the **Planned Independent Requirements** button and a version for the plants by clicking the **Plants** button. After you’ve checked the **Control parameters**, release the planning scenario for planning by clicking the **Release + Save** button.
After you’ve released the planning scenario, you can only change the allocation of the planned independent requirements versions. Only released planning scenarios can be used in a long-term planning run.

Click any of the checkboxes in this screen, and press \( \text{F1} \) to display detailed information. The \text{Consider sales orders} checkbox is of particular importance because it determines whether sales orders are taken into account in long-term planning. Sales orders are automatically copied from operative planning and cannot be changed in long-term planning. The customer requirements from operative planning consume planned independent requirements in long-term planning. If you do not select this checkbox, only planned independent requirements are taken into account. You can use this checkbox for scenario planning.

**Example**

Government defense contracts can extend many years into the future, long before sales orders are created. You determine production planning requirements by entering planned independent requirements in place of future sales orders. If you select the \text{Consider sales orders} checkbox in Figure 2.6, sales orders that are created in the future automatically consume the planned independent requirements, which were manually entered. This avoids the need to manually remove planned independent requirements as sales orders are created.

Now that we’ve created a planned scenario, we are ready to run and evaluate long-term MRP and send the results to the purchasing information system.

### 2.3.2 Long-Term Planning Run

You can carry out a long-term planning run either for an individual material or collectively for all materials in a plant. All planned independent requirements and sales orders, depending on your setting in Figure 2.6, within the planning scenario time frame are analyzed. The dependent requirements for all manufactured and purchased items are determined from the operative BOM. You can also carry out long-term planning with a separate BOM for long-term planning. Simulative dependent requirements and simulative planned orders are created for all components.
You can carry out a collective long-term planning run for a planning scenario by using Transaction MS01 for online processing, by using Transaction MSBT for background processing, or by following the menu path Logistics • Production • Production Planning • Long-Term Planning • Long-Term Planning • Planning Run. The screen shown in Figure 2.7 is displayed.

![Long-Term Planning Run](image)

<table>
<thead>
<tr>
<th>Planning Scenario</th>
<th>530</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope of planning</td>
<td></td>
</tr>
<tr>
<td>Plant</td>
<td>5321</td>
</tr>
</tbody>
</table>

**MRP control parameters**
- **Processing key**: NETCH
- **Create MRP list**: 2
- **Planning mode**: 1
- **Scheduling**: 1
- **Include firm planned orders**: 1

**Process control parameters**
- Parallel processing
- Display material list

**Figure 2.7** Collective Long-Term Planning Run Initial Screen

The **Planning Scenario** field determines which version of planned independent requirements the planning run will analyze. The planning scenario must be released before you can use it in a planning run.

You can restrict the selection with the **Scope of Planning** field and also by **Plant**. The usual procedure is to run MRP for the entire plant. This is often a batch job run at night, although you may also run it online. You can also restrict MRP processing time with the following processing keys:

- **NETCH (net change)**
  Allows you to restrict MRP processing time by only analyzing materials that have undergone a planning-relevant "change" since the last planning run, such as sales order entry, purchase order entry, or stock release.
NETPL (net change)
Restricts the planning run by planning horizon. Any changes made outside the planning horizon will not be considered in the planning run.

NEUPL (regenerative planning)
Disregards whether planning-relevant changes were made to the material. All materials with an MRP-relevant planning type in the material master MRP1 view are processed.

You can choose whether or not to create an MRP list that displays the results of the last planning run for a material. It remains unchanged until the next MRP run. The MRP list contains exception messages that can assist the planner. Exception messages indicate, for example, whether an order should be postponed or that the safety stock quantity has been exceeded.

After you have reviewed all of the planning run parameters, press Enter to start the planning run. When the planning run is complete, you will see a results screen listing statistics and parameters of the planning run. If you chose to create an MRP list in the selection screen in Figure 2.7, then you will also see a list of materials included at the top of the planning run results screen, as shown in Figure 2.8.

Click an individual material in the MATERIAL column, and then click each of the three buttons at the top of the screen in turn to produce the following results:

MRP list
Directs you to a list of the simulative planned orders created for that material during the last planning run.
CURR.LIST
Directs you to the stock/requirements list, which is a dynamic list displaying the current status of stocks, requirements, and receipts. Changes are immediately visible as soon as the stock/requirements list is called up or the elements are read from the database using the refresh function in the stock/requirements list.

EXCEPTGRP
Displays a list of definitions of the exception messages for each of the eight SELECTION GROUP columns, as shown in Figure 2.9. Exception messages are created during the planning run and are analyzed by the MRP controller.

<table>
<thead>
<tr>
<th>SelGr</th>
<th>Exc.</th>
<th>Exception Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50</td>
<td>No BOM exists</td>
</tr>
<tr>
<td>52</td>
<td>No BOM selected</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>No BOM explosion due to missing config</td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>Phantom assembly not exploded</td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>Scheduling: Master data inconsistent</td>
<td></td>
</tr>
</tbody>
</table>

Figure 2.9 Definition of Planning Run Exception Messages

You can display the long-term MRP list at any time by using Transaction MS05 for an individual material, by using Transaction MS06 for a collective display, or by following menu path LOGISTICS • PRODUCTION • PRODUCTION PLANNING • LONG-TERM PLANNING • EVALUATIONS.

Now that we've executed a planning run and evaluated the results, let's look at how to transfer the results to the purchasing information system and CCA.

2.3.3 Transfer Requirements to Purchasing

Long-term MRP generates simulative planned orders based on planned independent requirements. Simulative planned orders are not converted into purchase requisitions or production orders, and are for planning purposes only. Simulative data for external procurement can be transferred to the purchasing information system and evaluated for future purchasing requirements.
This information can be used as the basis for generating vendor requests for quotations (RFQs), negotiating raw material prices, and ensuring that purchasing info records are current. Updated purchasing info records are then used by cost estimates as the basis for determining raw material purchase prices.

You can transfer long-term planning data to the purchasing information system with Transaction MS70 or by following the menu path LOGISTICS • PRODUCTION • PRODUCTION PLANNING • LONG-TERM PLANNING • EVALUATIONS • PURCHASING INFORMATION SYSTEM • SET UP DATA. The screen shown in Figure 2.10 is displayed.

![Set Up Purchasing Info Data from Long-Term Planning](image)

**Figure 2.10** Set Up Purchasing Info Data from Long-Term Planning

The VERSION INFO STRUCTURE S012 field allows you to determine the receiving plan version of the purchasing plan data. If you do not enter a version, the system uses the planning scenario as the planning version number. You can also choose how the purchase order value is calculated, in the **ORD.VALUE CALCULATION** section. Complete the selection screen, and click the execute icon to run the transaction. Figure 2.11 shows an example of messages displayed after running Transaction MS70.

The messages indicate the quantity of information transferred. You can also run a report on long-term planning purchasing data with Transaction
MCEC or by following the menu path Logistics • Production • Production Planning • Long-Term Planning • Evaluations • Purchasing Information System • Material. The selection screen shown in Figure 2.12 is displayed.

Set Up Purchasing Info Data from Long-Term Planning

```
Planning Scenario: 030
Number of Evaluated Plant Materials: 1,024
Number of Evaluated Planned Orders (External Procurement): 4,584
```

Figure 2.11  Set Up Purchasing Info Data from Long-Term Planning

Long-Term Planning - Material Analysis: Selection

```
Planning Scenario: 030

Ord. value calculation
- Purch Info. Record
- Standard/Min. Avg. Price
- New Planned Price
- Planning Price

Material Organization: 0801
Plant: 0821
```

Figure 2.12  Purchasing Information System Selection Screen

The Planning Scenario field allows you to choose the long-term planning scenario to base the analysis on. You can choose how the purchase order value is calculated in the Ord. Value Calculation section. Complete the selection screen, and click the execute icon. Figure 2.13 shows an example of the data displayed.
Figure 2.13 Purchasing Information System Data

This report provides information on future purchasing requirements. You can display purchasing requirements per period by clicking the PO value column header and then the time series (lightning bolt) icon shown in Figure 2.13. An example of the output screen is displayed in Figure 2.14.

Click the icon (two squares) to the right of PO value to toggle among purchase order value, quantity, and price. This provides useful data for obtaining vendor quotations for future requirements of purchased materials.

Activated planned independent requirements are also visible in operative MRP. In addition to data transferred to the purchasing information system, the purchasing department has visibility of activated planned independent requirements through planned orders generated by operative MRP and purchase requisitions converted from planned orders. These also can be the basis for updating purchasing info records.
2.3.4 Transfer Activity Quantities to CCA

In addition to ensuring that purchasing info records are up to date, long-term planning activity quantities can be transferred to CCA. From the production plan for products, long-term MRP generates requirements for all lower-level components and work centers. The activity requirements are then transferred to corresponding cost centers with Transaction KSPP or via menu path Logistics • Production • Production Planning • Long-Term Planning • Environment • Activity Requirement • Transfer to Cost Centers. The screen shown in Figure 2.15 is displayed.

![Transfer Planned Activity Requirements](image)

**Figure 2.15** Transfer Planned Activity Requirements Selection Screen

This selection screen allows you to enter the parameters of the activity quantities to send to CCA. Because you are interested in activity quantities sent to cost centers and activity types, select the corresponding radio button in the Level of detail: Output lists section. Complete the selection screen, and click the Transfer control button, or run Transaction OMIK. Figure 2.16 shows the next screen that is displayed.
Each line in Figure 2.16 corresponds to a controlling version. Versions are used to carry out scenario testing with different cost center plans, activity prices, and any other parameters in cost center planning. You can create as many versions as you like, but normally only version 0 contains both plan and actual data. To change transfer control settings, select a row, and click the details (magnifying glass) icon. Figure 2.17 shows the next screen that is displayed.

You transfer SOP, MRP, or long-term planning activity quantities to CCA by making the appropriate selection in the Transfer activity requirements from section in the screen shown in Figure 2.17. Press [F3] twice, and click the Execute button shown earlier in Figure 2.15 to start the transaction.

You can create only one transfer control per version. Figure 2.18 displays an example of the resulting list of activity requirements transferred to CCA. You display activity quantities per period by double-clicking any scheduled activity quantity shown in the Activity scheduled column. Scheduled
quantities transferred to CCA are displayed in the planned activity price entry screen, as we’ll discuss in Section 2.4.2.

<table>
<thead>
<tr>
<th>Cost Ctr</th>
<th>ActTyp</th>
<th>Activity SchedQty</th>
<th>UN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1011</td>
<td>RUN</td>
<td>9,223</td>
<td>020 HR</td>
</tr>
<tr>
<td>1022</td>
<td>SET</td>
<td>516</td>
<td>370 HR</td>
</tr>
<tr>
<td>1023</td>
<td>RUN</td>
<td>8,085</td>
<td>985 HR</td>
</tr>
<tr>
<td>1024</td>
<td>SET</td>
<td>532</td>
<td>927 HR</td>
</tr>
<tr>
<td>1025</td>
<td>EXP</td>
<td>47</td>
<td>3951 HR</td>
</tr>
<tr>
<td>1026</td>
<td>RUN</td>
<td>12,654</td>
<td>464 HR</td>
</tr>
<tr>
<td>1027</td>
<td>SET</td>
<td>344</td>
<td>833 HR</td>
</tr>
<tr>
<td>1028</td>
<td>RUN</td>
<td>35,522</td>
<td>500 HR</td>
</tr>
<tr>
<td>1029</td>
<td>SET</td>
<td>574</td>
<td>050 HR</td>
</tr>
<tr>
<td>1030</td>
<td>RUN</td>
<td>7,287</td>
<td>232 HR</td>
</tr>
<tr>
<td>1031</td>
<td>SET</td>
<td>1,358</td>
<td>050 HR</td>
</tr>
<tr>
<td>1032</td>
<td>MAC</td>
<td>20,589</td>
<td>130 HR</td>
</tr>
<tr>
<td>1040</td>
<td>RUN</td>
<td>13</td>
<td>319 HR</td>
</tr>
<tr>
<td>1041</td>
<td>SET</td>
<td>21</td>
<td>250 HR</td>
</tr>
<tr>
<td>1042</td>
<td>RUN</td>
<td>11,389</td>
<td>245 HR</td>
</tr>
<tr>
<td>1043</td>
<td>SET</td>
<td>939</td>
<td>319 HR</td>
</tr>
<tr>
<td>1044</td>
<td>RUN</td>
<td>1,493</td>
<td>750 HR</td>
</tr>
<tr>
<td>1045</td>
<td>SET</td>
<td>68</td>
<td>250 HR</td>
</tr>
</tbody>
</table>

*Total* |                | 111,089            | 369 HR |

Figure 2.18 Transfer Planned Activity Requirements

In long-term planning, we determined the component purchasing requirements and transferred them to the purchasing information system. We also determined the scheduled activity requirements and transferred them to CCA. The next step in integrated planning is to carry out cost element planning, and then, using scheduled quantities transferred from long-term planning, calculate the planned activity rate required by cost estimates to determine activity costs.

### 2.4 Cost Center Planning

Cost center planning meets two requirements for variance analysis:

- Cost element planning functions as a benchmark for comparison with actual costs as they occur. This analysis provides a measure of cost center manager performance.

- Dividing cost center planned and activity costs by the planned activity quantity provides an estimate of the planned activity rate, which is needed by cost estimates to determine labor and activity costs.
Let’s examine each of these points in further detail in the following sections.

### 2.4.1 Cost Element Planning

You enter the plan for primary costs by primary cost element, corresponding to a general ledger (GL) expense account. Examples are planned payroll and depreciation costs against corresponding cost elements for each cost center.

Determining planned workload (activity quantities) of production cost centers for the following fiscal year is a desirable prerequisite for cost center planning. Activity quantities are necessary to determine variable costs such as wages and energy. Planned activity quantities are determined from work center loads resulting from the production plan, which is in turn determined from the sales plan. You can transfer scheduled activity quantities from SOP, MRP, or long-term planning to cost center planning. You then convert the scheduled activity quantities into planned activity quantities using plan reconciliation.

You enter a primary cost plan for a cost center with Transaction KP06 or by following the menu path ACCOUNTING • CONTROLLING • COST CENTER ACCOUNTING • PLANNING • COST AND ACTIVITY INPUTS • CHANGE. A selection screen is displayed, as shown in Figure 2.19.

![Cost Element Planning Selection Screen](image)
You may see different fields, depending on the planning layout selected. You can scroll through available planning layouts with the left- and right-pointing arrow icons.

Any number of versions can be created, for which planning data can be entered. In this example, we use version 0. Actual costs post to version 0, and this is the version compared with target costs during variance analysis. Complete the selection screen as follows:

1. Fill in the Version, From period, To period, and Fiscal year fields.
2. Leave the Activity Type field blank to plan for activity-independent costs.
3. Fill in the Cost Element field and click the overview (mountain range and sun) icon to display the screen shown in Figure 2.20.

![Figure 2.20 Cost Element Planning Screen for Cost Centers](image)

This screen allows you to enter cost center plan fixed costs per cost element. These are activity-independent costs, because we did not enter an activity in the Activity Type field in the screen shown in Figure 2.19. To carry out primary cost planning, enter the plan cost in the Plan fix costs in OC column. Click the period screen (lightning bolt) icon to plan costs at an individual period level, as necessary.

If an activity type is entered in the selection screen shown in Figure 2.19, both fixed and variable costs can be planned in the screen shown in Figure 2.20.

Several reports are available to view planning data. One such report can be viewed with Transaction KSBL or via the menu path Accounting • Controlling • Cost Center Accounting • Information System • Reports.
FOR COST CENTER ACCOUNTING • PLANNING REPORTS • COST CENTERS: PLANNING OVERVIEW. A selection screen is displayed, as shown in Figure 2.21.

![Figure 2.21 Cost Center Planning Report Selection Screen](image)

This selection screen allows you to make entries in the REPORT PARAMETERS section to filter the values in the output screen. Complete the selection screen, and click the EXECUTE button to start the transaction. Figure 2.22 shows an example of the plan data displayed.

![Figure 2.22 Cost Center Planning Overview Report](image)

This screen displays a summary view of planned primary costs for cost center 1600. Let’s examine how to calculate and enter activity rates.

### 2.4.2 Activity Price Planning

Determining the planned workload (activity quantities) of production cost centers for the next fiscal year is a best practice prerequisite for cost center planning. Activity quantities are necessary to determine variable
costs such as wages and energy. Planned activity quantities are determined from work center loads resulting from the production plan, which is in turn determined from the sales plan. You can transfer scheduled activity quantities from SOP, MRP, or long-term planning to cost center planning. You then convert the scheduled activity quantities into planned activity quantities using plan reconciliation.

After cost element costs have been planned for the next fiscal year (as discussed in the previous section), you can manually calculate and enter activity rates, or the system can automatically calculate them. Many companies calculate and enter planned activity rates manually for the first couple of years after system implementation. This allows them time to fine-tune master data and plan costs.

You enter plan activity prices for a cost center with Transaction KP26 or by following the menu path Accounting • Controlling • Cost Center Accounting • Planning • Activity Output/Prices • Change. A selection screen is displayed, as shown in Figure 2.23.

![Figure 2.23 Planned Activity Price Selection Screen](image)

This selection screen allows you to enter the version, time period, cost center, and activity type you want to plan. Complete the selection screen as follows:

1. Complete the Version, From period, To period, and Fiscal year fields.
2. Complete the **Cost Center** and **Activity Type** fields.

3. Click the overview icon to display the screen in Figure 2.24.

![Image](image_url)

**Figure 2.24** Planned Activity Price Entry Screen

In this screen, you enter plan activity quantity, capacity quantity, and plan fixed and variable activity prices. To do this, follow these three steps:

1. Complete the **Plan activity** and **Capacity** quantity fields.

2. Complete the **Fixed USD** and/or **Var USD** activity price fields.

3. Save your work.

The **Plan activity** quantity, entered in the second column in Figure 2.24, is required to automatically calculate the planned activity price. Another, less well-known, benefit of entering the planned activity quantity is that it appears at the bottom of the standard cost center Report S_ALR_87013611 – Cost Centers: Actual/Plan/Variance. You can then compare plan and actual activity quantities in the cost center report to analyze production and cost center variance.

The **Act. sched.** (scheduled activity quantity) column in Figure 2.24 was previously transferred from SOP, MRP, or long-term planning, as we discussed in Section 2.3.4. This field cannot be adjusted manually. You can use it to overwrite the planned activity quantity (the **Plan activity** column in Figure 2.24) with Transaction KPSI or by following the menu path **ACCOUNTING • CONTROLLING • COST CENTER ACCOUNTING • PLANNING • PLANNING AIDS • PLAN RECONCILIATION**. A selection screen is displayed, as shown in Figure 2.25.
This selection screen allows you to enter the parameters to choose which cost centers and periods will be updated with the scheduled activity quantity transferred from long-term planning. Complete the screen as follows:

1. Select either the All Cost Centers or Cost center group radio button.
2. Complete the Version, Period, and Fiscal Year fields.
3. Deselect the Test Run checkbox, and select the Detail Lists checkbox.
4. Click the execute icon to start the transaction.

Figure 2.26 shows an example of the data displayed.

The following points describe the columns in Figure 2.26:

- **Total plan activity** corresponds to the Plan activity column in Figure 2.24.
- **New plan activity** corresponds to the last column in Figure 2.24.
- **Activity difference** is the difference between the two columns.
When you execute plan reconciliation, the planned activity manually entered in the PLAN ACTIVITY column in Figure 2.24 is automatically overwritten with the scheduled activity from the last column in Figure 2.24.

Now that we’ve carried out cost element and activity type planning, you can automatically calculate the planned activity price with Transaction KSPI or by following the menu path ACCOUNTING • CONTROLLING • COST CENTER ACCOUNTING • PLANNING • ALLOCATIONS • PRICE CALCULATION. In the selection screen, you enter the version, time frame, and cost centers, and then click the execute icon.

Now that we’ve completed cost center planning, there are still some more steps to take in the integrated planning cycle. We’ll discuss these in the next section on final planning.

2.5 Final Planning

You can take some more planning steps to assist you in determining the accuracy of your initial planning in CO-PA. Let’s discuss these now.

2.5.1 Calculate Standard Costs

We’ve estimated future component procurement quantities in long-term planning and can access component quantities and prices in the purchasing information system.

We’ve also estimated future activity quantities in long-term planning, transferred this information to CCA, and calculated planned activity prices.

This information, together with the necessary master data and configuration setup we’ll discuss in following chapters, allows you to create standard cost estimates. These allow you to estimate projected procurement and manufacturing costs for components and finished goods and update inventory valuation based on these planned costs.
After you've created and released standard cost estimates, you can transfer this information to CO-PA for detailed margin analysis and reporting, as we'll discuss in the next section.

### 2.5.2 Transfer Standard Costs to CO-PA

You can transfer standard cost estimate cost component information to CO-PA using the valuation functionality. Refer back to the CO-PA plan data in Figure 2.1 after calculating standard cost estimates, and click the Valuate button to transfer the cost information. You can also display this data with standard CO-PA reports by running Transaction KE30 or by following the menu path Accounting • Controlling • Profitability Analysis • Information System • Execute Report. You can choose an existing report or create your own to compare planned sales and cost information.

### 2.6 Summary

In this chapter, we discussed the integrated planning functionality and scenarios. First, we looked at creating a sales plan in CO-PA. We then considered either creating a sales plan directly in SOP or transferring the plan from CO-PA. We converted the sales plan into a production plan that we transferred to demand planning as planned independent requirements.

We then ran long-term planning and generated planned dependent requirements based on BOM and routing information. Purchasing requirements were analyzed in the purchasing information system. Work center loads were transferred to CCA.

Cost center activity quantities transferred from long-term planning, together with cost element planning, allowed us to calculate planned activity prices. We then considered the final planning steps of creating standard cost estimates and using the valuation functionality in CO-PA for margin reporting on planned sales and cost information.
Now that we've considered integrated planning, we'll next examine the following:

- Controlling master data in Chapter 3
- Material master data in Chapter 4
- Logistics master data in Chapter 5

This information is a prerequisite to creating standard cost estimates, which we'll discuss in detail in Chapter 10.

**Note**

The material presented in this chapter outlines some basic procedures and best practices for CO-PA planning. More detailed information on this functionality can be found in the SAP PRESS book *Controlling with SAP—Practical Guide* (2012).
Index

A

ABAP program, 543
ABC indicator, 104
Account assignment
   Automatic, 70
   Default, 70
Account determination, 63
Accounting, 131
Account modifier, 133, 407
Accrual account, 145
Active pharmaceutical ingredient, 117
Activity
   Confirmation, 65, 67, 68, 411, 412
   Input planning, 95
   Plan, 95
   Price, 35, 46, 92
   Rate, 51
   Scheduled, 95
Activity-Based Costing (ABC), 534, 589
Activity-independent cost, 49
Activity price calculation, 253, 254
Activity price planning, 98
Activity quantity, 534
Activity quantity parameter, 45
Activity type, 49, 51, 59, 86, 295, 534
   Activity quantity, 91
   Activity unit, 88, 96
   Actual price indicator, 90
   Actual quantity set, 91
   Allocation cost element, 90
   Alternative output factor, 96
   Alternative output unit, 96
   Average price, 92
   Basic data, 87, 88
   Category, 88
   Change document, 97
   Confirmation, 534
   Cost center category, 88
   Description, 87
   Group, 99
   History, 96
   Indicator, 93
   Indirect allocation, 89
   Indirect determination, 89
   Lock indicator, 94
   Long text, 87
   Manual allocation, 89
   Manual entry, 89
   Multiple categories, 88
   No allocation, 89
   Output, 95
   Planning, 54
   Plan Price indicator, 90
   Plan quantity set, 91
   Predistribution of fixed costs, 93
   Price indicator, 90
   Scheduled activity, 91
   Sender, 94
   Standard category, 88
Actual cost component, 152
Actual costing, 135, 144, 145, 147, 519, 601, 609
   Activate, 526
   Period-end, 527
   Preliminary periodic unit price, 527
   Run, 528
Actual cost, 461
Additive cost estimate, 249
Allocation structure
   Account assignment category, 482
   Assessment, 478
   Assessment cost element, 481, 484
   Assignment, 479
   Cost element completeness, 479
   Cost element uniqueness, 479
   Overview screen, 479
   Sender, 478
   Settlement cost element, 484
   Settlement receiver, 482, 483
   Source, 480
   Source cost element, 480, 484
Alternative BOM, 110, 121
Alternative sequence, 122, 321
Alternative unit of measure, 103
API, 117

627
Application help, 591
Apportionment structure, 109, 165
Area of responsibility, 73
Assembly scrap, 106, 415
Automatic account assignment, 64, 70, 72
Automatic account determination, 407
Automating communication, 132
Auxiliary cost component
  Activated, 263
  Structure, 262, 271

B
Backflushing, 417
Balance sheet account, 623
Base, 226
Base planning object, 387
  Development process, 391
  Drag-and-drop, 393
  Explode, 392
  Item, 392
  Master data, 388
  Multilevel, 393
  Spreadsheet format, 388
Base unit of measure, 102, 415
Basic dates, 415
Batch, 134
Beginning inventory, 150
Beverage manufacturer, 535
Bill of material (see also BOM), 74
BOM, 161
  Administration, 168
  Alternative, 162, 317
  Application, 312
  Component, 163
  Component scrap, 165
  Co-product, 165
  Costed multilevel, 250, 268, 270
  Costing, 121, 316
  Costing relevancy, 167
  Document assignment, 169
  Fixed quantity, 165
  General item overview, 163
  Group, 121
  Item category, 164
  Item number, 163
  Item text, 167
  Material, 162
  Material component, 195
  Net ID checkbox, 165
  Operation scrap, 165
  Production, 122, 316
  Recursive, 166
  Text item, 165
  Usage, 162, 321
  Validity period, 169
BOM application
  Selection ID, 313
BOM item, 166
  Administration, 168
  Apportionment structure, 165
  Basic data, 163
  Bulk material, 168
  Category, 163, 164
  Change date, 169
  Component scrap, 165
  Costing relevancy, 167
  Creation date, 169
  Linked document, 170
  Number, 163
  Operation scrap, 165
  Production relevant checkbox, 167
  Quantity structure date, 169
  Recursiveness allowed, 166
  Status/long text, 166
  Validity period, 169
  Valuable component, 165
BOM usage, 121
Bottom line, 411
Bulk material, 109, 168, 544
BOM item, 544
  Cost center, 544
  Costing, 542
  Error message, 545
  Itemization, 545
  Overhead cost component, 544
Business area, 80, 199
Business process, 207
Business transaction
  External, 60
  Within controlling, 60
## Index

### C

- Calculate activity price, 254
- Calculation base, 117, 260
  - Possible entry, 260
- Capacity, 180
  - Available, 178
  - Button, 178
  - Category, 177
  - Header, 178
  - Labor, 177
  - Machine, 177
  - Machine outage, 177
  - Planning, 173
  - Pooled, 179
- Capacity category, 179
  - Scheduling, 179
- Cement tile, 166
- Chart of accounts, 68, 406, 409
- Company code, 204, 249, 261, 293, 407
- Company code currency, 136, 149
- Comparison value, 554
- Component
  - Overview, 416
  - Quantity, 54
- Component scrap, 113, 165
- Conditions, 290
- Condition table
  - Company code, 532
  - Condition type, 531
  - Origin group, 531
  - Valuation area, 532
- Condition type, 287, 292
  - Company code, 293
  - Duty, 293
  - Freight, 293
  - Insurance, 293
- Configurable material, 499
- Configure automatic postings
  - Documentation, 408, 434
- Confirmation, 126, 412
  - Activity, 470
  - Expected quantity, 418
  - Goods movement, 418
  - Labor, 471
  - Line item detail, 470

**Per operation, 421**
- Production order, 421
- Time event, 417
- Time ticket, 417
- Consolidated financial statement, 150
- Constant activity price, 92
- Consumption account, 405, 531
  - Identify, 531
- Contribution margin, 261
- Control cost, 461, 564
- Control key, 174, 175
  - Auto goods receipt, 175
  - Confirmation, 176
  - Cost indicator, 175
  - Detailed information, 175
  - External processing, 176
  - Overview, 175
  - Rework indicator, 175
- Controlling, 59, 101, 140, 161, 239
  - Area, 70, 74, 199, 544
  - Level, 205
  - Master data, 59
  - Standard reports, 65
- CO-PA
  - Plan data, 32
  - Valuation, 55
- Co-product, 165
  - Fixed-price, 125
  - Indicator, 109
- Cost
  - Accountant, 242, 250
  - Activity confirmation, 405
  - Actual, 31, 405, 421, 601
  - Administrative, 241, 249
  - Analysis, 250, 391
  - Analyze, 263
  - By period, 422
  - Categorizing, 260
  - Cost center, 420
  - Cumulated, 422
  - External processing, 195
  - Filter, 247
  - Fixed, 93, 269
  - Goods movement, 405
  - Initial planning, 387
  - Initial research, 391
Index

Labor, 35, 47
Lot size-independent, 106
Manually plan, 387
Manufacturing, 80, 206, 240, 242, 247
Miscellaneous, 253
Object, 60, 70
Ordering, 106
Other, 251
Overhead, 64, 425
Plan, 405
Planned, 355
Primary, 240, 241, 412, 425
Procure component, 355
Procurement, 241
Produce assembly, 355
Reconcile, 60
Rollup, 246
Sales and administration, 242
Secondary, 240
Storage, 106
Summarization, 250
Transportation, 343
Type, 60
Variable, 93, 244, 269
Cost center, 67, 73
Activate, 75
Activated status, 75
Activity price planning, 52
Activity type, 86
Address, 85
Administrative, 80, 88
Advanced functionality, 92
Advanced reporting, 68
Assessment, 99
Basic data, 75, 82
Block, 83
Business area, 80
Category, 79, 88
Change document, 86
Chart of accounts, 80
Communication, 85
Company code, 80
Control, 82
Currency, 81
Debit, 412
Default, 70
Department, 79
Description, 78
Distribution, 99
Drag and drop, 75
Formula planning, 84
Functional area, 80, 206, 2407
Group, 74, 77
Hierarchy area, 80
History, 73, 86, 97
Inactive status, 75
Input planning, 94
Line item report, 585
Lock checkbox, 83
Long text, 79
Manager, 47, 65
Master data, 74
Overhead, 67
Overhead rates, 85
Person responsible, 79
Plan activity quantity, 90
Plan reconciliation, 53
Planning, 47, 54
Primary Cost Planning, 94
Production, 48, 67, 412, 417
Profit center, 81, 615
Reassign, 78
Receiver, 93, 94
Record quantity checkbox, 82
Report, 52, 79
Restrict activity types, 79
Revenue, 83
Sender, 93, 94
Service, 93
Standard hierarchy, 74, 584
Standard report, 63
Target cost analysis, 82
Template, 83, 84
Total cost, 83
Under-absorption/over-absorption, 90, 411, 420
User responsible, 79
Variable cost, 93
Variance, 52
Work center, 184
Index

Cost Center Accounting (CCA), 32, 45, 46, 241
Cost component, 117, 247, 249, 266, 530
Assignment, 241
Attribute, 243
Blank entry, 251
Column, 268
Commercial inventory, 248
Compare, 250
Configuration, 239
Control section, 245
Cost component view, 255
Cost element, 251
Cost of goods manufactured, 246, 253
Cost roll up checkbox, 246
Cost summarization, 250, 268
Delta profit for group costing, 249
Details screen, 244
Display as columns, 242
Energy, 253
External procurement, 249
Filter, 247
Filter criteria, 249, 255
Group, 242, 250, 265
Group 1 field, 250, 268
Group 2 field, 250, 268
Group key, 266
Include all materials, 251
Increasing over time, 240
Individual, 267
Initial cost split indicator, 249
Inventory valuation, 246, 249
Labor, 251, 270
Material, 270, 545
Maximum number, 240
Not assigned, 251
Organizational unit, 261
Origin group, 251
Overhead, 270, 545
Primary, 253, 254
Sales and administration costs, 248
Source, 253
Split, 240
Structure, 117, 241, 243, 244
Subtotal, 268
Target, 253
Tax inventory, 248
Terminology, 239, 243
Total material group, 243
Transfer price surcharge, 249
Transfer structure, 241, 253
View, 242, 247, 248, 255
Cost component group, 265
Assign cost components, 266
Create, 266, 267
Existing, 266
Information message, 266
Key, 266
Maintain, 266
Maximum number, 266
Number, 267
Overview screen, 266
Report columns, 269
Summary, 250
Cost component split, 254
Auxiliary, 241, 534
Cost of goods manufactured, 253
Initial, 241
Main, 241, 534
Primary, 240, 253, 254, 262
Principal, 262
Cost component structure, 243, 249, 253, 261, 534
Activate source, 253
Active, 270
Active checkbox, 243
Assignment, 242
Auxiliary, 262, 263, 271
Check organizational unit, 263, 348
Company code, 261
Configuration, 243
Costing variant, 262
Different across plants, 261
Main, 262, 271
Masking, 262
Organizational unit, 255, 261
Overview screen, 243
Plant, 262
Source, 253
Cost component view, 255, 257
Calculation base, 259
Cost of goods sold, 260
Inventory valuation, 261
Index

Overhead calculation, 259, 282
Overview screen, 256
Possible entry, 259
Summarized, 268
Costed multilevel BOM, 250, 265, 270
Cost element, 49, 59, 60, 117, 228, 239, 249, 251, 428, 534
Assessment, 67
Attribute mix, 68
Basic data, 62
Category, 62
Category change, 63, 64
Change document, 73
Collective display, 71
Default, 90
Default account assignment, 70
Define attribute, 68
Description, 62, 66
Expense, 65
From, 251
Group, 67, 228
Indicator, 68
Masked, 439
Master data, 70
Name, 62
Numbering logic, 67
Physical inventory, 63
Planning, 47, 54, 55
Primary, 48, 60, 61, 62, 410, 411
Purchase price difference, 63
Range, 228, 251
Record quantity checkbox, 68
Secondary, 60, 62, 65, 237, 412
To, 251
Unit of measure field, 69
Valid from, 62
Valid to, 62
Cost estimate, 124, 247, 543
Additive, 241, 249, 342, 343
Automatic, 294
Compare, 559
Component, 335
Cost component, 293, 545, 561
Cost component view, 259
Costing data tab, 263
Create, 243
Current button, 557
Cost estimate, 124, 247, 543
Additive, 241, 249, 342, 343
Automatic, 294
Compare, 559
Component, 335
Cost component, 293, 545, 561
Cost component view, 259
Costing data tab, 263
Create, 243
Current button, 557
Custom report, 545
Details, 553
Display, 255
Display screen, 258
Enhancement, 542
Error, 340
Example report, 546
Future, 324
Higher-level, 337
Individual, 551
Integrity, 345
Itemization, 125, 292, 346, 347, 545
List, 551, 556
List reports, 250, 265
Log, 346
Lower-level, 337, 340
Menu bar, 545
Not assigned, 251
Period-based, 324
Preliminary, 388, 558
Raw material, 293
Release, 159, 295
Sales order, 336
Save error log, 345
Scale, 218
Source list, 223
Standard, 247, 249, 250, 261, 321, 340, 388, 558
Standard layout, 545
Status, 345
Total cost, 260, 283
Unit, 249, 294
User exit, 542
Without quantity structure, 125, 252, 336, 391
With quantity structure, 118, 393
Costing, 101
Preliminary, 425
Simultaneous, 425
Costing lot size, 124, 211, 335
Costing run, 59, 116, 124, 340, 356, 364
Allow marking, 374
Analysis, 371, 374, 552
Cockpit, 590
Compare, 554
Costing, 369

632
Costing data, 365
Costing level, 370
Costing sheet, 366
Create, 364
Data, 551
Dates, 366
Display errors only, 370
Exceptions, 554
Existing, 364
Highest-level assembly, 370
Inventory valuation, 372
Log, 371
Lowest-level material, 369
Maintain, 364
Mark, 374
Marking allowance, 374
Material master price, 555
Material overview, 368, 375
Other prices, 375
Parallel processing, 370
Parameter, 369, 375
Release, 375, 377
Selection, 366
Status, 369
Steps, 366, 551
Structural explosion, 368
Threshold value, 554
Valuation, 366
Valuation variant, 366
Costing sheet, 67, 117, 226, 397, 412, 534, 536
Calculation base, 227
Configuration, 226, 425
Cost element, 227
Costing variant, 234
Credit, 237
Current settings, 237
Default, 232
Dependency, 229
Fixed cost, 228
Origin group, 228
Overhead rate, 228
Percentage, 237
Quantity-based, 237
Sales order, 234
Variable cost, 228
Costing status
FR, 363, 377
VO, 362
Costing type, 259, 274
Additive cost estimate, 281
Group valuation, 278
Inventory valuation, 277
Legal valuation, 277
Miscellaneous, 282
Overhead, 259, 283
Parallel valuation, 279
Partner version, 283
Price update, 277
Profit center valuation, 279
SAP standard, 276
Save parameters, 280
Transfer pricing, 279
Valuation view, 277
Costing variant, 131, 141, 158, 261, 263, 270, 274, 531, 545
Actual, 199, 201, 400
Additive cost, 343
Assignments tab, 263, 270
Change transfer control, 337
Component, 333
Configurable product, 341
Configuration, 273, 333
Controlling area currency, 351
Control parameters, 275, 333
Control tab, 333
Cost component split, 346, 350
Cost component structure, 270
Costing type, 275, 276
Costing version, 348
Cross-company costing, 351
Customers, 341
Date control, 308
Error management, 353
Existing product design, 337
Highest-level material, 340
Make-to-order scenario, 341
New product development, 337
Overview, 275, 334
Pass on lot size, 335
Plan, 400
Planned, 199
PPC1, 274
PPP3, 201
PREM, 200
Product development, 278
Proposed improvement, 340
Prototyping, 337
Quantity structure control, 311
Quantity structure indicator, 336
Quantity structure tab, 334
Reference variant, 327
Sales order, 341
SAP standard, 274
Saving allowed, 344
Status, 340
Tabs, 333
Transfer control, 322, 338
Transfer cost estimate of order BOM, 341
Unit cost estimate, 337
Update tab, 344
Valuation variant, 275, 285
ZPCI, 274
Costing version, 540
Cost object, 60, 410
Default, 69
Cost of goods manufactured (COGM), 240, 253, 255
Cost of goods sold (COGS), 260, 261
Cost of sales, 65, 431
Accounts, 65
COS, 65
Customer, 65
Goods receipt, 65
Inventory, 65
Posting, 65
Shipped, 65
Cost of sales accounting, 81, 206
Cost viability, 131
Credit, 226, 410
Key, 237
Cross-company code costing, 543
Activate, 544
Current valuation, 544
Cumulative
Difference, 150
Inventory, 150
Currency, 136, 145, 147
Company code, 136, 149
Group, 150
Current
Period, 136
Planned price, 130
Standard price, 130
Valuation, 139

D

Data
Master, 59
Transactional, 88
Database update, 156
Data browser, 133, 531
Selection screen, 531
Data collection
Product drilldown report, 565
Summarization hierarchy, 572
Date control, 308
Costing date from, 309
Costing date to, 310
Manual entry checkbox, 309
Quantity structure date, 310
Valuation date, 310
Debit, 405
Default
Activity, 420
Activity quantity, 419
Yield, 419
Default account assignment, 69
Default values for buyers, 220
Assign, 220
Parameter ID EVO, 220
User profile, 220
Deletion flag
Additional information, 533
Delivery cost, 291, 530, 589
Cost component, 530, 589
Origin group, 530
Delivery date, 34
Delta profits, 249
Demand management, 34
Dependency field, 229
Dependent requirements
Collectively only, 113
Index

Individual and collective, 112
Individual only, 112
Detailed analysis, 421
Detailed planning, 126
Detailed report, 574
   Cost element detail, 575
   Source document, 575
   Variance, 574
Development process, 391
Direct activity allocation, 91
Direct update, 156
Discontinued material, 103
Display cost estimate, 242
Division, 139
Do not cost checkbox, 116
Driver-based planning, 31
Duty cost, 530, 589

E

Effective price, 216
Electricity, 412
Employee, 170
Energy, 48, 253
Enhancement, 543
   COPCP001, 543
   COPCP003, 544
   COPCP004, 545
   COPCP005, 545
   Local object, 543
   SAPLXCKA, 545
Environment, 535
   Available, 535
   Define, 535
   Hierarchy, 535
   Standard system, 535
Error message, 287
European implementation, 263
Example program code, 544
Existing product, 387
Expense, 65
   Analyzable, 65
   Controllable, 65
   Cost element, 65
   General ledger account, 60
   Primary, 65
   Type, 80
Expense type, 206
Externally procured, 544
External number, 206
External procurement, 37

F

Factory calendar ID, 178
FERT, 162
Field selection, 141
Field status group, 64
Financial Accounting (FI), 140
Finished goods, 162, 407, 409, 410
Fiscal year, 92, 254, 409
Fixed lot size, 105
Formula
   Indicator, 183
   Key, 182, 185
   Other, 183
   Processing, 182
   Setup, 180
   Teardown, 183
Freight charge, 241, 249
Freight cost, 530, 589
Function, 535
Functional area, 206
Future planned price, 129
Future price, 140, 141, 151

G

General ledger account, 132
Goods issue, 408
   Automatic, 417
Goods receipt, 126, 135, 616
   Automatic, 417
Gross price, 216
Gross profit, 411
Group counter, 122, 188
Group valuation, 151
Grouping code, 407
Index

H

HALB, 162

I

Include, 542
Info record update, 221
Information system, 209
  Cost center, 583
  Cost Object Controlling, 561
  Detailed report, 557, 561, 574
  Hierarchy structure, 562
  Line item report, 561, 577
  Management reporting, 577
  Material document, 562
  Material group, 561
  Object comparison, 557
  Order, 578
  Period-end processing, 562
  Product Cost Planning, 557
  Product group, 563
  Purchasing, 43
  Summarization analysis, 562
  Summarization hierarchy, 567
In-house production, 37
Initial cost planning, 387
Initial cost split, 249
Input quantity variance, 420
Insurance contribution, 241, 249
Integrated planning, 31, 47, 52, 53, 91
Internal
  Activity allocation, 67
  Order, 60, 431
  Profit, 149, 151, 249
  Settlement, 67
Inventory, 65, 405
  Beginning, 150
  Cumulative, 150
  Goods movement, 68
  Movement, 132, 407
  Valuation, 246, 261, 355, 536
Invoice receipt, 135
Item category, 390

J

Joint production, 109
  Process, 125

L

Labor, 250
Labor allocation, 412
Last price change, 142
Legal profit, 249
Legal valuation, 151
Lengths of break, 178
Line item report, 577
  Detailed report, 577
  Posting date range, 578
  Source document, 578
Lock checkbox, 83
Lock indicator, 95
Logistics master data, 223
Long-term planning, 31, 35, 47, 52, 53, 91
  Activity quantity, 45
  BOM, 38
  Exception message, 40
  Indicator, 37
  Parameter, 37
  Planning horizon, 40
  Planning scenario, 39
  Purchasing data, 42
  Run, 38
  Sales order, 38
  Scenario, 43
  Transfer control, 46
Lot size data, 104
Lot size range, 188
Lot size variance, 124

M

Main cost component structure, 262, 271
Make-to-order, 500
Manual cost, 342
Manually insert operation, 420
Manufacturing costs, 31
Manufacturing order, 67, 397
No revenue, 431
Margin analysis, 411
Gross profit, 411
Net profit, 411
Operating expense, 411
Operating profit, 411
Pretax profit, 411
Profit margin, 411
SG&A, 411
Marketing decision, 240
Marketing manager, 65
Market price, 154
Marking allowance, 374
Mark up, 249
Masking, 261
Master data, 59, 425, 499
Activity type, 86
Controlling, 59, 100, 239
Cost center, 74
Cost element, 59, 66
Error, 364
Logistics, 59, 239
Material, 59, 239
Statistical key figure, 99, 620
Material availability, 101, 107
Material ledger, 135, 137, 145, 151, 249, 518
Activate, 520
Activated indicator, 146
Actual BOM, 519
Actual costing, 144, 526
Actual costing run, 528
Actual price, 519
Additional local currency, 522
Assign currency type, 521
Assign plant, 529
Assign type, 526
Company code currency, 529
Company code currency type, 522
Consolidated inventory report, 144
Cumulative price difference, 528
Currency, 144
Currency and valuation profile, 524
Document, 145, 148, 519, 527
Exchange rate difference, 144
Finished product, 527
Foreign currency, 519
Global company, 144
Goods movement, 519
Historical exchange rate, 519
Inventory reporting, 527
Legal valuation, 522
Legal valuation approach, 527
Material consumption, 145, 519
Multilevel price determination, 529
Multiple currencies, 519
Multiple valuations, 144
One currency type, 527
Period-end processing, 527
Periodic unit price, 144, 519, 529
Price determination, 147
Price difference account, 528
Procurement process, 527
Purchased material, 527
Purchase price difference, 529
Single-level price determination, 529
Subassembly, 527
Transaction-based price determination, 519
Transfer pricing, 144
type, 525
Valuation, 519
Valuation approach, 144, 526
Variance, 519
Material master, 101, 143, 161, 287, 391
Accounting 1, 138
Accounting 2, 152
Costing 1, 109, 115, 536
Costing 2, 128
Lot size data, 104
MRP 1, 102, 514
MRP 2, 106, 514
MRP 4, 110
Views, 101
Material number, 119
Material origin checkbox, 119
Material price analysis
Button, 148
Category, 148, 527
Price determination structure, 148
Index

Screen, 148
Transaction document, 148, 527
Materials Management (MM), 261
Material type, 407
   FERT, 162
   HALB, 162
   ROH, 162
Mixed
   Costing checkbox, 542
   Price, 536
   Price variance, 537
Mixed-cost estimate, 536, 540
   Create, 537
   Inventory valuation, 536
   Production line, 536
   Vendor, 536
Mixed procurement cost, 536
Mixing ratio, 536, 539
MM period, 136
Moving average price, 134, 135, 137, 140
Material requirement planning (MRP), 52, 91, 101, 160
   Activity quantity, 46
   Controller, 41
   List, 40
   Long-term, 41, 45
   Operative, 36, 44
   Processing time, 39
Operating profit, 411
Operating rate, 93
Operation, 170
   Cost element, 194
   External, 194
   Final, 418
   First, 195
   Material component, 195
   Milestone, 176
   Net price, 195
   Overview, 416
   Purchasing info record, 194
   Scrap, 192, 611
   Sequence, 420
   Setup time, 180
   Subcontract, 193
Operations manager, 242, 250
Optimum lot-sizing procedure, 106
Order
   Category, 213, 582
   Selection, 213, 581
   Type, 213, 233, 397, 400, 582
Order information system, 578
   Layout, 580
   MRP controller, 579
   Operation, 579
   Order header, 579
   Production supervisor, 579
Ordering costs, 106
Order quantity, 419
Order status, 471
   Delivered, 471
   Technically complete, 471
Organizational unit, 261, 263
Origin group, 117, 239, 251, 293, 530
   Assign, 532
   Create, 251, 532
   Define, 252
   Key, 252
Outline agreement, 290
Overhead, 117, 168
   Accuracy, 118
   Activity type, 225
   Actual cost, 238
   Allocation, 534
   Calculation base, 117, 260
   Category, 67

NC machine, 122
Net ID indicator, 106
Net profit, 411
New product, 131, 387
No update, 156
Numbering logic, 67
Number series, 67

Obsolete material, 103
Operating concern, 32

N

O
Collective calculation, 426
Configuration, 425
Controlling area currency, 428
Cost, 225, 412, 534
Cost center, 67
Cost component view, 260
Costing type, 259
Date-dependent, 228
Detail lists indicator, 427
Dialog display indicator, 427
Fiscal year, 427
Group, 117, 536
Individual calculation, 426
Key, 203, 230, 401, 536
Maintenance, 118
Material, 260
Messages, 427
Object currency, 428
Parameters, 427
Payroll, 65
Period, 427
Plan cost, 238
Quantity-based, 235
Rate, 67, 85, 226, 536
Receiver, 428
Secondary cost element, 428
Selection screen, 426, 427
Semifinished product, 260
Senders, 428
System implementation, 427

Cost element, 490
Cost element group, 490
Fixed amount, 491
Overview screen, 488
Production variances, 488, 490
Value field, 487
Variable amount, 491
Variance category, 490
Variance reporting, 488
Payroll, 65, 412
Percentage overhead rates, 229
Period, 145
MM, 136
Tabs, 145
Period-end processing, 67, 499
Overhead, 425
Settlement, 492
Variance calculation, 453
Work in process (WIP), 429
Periodic unit price, 137, 147, 150
Physical inventory, 63
Plan
Activity, 54
Activity price, 52, 54
Activity quantity, 52
Activity rate, 31, 64
CO-PA, 31
Cost, 405
Cost center, 31, 49
Data, 31
Primary cost, 48
Production, 31, 33, 45
Reconciliation, 48, 53, 54, 91, 92, 95
Sales, 31, 33, 34
Planned
Order, 36, 44
Price, 130
Price 1, 131
Price 2, 131
Price 3, 131
Planner profile, 94
Planning
Data, 49
Layout, 49
Level, 32
Package, 32
Scenario, 37, 38, 42, 43

P

Parallel processing, 370
Parameter, 181
Partial costing, 322
Partner
Cost component split, 284
View, 285
Partner version, 284
Direct partner, 284
Partner, 284
Pass on lot size indicator, 113
PA transfer structure, 498
Accounting indicator, 490, 493
Assignment line, 488
Index

Strategy, 500
Table, 36
Variance, 454, 613
Version, 254
Plant, 70, 139, 151, 261, 262, 264
Plant-specific material status, 103
Valid from date, 104
Policies and procedures, 132
Pooled capacity, 178
Possible entries
   Activity type category, 88
   Activity type price indicator, 90
   Additive cost, 342
   Base, 555
   BOM status, 318
   BOM usage, 162, 313
   Calculation base, 260, 282
   Comparison value, 554
   Condition types, 293
   Confirmation, 176
   Cost center, 483
   Cost component view, 259
   Costing, 502
   Costing sheet, 304
   External processing, 176, 302
   Hierarchy level, 570
   Material master price, 555
   Material valuation strategy, 288
   Order category, 582
   Order type, 205, 582
   Pass on lot size, 335
   Preliminary cost estimate status, 208
   Process category, 538
   Product group type, 564
   Purchasing info record, 194
   Purchasing info record strategy, 289
   Quotation in purchasing, 301
   Reference cost estimate, 328
   Relevancy to costing, 306
   Requirements type, 500
   Results analysis methods, 445
   Rounding for component quants, 319
   Scheduling type, 415
   Selection method, 110
   Special procurement type, 515
   Strategy sequence, 159
   Subcontracting strategy, 300
   Task list type, 321
   Transfer control, 323, 328
   Valuation view, 299
   Posting origin, 60
   Predistribution of fixed costs, 93
   Preliminary cost estimate, 379, 509
   Controlling level, 382
   Cost estimate button, 380
   Costing data tab, 385
   Costing variant, 383
   Costs button, 380
   Create, 380
   Create collectively, 208
   Create individually, 208
   Lower-level material, 384
   Mass processing, 385
   Message, 386
   Most recent, 380
   Planning variance, 379
   Product cost collector, 379
   Production process, 379, 382
   Production variance, 379
   Production version, 379, 382
   Quantity structure, 382
   Strategy sequence, 383
   Transfer control, 382
   Valuate WIP and scrap, 385
   Preliminary costing, 397, 405
   Preliminary valuation price, 147
   Pretax profit, 411
   Previous
      Period, 142
      Planned price, 130
      Price, 142
      Year, 142
   Price
      Accuracy, 136, 194, 603, 613
      Activity, 241, 254, 355
      Actual, 137, 150, 355
      Analyzed, 155
      Calculate activity, 243, 254
      Calculation, 254
      Change document, 363
      Change material button, 156
      Commercial, 152, 261
      Compare market, 155
      Comparison, 156
Comparison button, 155
Condition, 216
Control, 134, 135, 150
Control field, 140
Future, 140, 141, 151
Last change, 142
Lowest, 155
Lowest purchase order, 155
Market, 154, 156
Market valuation, 157
Moving average, 134, 135, 140
New, 156
Periodic unit, 147, 149, 150
Planned, 130, 141, 356
Preliminary valuation, 147, 150
Previous, 142
Purchase, 241, 249, 355, 363
Purchasing info record, 364
Rapidly changing, 138
Release, 142
Stability, 135
Standard, 135, 137, 140, 141, 142, 150, 154, 261, 262
Tax, 152, 158, 261
Transfer, 149, 151, 249
Unit, 125, 136, 194, 360, 613
Update button, 157
Valuation, 151
Vendor, 340
Price determination, 137, 147
Possible entries, 147
Single-/multilevel, 147
Transaction-based, 147
Price difference, 70, 130
Account, 135
Markup, 294
Pricing, 260
Primary
Cost element, 65, 405, 410
Cost planning, 49
Credit, 410
Expense, 65
Process category, 538
Processing key, 39
Processing type, 494
Process order
Detailed analysis, 421

Information system, 398, 419
Procurement
Alternative, 536, 538, 540
Changing methods, 59
External, 249
Process, 527
Procurement type, 107, 108
External procurement, 107
In-house production, 107
Possible entries, 107
Special, 108
Product
Development, 387
Modified, 391
New, 391
Product cost collector, 60, 67, 196, 397, 410, 454, 574
Activity price, 201
Advantages, 197
Automatic account assignment, 209
BOM, 210
Business area, 199
Business process, 207
Characteristics, 205, 209
Company code, 204
Controlling level, 205, 209
Cost, 197, 209
Cost element detail, 213
Cost element report, 213
Costing lot size, 211
Costing sheet, 201, 202
Costing variant, 199
Data tab, 198
Description, 204
Detailed report, 209
Efficiency, 197
External number, 206
Functional area, 206
Goods receipt, 197
Header, 203
Information system, 197
Inventory, 197
Last change, 206
List, 212
Manufacturing order, 207
Material, 205, 210
Multiple periods, 197
Index

Order category 05, 213
Order-related manufacturing, 196
Order selection, 212
Order type, 202, 205, 213
Overhead key, 203
Periodic actual cost, 197
Planning plant, 210
Preliminary cost estimate, 199, 200, 208
Procurement alternative, 212
Production environment, 197
Production line, 211
Production order, 197
Production plant, 210
Production process, 205, 209
Production version, 205, 207, 210, 211
Profit center, 199
Range of material, 205
Reconciliation, 197
Repetitive manufacturing, 196
Results analysis key, 203
Routing, 210
Selection field, 212
Settlement profile, 205
Settlement rule, 209
Source document, 213
Standard report, 196
System status, 206
Time frame, 213
Valuation variant, 200
Value of scrap, 203
Variance, 197
Variance analysis, 213
Variance key, 203
Vendor quotation, 200
Work in process, 197
Product Cost Controlling, 160, 162, 171, 186, 271, 499
Product Cost Planning, 59, 140, 551
Product development phase, 131
Product drilldown report, 563
Configuration, 563
Cumulative, 567
Data collection, 565
Material group, 564
Periodic, 567
Product hierarchy, 564
Run, 566
Variance, 566
Product group, 33
Production, 132
BOM, 122
Campaign, 182
Line, 536
Order, 36
Overhead, 544
Plan, 31
Quantity, 124
Startup, 147
Step, 122
Variance, 454
Version, 123, 126, 205, 211, 536
Production order, 61, 407, 410
Automatic goods receipt, 417
Backflushing, 417
Basic dates, 415
Components overview, 416
Confirmation, 403, 418
Control tab, 399
Costing sheet, 401
Costing variant, 399
Create, 413
Credit, 404
Default value, 400
Detailed analysis, 421
Determine plan cost, 401
Goods issue, 403, 407
Information system, 398, 419, 578
List, 399
Operation overview, 416
Order type, 400
Overhead, 403
Overhead key, 401
Plan cost, 399
Preliminary cost estimate, 404
Release, 416
Repair, 413
Results analysis key, 401
Return of components, 410
Rework, 413
Save, 402
Scheduling type, 415
Scrap, 401
Scrap portion, 415
Secondary credit, 410
Settlement, 410
Type, 419
Valuation variant, 400
Variance, 411
Variance key, 401
Production output account, 410
Production process, 225
Production resource, 544
Cost, 544
Cost components, 544
Cost estimate, 544
Enhancement, 544
Example program code, 544
Flat rate, 544
Operating resource, 544
Plant maintenance, 544
Tool, 544
Production routing, 64
Production variance, 615, 621
Production version, 123, 126, 317
Apportionment structure, 128
Basic data, 126
Bill of material, 127
Detail, 126
Overview, 126
Planning data, 126
Planning level, 126
Profitability Analysis (CO-PA), 31, 65, 81, 240, 261, 263, 410, 563, 618
Profit and loss account, 429, 623
Profit center, 81, 249
Dummy, 81, 199
Manager, 65
Product cost collector, 199
Responsible manager, 199
Profit Center Accounting (PCA), 65, 81, 120, 199
Activate, 81, 199
Parallel postings, 65
Profit margin, 411
Project System (PS), 60
Purchased materials, 531
Delivery cost, 530, 589
Origin group, 532
Valuation class, 531
Purchase order, 155, 220, 290
Price, 44
Quantity, 44
Value, 42, 44
Purchase price
Estimated, 131
Purchase price variance (PPV), 135
Purchase quantity, 124
Purchase requisition, 37
Purchasing, 131, 132
Department, 44
Future requirement, 44
Information system, 43, 44
Planning scenario, 42
RFQ, 42
Purchasing document, 219
Long standing, 219
Scheduling agreement, 219
Scope of list, 219
Type LP, 219
Category, 216, 303
Change, 219
Conditions, 195
Condition type, 531, 533
Consignment, 217
Cost estimate, 219
Costing lot size, 218
Create automatically, 219
Current, 42
Current price, 340
Discount, 216
Display, 533
Effective price, 216
Freight price, 533
Gross price, 216, 218, 290, 533
Last purchase order, 195, 291
Multiple vendor quotations, 216
Net price, 290
Pipeline, 217
Plant non-specific, 219
Plant-specific, 219
Price, 531
Price condition, 217
Purchase price, 214

643
Index

Purchase price variance, 219
Purchasing condition, 216, 290
Purchasing organization, 216
Purchasing organization data 1, 214
Scales, 218
Scheduling agreement, 219
Selection criteria, 214
Source list, 301
Standard, 217
Subcontract, 217, 515
Supplement, 216
Surcharge, 216
Updated, 42
Validity date, 217
Validity period, 219
Valuation variant, 220
Vendor, 214
Purchasing information system, 42, 47, 54

Reference operation set, 321
Reference variant, 327
Additive cost, 330
Material components, 330
Miscellaneous, 330
Overview, 328
Quantity structure, 327
Reevaluation, 329
Strategy sequence, 328
Transfer control, 328
Release, 159, 416
Release note, 590
Repair order, 413
Repetitive manufacturing, 126, 196
Report
Analyze costing runs, 552
Compare cost estimates, 558
Configuration, 568
Cost center, 583
Data collection, 571
Detailed, 557
Line item, 577
List cost estimates, 556
Order information system, 579
Order selection, 581
Product drilldown, 614
Production order, 578
Source document, 578, 583
Summarized, 562
Reporting requirement, 257
Request for quotation (RFQ), 42
Requirements
Activated planned independent, 44
Activity, 45, 46
Dependent, 37
Future, 44
Future purchasing, 41, 44
Individual, 335
Planned independent, 35, 37, 55
Production capacity, 34
Scheduled activity, 35, 47
Requirements class, 501
Assembly processing, 504
Automatic planning, 505
Condition type, 504
Configuration, 502
Costing, 502

Quality inspection operation, 420
Quantity
   Capacity, 52
   Plan activity, 52
Quantity structure, 120, 252, 266, 462
   Data, 115
   Existing, 391
   Target cost version, 462
Quantity structure control, 311
   BOM, 319
   BOM application, 312
   Routing, 319
   SAP standard, 311
Quotation price, 531

Rate-based planning, 126
Raw material, 162, 241, 407
Real posting, 70
Recursive checkbox, 166
Recursiveness, 166

644
Costing ID, 502
Costing method, 503
Costing sheet, 503
Costing variant, 503
Functional area, 508
Results analysis key, 508
Sales order costing, 505
Settlement profile, 507
Valuation, 506
Requirements type, 500
Possible entries, 500
Reset, 157
Results analysis
Basic settings, 431
Configuration, 443
COS, 443
Expert mode, 444
Key, 430, 446
Key default value, 431
Method, 445
Revenue, 443
Simplified mode, 444
Status control, 445
Valuation method, 443
Results analysis version
Advanced functionality, 431
Cost elements button, 433
Define, 431
Documentation, 434
Expert settings, 432
Extended control button, 433
Relevant to settlement, 432
Settlement rule, 432
Technical cost element, 432
Transfer to financial accounting, 432
Revenue, 63, 431
Revenue type, 80, 206
Rework order, 413
ROH, 162
Rough-cut planning, 126
Routing, 31, 126, 186, 420
Base quantity, 191
Company code, 188
Component allocation, 195
Costing relevancy, 192
External processing, 193
External vendor, 193
General data, 192
Group, 188
Header, 186, 187
Material assignment, 189
Material component, 195
Nonvalue added, 193
Operation details, 186, 190
Operation overview, 190
Operation scrap, 192
Plant, 188
Price unit, 194
Purchase order, 193
Selection, 320
Selection ID, 320
Selection screen, 187
Standard value, 192
Subcontract, 193
Type, 321
Unit of measure, 191

S
Sales
Manager, 31
Plan, 31
Quantity, 31
Sales and Distribution (SD), 260
Sales and operations planning (SOP), 31, 52, 91
Sales deduction, 63, 65
Sales manager, 65
Sales order, 234, 431
Cost estimate, 509
Costing indicator, 509
Line item, 431, 500
Nonvaluated inventory, 512
Procurement tab, 500
Profit margin, 509
Stock, 510
Valuated inventory, 509
Variance analysis, 514
Sales order controlling
Configuration, 500
Valuated stock, 590
Sales order costing, 125, 443, 499
Period-end processing, 508
Index

Sales order item, 260
Sales organization, 139
Sales revenue, 261
SBO Explorer, 265
Scales, 218
Scheduled activity, 54, 96
Scheduled activity quantity, 46, 53
Scheduling
  Backward, 415
  Basic dates, 415
  Detailed, 415
  Forward, 415
  Manufacturing orders, 179
  Rough-cut, 415
  Type, 415
Scheduling agreement, 219
  List, 219
  Purchasing document, 219
Scrap
  Assembly, 106
  Component, 113
  Input, 604
  Output, 602, 611
  Production statistics, 106
Selection ID, 321
Selection list, 213
Selection method, 110
  By explosion date, 111
  By order quantity, 111
  By production version, 111
Settlement, 454, 473, 618
  Actual cost, 475
  Allocation structure, 474, 478
  Amount, 477
  Background processing, 495
  Basic list, 495
  Check transaction data, 496
  Configuration, 473, 492
  Control parameters, 473
  Cost element, 479
  Cost of sales, 475
  Current period, 471
  Detail list indicator, 495
  Distribution rules, 474, 478
  Fiscal year, 494
  Largest amount, 497
  Message analysis, 496
Order type, 473
  Parameters, 493, 497
  PA transfer structure, 474
  Period-end closing, 492, 497
  Posting period, 494
  Processing options, 495
  Processing type, 494
  Product cost collector, 493
  Production order, 410
  Profile, 473
  Reconcile, 497
  Selection screen, 497
  Test run, 495
  Transaction data, 496
  Type, 471
  Value field, 492
Settlement profile, 497
  Can be settled, 476
  Default value, 476
  Deletion flag, 476
  Document type, 478
  Equivalence number, 477
  Indicator, 476
  Not for settlement, 476
  Order balance, 476
  Other parameters, 478
  PA transfer structure, 487
  Percentage costs, 477
  Profitability Analysis, 477
  Residence time, 478
  Settlement rule, 476
  Source structure, 485
  To be settled in full, 476
  Valid receivers, 478
Settlement rule, 128, 209
  Account assignment category, 482
  Distribution rule, 477
  Settlement receiver, 483
Setup, 173
Setup time, 124
Shop floor control, 578
Simulative planned order, 41
Simultaneous costing, 421, 423
Source, 156
Source document, 213
Source list, 221
  Allowed source of supply, 222
Blocked, 223
Cost estimate, 223
Fixed, 223
Purchasing info record, 223
Purchasing view, 222
Source structure
Accounting indicator, 487
Assignment, 486
Cost element, 487
Distribution rule, 485
Earned profit, 487
Good will, 487
Incurred cost, 487
Joint product, 485
Overview screen, 485
Sales volume, 487
Settlement procedure, 485
Simultaneous production, 485
Source, 487
Warranty, 487
Special procurement type, 108, 343
Costing, 123
Maintain, 124
Possible entries, 515
Transfer control, 544
Split valuation, 134
Standard activity time, 186
Standard cost estimate, 31, 59, 137, 169, 247, 355
Calculation, 357
Cost based on field, 360
Costed multilevel BOM, 359
Costing data tab, 270, 356
Costing lot size, 357
Costing variant, 356
Costing version, 357
Create, 129, 356, 379
Current, 128
Default dates, 357
Finish date, 358
Future, 129
Mark, 129, 356, 361
Material, 356
Overwrite, 362
Plant, 356
PPC1, 356
Quantity structure date, 358
Release, 130, 355, 356, 362
Release button, 362
Save, 129
Start date, 358
Transfer control, 357
Update frequency, 59
Valuation date, 358
Variance calculation, 358
Standard hierarchy, 74, 584
Alternate hierarchy, 76
Assigned, 76
Company structure, 76
Maintenance, 75
Node, 75
Swap, 76
Standard price, 135, 137, 140, 141, 405
Current, 363
Existing, 364
Future, 363
Proposed, 362
Update, 357
Standard value, 181
Statistical key figure, 99
Actual, 99
Category, 99
Employee, 100
Fixed value, 99
Long-distance call, 100
Name, 99
Plan, 99
Total value, 99
Tracing factor, 99
Unit of measure, 99
Statistical posting, 69, 83
Status selection profile, 570
Stock account, 137
Stock transfer, 343
Strategy sequence, 159
Subcontract, 193
Subcontracting, 514
Component, 516
Component quantity, 518
Consumption posting, 518
External processing, 518
Goods receipt, 518
Item category, 516
Monitor stock, 516
Index

Purchase order, 515
Purchasing info record, 515
Special procurement type, 515
Stock, 517

Summarization hierarchy
Alternate hierarchy, 574
Configuration, 567, 568
Data collection, 568, 571, 574
Data scope, 569
Exception rules, 574
Hierarchy level, 567, 568, 569
Hierarchy node, 571
Performance, 573
Status selection profile, 570
Total variance, 568
Summarized reporting, 552

T

Table T030, 406, 409
Target cost, 453
Version 0, 453, 460, 620
Version 1, 454, 461
Version 2, 454, 462
Target cost analysis, 68
Target cost version, 458, 460
Task list, 188
Description, 321
Group, 122
Group counter, 188
Lot size range, 188
Status, 189, 321
Type, 122, 321
Usage, 188
Tax, 411
Teardown, 183
Time, 183
Template, 84, 534, 589
Active, 536
Activity and business process allocation, 84
Assign, 536
Case scenario, 84
Complexity, 534
Cost center/activity type, 535
Costing sheet, 536

Environment, 535
Flexible alternative, 534
Formula, 84, 535
Formula planning, 84
Function, 84, 535
Material master, 536
Object, 535
Overhead key, 536
Plan activation, 536
Plan quantity, 535
Receiver object, 84
Sender object, 84
Table field, 535
Type, 535
Valuation variant, 536
Volume, 84, 535
Threshold amount, 554
Time series icon, 44
Total
Labor, 250
Stock, 139
Value, 140
Variance, 453, 621
Tracing factor, 99
Transaction data
Actual, 63, 88
Plan, 63, 88
Transfer control, 46, 322, 544
Collective requirements, 325
Costing type, 324
Costing version, 324
Current period, 324
Fiscal year, 324
Individual requirements, 325
PC01, 326
Period, 324
SAP standard, 322
Single-plant, 323
Strategy sequence, 323
Valuation variant, 324
Transfer costing data, 261
Transfer pricing, 144, 151
Transfer structure, 252, 253, 255, 263
Turnaround time, 131

648
U

Under-absorption/over-absorption, 621
Unit
Output, 96
Unit cost estimate
Category, 389
Copy existing structure, 392
Cost element, 391
Item, 388
Item total price, 391
Item total value, 391
Production phase, 393
Quantity, 390
Resource, 390
Unit costing, 119, 337
Unit of measure
Alternative, 102
Base, 102, 415
Conversion factor, 415
Update inventory valuation, 130
User exit, 542
ARAP program, 543
Bulk material, 545
Component, 543
Configure, 543
Cost estimate, 542
Costing production resource, 542
Costing report, 543, 545
Cross-company code costing, 542
Function module, 544
Include, 542
Material valuation, 545
Production resource, 544
Tool, 544
Valuation price, 545

V

Valid from, 140
Valuated goods receipt, 471
Valuation, 55, 145, 147
Approach, 149, 151
Area, 72
Category, 134
Current, 138
Data, 132, 142, 147
Group, 150, 151
Header record, 134
Inventory, 153, 246, 249, 261
Inventory report, 158
Legal, 149, 151
Method, 443
Multiple, 249
Price, 151, 544
Strategy, 135
Type, 134
Update inventory, 130
Variant, 118, 241
Valuation class, 132, 407, 531
Project stock, 133
Sales order stock, 133
Valuation strategy, 544
Standard, 545
U, 543, 545
Valuation variant, 220, 241, 274, 285, 397, 531, 536, 545, 622
Activity price, 295, 296
Activity type, 295
Actual price for period, 296
Additive cost, 287, 294
Average plan price, 296
Component materials, 287
Costing sheet, 200, 304
Delivery cost, 291
Effective price, 290
External processing, 302
Finished material overhead, 304
Freight, 292
Gross price, 290
Insurance, 292
Material valuation, 201, 287
Miscellaneous, 307
Moving average price, 201
Net price, 290
Origin group, 292
Overhead, 304
Overview, 285
Planned, 201
Plant, 287
Price factors, 305
Purchase order, 289

649
Index

Purchasing, 288
Purchasing info record, 288
Raw material overhead, 305
SAP standard, 285
Strategy sequence, 287, 295, 531
Subcontracting, 299, 302
Subcontracting indicator, 303
Subcontract material overhead, 305
Sub-strategy sequence, 531
Valuation variant for scrap, 461
Value field, 454, 473, 492
Variable cost, 93
Variance, 355, 416, 471
Analysis, 31, 49, 213, 355, 421
Calculation, 59, 410, 463, 466
Category, 453, 457, 463, 471, 472, 473, 623
Column, 469
Configuration, 455
Continual improvement, 463
Cost center, 52
Cost elements button, 468
Cumulative, 471
Define key, 455
Detail list indicator, 467
Formula for calculating, 468
Input, 463
Input price, 454, 463
Input quantity, 420, 464
Large, 468
Lot size, 357, 454, 465
Message, 468
Mixed-price, 464
Order status, 466
Original transaction, 471
Output, 464
Output price, 465
Period-end, 466
Planning, 454, 462, 613
Production, 454, 461, 487, 615, 621
Quantity structure, 462
Relevant to settlement, 453
Remaining, 457, 465
Remaining input, 464
Resource-usage, 464
Scrap, 457, 466, 471
Scrap checkbox, 458
Sequence, 472
Sort on columns, 467
Summarized reporting, 467
Target costs button, 469
Test run indicator, 467
Total, 410, 453, 461
Unfavorable, 468
Variant, 457
Variance key, 119
Default for plants, 457
Define, 455
Scrap indicator, 456
Write line item, 456
Variant products, 315
Vendor, 214, 536
External, 194
Quotation, 35, 44, 131, 161, 531
Version, 42, 46, 49, 51, 254
Fiscal year, 299
Info structure, 42
Legal valuation, 299
Planning, 254
Volume, 84, 535

W

Wages, 48
WIP at target, 437
With qty structure checkbox, 118
Work breakdown structure (WBS), 60, 431
Work center, 45, 170, 412
Activity type, 185
Activity unit, 185
Alternate activity quantities, 173
Alternate activity description, 185
Backflush checkbox, 172
Basic data, 171
Capacity, 177, 180
Capacity category, 177
Capacity planning, 173
Category, 171
Change, 171
Company code, 184
Confirmation, 172
Control key, 174, 193
Cost center, 184
Costing, 173, 183, 185
Default value, 174, 190
Display, 171
Employee, 170
Factory calendar, 178
Formula key, 181
Formula parameter, 181
Iterative process, 173
Key word, 173
Labor, 173
Labor capacity, 177
Length of break, 178
Load, 55
Low-value part, 172
Machine, 173
Machine capacity, 177
Material component, 172
Other formula, 183
Parameter definition, 181
Parameter details, 181
Parameter origin, 181
Parameter user-defined, 181
Performance efficiency, 173
Plant, 184
Processing formula, 182
Production line, 170
Production personnel, 183
Reference indicator, 176, 185
Rule for maintenance, 173
Scheduling, 179
Setup, 173
Setup formula, 180
Shift, 178
Standard value, 173, 177, 181
Standard value key, 172
Teardown formula, 183
Unit of measure, 177
Validity period, 184
Workflow, 132
Work in process (WIP), 471, 623
Actual, 435
Assign line ID, 441, 442
Assign valuation variant, 438
Calculation, 447, 452
Cancel, 429, 452, 471
Cannot be capitalized, 440
Capitalization, 431
Capitalize cost, 431
Change, 450
Configuration, 429
Confirmed yield, 451
Control tab, 430
Cost component, 442
Cost element, 439
Cost estimate, 436
Costing run, 436
Costs, 429
Data tab, 431
Define assignment, 439
Define line ID, 438
Define posting rule, 442
Define update, 440
Delivered to inventory, 429
Financial accounts, 442
Goods receipt quantity, 451
Incomplete assembly, 429
Inventory, 429
Masked cost center, 439
Masked cost element, 439
Operation, 451
Option to capitalize, 440
Order status, 435, 452
Period-end processing, 429
Preliminary cost estimate, 436, 447
Product cost by order, 452
Production cost, 429
RA category, 442
Repetitive manufacturing, 437
Requirement to capitalize, 439
Reserves, 438
Results analysis key, 430
Results analysis version, 431
Routing, 436
Routing structure, 436
Settlement, 442
Source cost element, 439
Standard cost estimate, 436
Target, 435
Technically complete, 452
Unrealized cost, 438
Valuation method, 434
Valuation variant, 436
Variance, 437
Index

Variance analysis, 448
WIP explanation button, 450
Propose, 419
Quantity, 418
To be confirmed, 419

Y

Yield
  Default, 419
  Previously confirmed, 419

Z

Zero balance, 410

652